Oracle® Communications Data Model

Reference

Release 11.3.2

E28440-05

September 2013

ORACLE®

Oracle Communications Data Model Reference Release 11.3.2

E28440-05

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Preface

The *Oracle Communications Data Model Reference* describes the data model structures for Oracle Communications Data Model. Since the needs of each Oracle Communications Data Model environment are unique, Oracle Communications Data Model is configurable so it can be modified to address each customer's needs.

Audience

The audience for the *Oracle Communications Data Model Reference* includes the following:

- IT specialists, who maintain and adjust Oracle Communications Data Model. They are assumed to have a strong foundation in Oracle Database and PL/SQL, Analytic Workspace Manager, and Oracle Business Intelligence Suite Enterprise Edition.
- Database administrators, who will administer the data warehouse and the database objects that store the data. They are assumed to understand Intra-ETL, which is used to transfer data from one format to another; as well as PL/SQL and the Oracle Database.
- Business analysts, including information and data analysts, market analysts and sales analysts.

This document is also intended for data modelers, data warehouse administrators, IT staff, and ETL developers.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information about Oracle Oracle Communications Data Model, see the following documents in the Oracle Oracle Communications Data Model documentation set:

- *Oracle Communications Data Model Installation Guide*
- *Oracle Communications Data Model Release Notes*
- *Oracle Communications Data Model Implementation and Operations Guide*
- *Oracle Communications Data Model Adapters and Analytics User's Guide*
- *Oracle Communications Data Model Adapters and Analytics Installation Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Part I

Logical and Physical Data Model

This part provides introductory information and details for the Oracle Communications Data Model Logical and Physical Data model.

Part I contains the following chapters:

1

Introducing Oracle Communications Data Model

This chapter introduces the Oracle Communications Data Model, which is a standards-based, pre-built approach to communications data warehousing.

This chapter includes the following sections:

Overview of Oracle Communications Data Model

Oracle Communications Data Model is a standards-based, pre-built approach to communications data warehousing enabling a communications company to realize the power of *insight* more quickly. Oracle Communications Data Model reduces costs for both immediate and on-going operations by leveraging out-of-box Oracle based Data Warehouse and Business Intelligence solutions, making world-class database and business intelligence technology solutions available with a communications specific data model.

Oracle Communications Data Model offers a single-vendor solution package that is tightly integrated with the business intelligence platform. With pre-built data mining, Oracle Online Analytical Processing (Oracle OLAP) and dimensional models, Oracle Communications Data Model provides you with industry-specific metrics and insights that you can act on immediately to improve your bottom line. These business intelligence solution offerings take advantage of Oracle's scalability and reliability, using Oracle's familiar optimization, parallelism, and performance engineering within the database.

Oracle Communications Data Model can be used in any application environment and is easily extendable.

Oracle Communications Data Model includes an exhaustive set of embedded advanced analytics, using Oracle's OLAP and data mining technology. You can take advantage of pre-built and pre-tested solution sets designed by industry experts that deliver relevant insights, are actionable, and aimed at improving both top-line and

bottom-line results. You can see summarized, aggregated information or quickly navigate to drill-down transaction details to better understand business issues.

For example, with Oracle Communications Data Model's out-of-the-box reports, you can generate reports for network analysis and churn analysis. Network analysis provides air-time, subscription, roaming, load@busy hour, under utilization and patterns reports. With churn analysis you can gain improved insight into churning that provides switching and termination trends, payment and recharging patterns, subscribers life cycle and profiling. You can add your own reports as well. Oracle Communications Data Model, combined with Oracle technology, provides all of the components required for a complete and extendable Communications Data Warehouse and Business Intelligence framework to eliminate complex and costly integration requirements, all designed to reduce your total cost of ownership.

What Are the Benefits of Using Oracle Communications Data Model?

With Oracle Communications Data Model, you can jump-start the design and implementation of a telecommunications data warehouse to quickly achieve a positive ROI for your data warehousing and business intelligence project with a predictable implementation effort.

Oracle Communications Data Model provides the following features:

- Query and Reporting for information: provides extraction of detailed and summary data.
- OLAP for data analysis: provides summaries, trends, and forecasts.
- Data Mining for insight and prediction: provides knowledge discovery of hidden patterns and insights.
- Oracle Communications Data Model is aligned with the TM Forum's Information Framework (SID) Release 12. For more information, see "About TM Forum Information Framework (SID) Alignment".

Oracle Communications Data Model provides an off-the-shelf data warehouse framework that is both adaptable and extendable. Alignment with communications industry standards ensures interoperability with other systems. The pre-built, pretuned data model with intelligent insight into detailed communications and market data, allows you to quickly gain value from your data warehousing effort, supports diverse analytical requirements, and assists in building future analytical applications. Fast, easy and predictable implementation reduces risks and enables you to achieve strategic value more rapidly by eliminating deployment delays and expenses associated with built-from-scratch or proprietary data warehouse solutions.

What Are the Components of Oracle Communications Data Model?

Oracle Communications Data Model includes the following components:

- Logical Model Foundation

  Chapter 2, "Logical Data Model Foundation" describes the logical data model.

- Logical Model Dimensions

  Chapter 3, "Logical Data Model Dimensions" describes the dimensions.

- Physical Model

Chapter 4, "Oracle Communications Data Model Physical Data Model" describes the physical data model. The logical to physical mapping is detailed in Chapter 5, "Oracle Communications Data Model Logical to Physical Mapping".

- Intra-ETL database packages and SQL scripts to extract, transform, and load (ETL) data from one layer of Oracle Communications Data Model to another.

  For detailed information on the intra-ETL packages and SQL scripts see Chapter 7, "Oracle Communications Data Model Intra-ETL".

- OLAP Models for Oracle Communications Data Model

  Chapter 8, "Oracle Communications Data Model OLAP Model Dimensions" and Chapter 9, "Oracle Communications Data Model OLAP Model Cubes" describe the OLAP Models.

- Pre-defined Data Mining Models

  See Chapter 10, "Oracle Communications Data Model Data Mining Models".

- Utility Scripts

  See Chapter 11, "Oracle Communications Data Model Utility Scripts".

- Reports and dashboards

  Chapter 12, "Oracle Communications Data Model Reports" shows the reports.

- Installation scripts

  For more information on installation, refer to the *Oracle Communications Data Model Installation Guide*.

What Oracle Technologies are in Oracle Communications Data Model

Several Oracle technologies are involved in building the infrastructure for telecommunications business intelligence.

Oracle Database with OLAP, Data Mining and Partitioning Option

Oracle Communications Data Model utilizes a complete Oracle technical stack. It leverages the following data warehousing features of the Oracle database: SQL model, compression, partitioning, advanced statistical functions, materialized views, data mining, and online analytical processing (OLAP).

> **Tip:** To achieve cost-effective scalability, availability, and reliability, you can consider using Oracle Real Application Clusters (Oracle RAC) and commodity hardware.

Oracle Development Tools

Use the Oracle tools shown in Table 1–1 to customize the predefined logical and physical models provided with Oracle Communications Data Model, or to populate the target relational tables, materialized views, or OLAP cubes.

Table 1–1 Oracle Development Tools Used with Oracle Communications Data Model

Name	Use
Oracle SQL Data Modeler	To create the logical model
SQL Developer or SQL*Plus	To create or modify database objects
Analytic Workspace Manager	To populate the target OLAP cubes

Oracle Business Intelligence Suite Enterprise Edition Presentation Tools

Oracle Business Intelligence Suite Enterprise Edition is a comprehensive suite of enterprise Business Intelligence products that delivers a full range of analysis and reporting capabilities. You can use Oracle Business Intelligence Suite Enterprise Edition Answers and Dashboard presentation tools to customize the predefined dashboard reports that are provided with Oracle Communications Data Model.

What is Oracle Communications Data Model

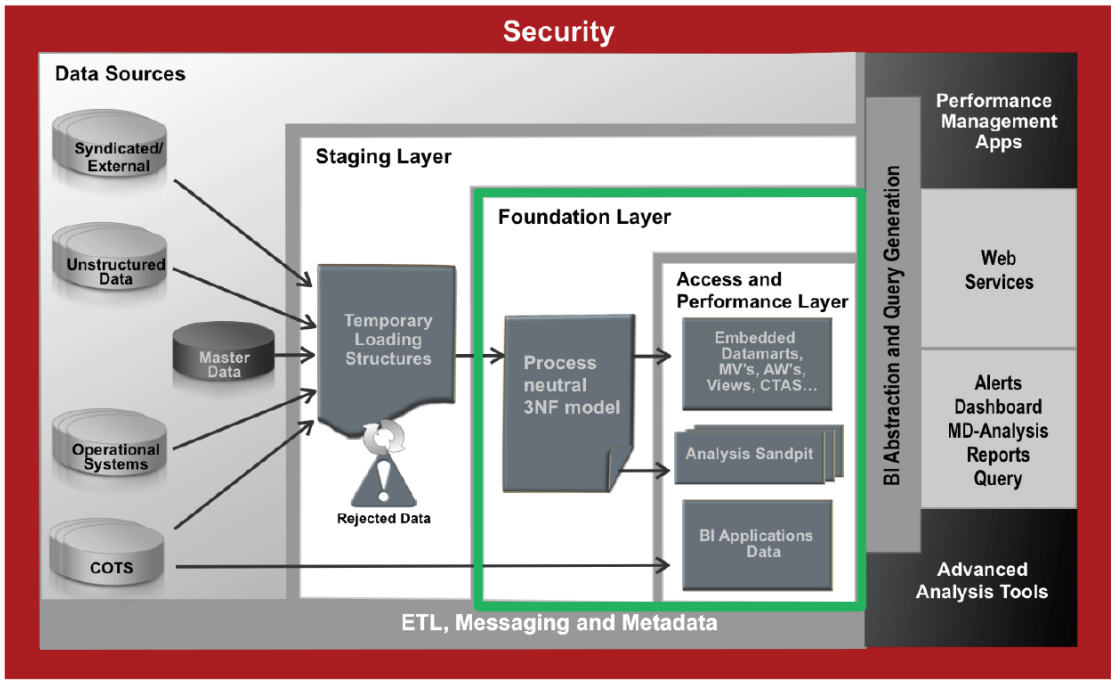
Oracle Communications Data Model leverages several Oracle Database data warehouse and Business Intelligence concepts that need to be clarified to understand the structure and use of Oracle Communications Data Model.

Oracle Communications Data Model provides "One Single True Vision of the Business". This unique architecture provides the Communications Service Provider (CSP) Flexibility, Agility, Scalability and Accuracy to obtain a real competitive advantage.

A typical enterprise data warehouse architecture, as shown in Figure 1–1, is composed of several layers ordered by the growing actionable value of the information in the warehouse:

- The Data Source layer (operational systems, Commercial-Off-The_shelf solution, unstructured and syndicated data, with possibly a Master Data Management system).
- The Staging layer: Typically used for transformation and data cleansing. It is also sometimes used as Operational Data Store, in particular for real-time operational reporting.
- The Foundation layer: It is typically used to store all transactions and reference data at the most atomic level. Best practices require that this level is 3rd normal form, to avoid data redundancy.
- The Access and Performance or Analytical layer: this is the layer optimized for the business end-users. It usually contains the star schema to answer business questions, and OLAP tools, and mining models.
- The Information (or Information Access) layer: This is the metadata layer and above, accessed by end-users through their Business Intelligence or reporting tools, or even external analytical tools (other OLAP or Mining tools). This layer is usually changeable by normal end-users (within their roles and responsibility). This is where the performance management applications provide their reports, where user roles, alerts, guided analytics, dashboards and reports are defined (usually by a specific BI administrator).
- The data movement from one layer to the other runs through ETL / ELT tools. One distinguishes the standard ETL/ELT (from data sources to foundation layer) from the intra-ETLs (from foundation layer up to the reporting).

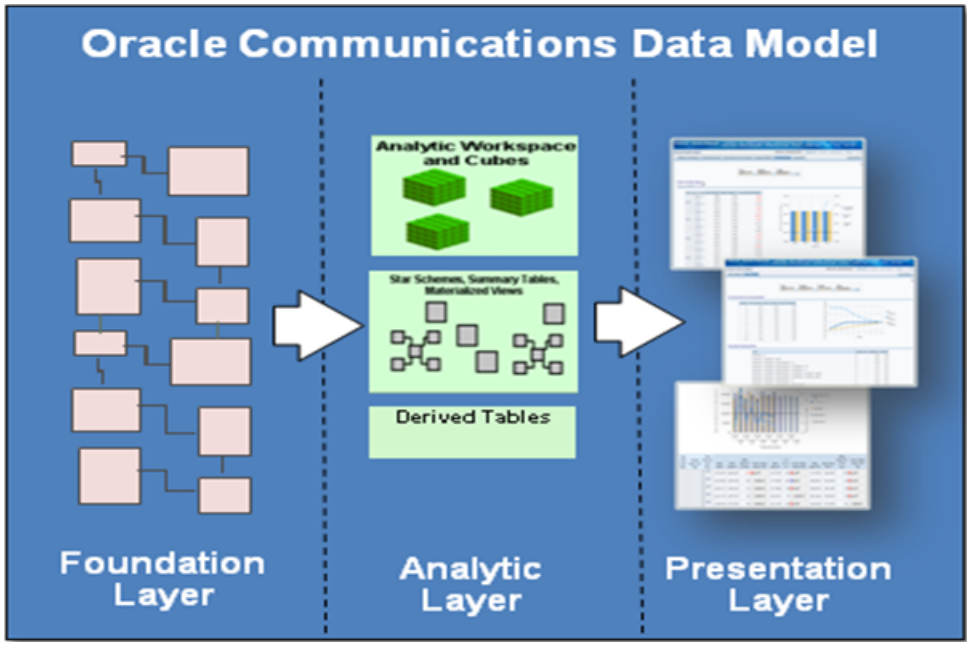
Figure 1–1 Data Warehouse Reference Architecture with Oracle Communications Data Model (Green)



Within a standard enterprise data warehouse architecture, as shown in Figure 1–1, if an adapter is used, for example the NCC Adapter or the BRM Adapter, the Staging area is also provided. Oracle Communications Data Model covers Foundation Layer, plus the intra-ETL part, and includes parts of the reporting area if OBIEE is used (Oracle Communications Data Model also includes the pre-built OBIEE repository).

To summarize Oracle Communications Data Model includes the parts shown in Figure 1–2.

Figure 1–2 Oracle Communications Data Model Inner Structure



The Oracle Communications Data Model Foundation Layer (FDL) is composed of the components shown in Table 1–2.

Table 1–2 Oracle Communications Data Model Foundation Layer Components

Component	Usage
Reference entities and tables	▪ Used to store master reference entities required by a service provider's operation ▪ Non-changing infrequently-changing data ▪ These entities translate into dimensions and hierarchies ▪ Physically, table names start with "DWR_".
Base entities and tables	▪ They store transactions from systems of record (CRM, Billing, OSS, and so on). ▪ It contains data at atomic level with the lowest level of granularity possible ▪ Required to perform detailed analysis, and uncovering causal effects and associations ▪ Physically, table names start with "DWB_"
Lookup entities and tables	▪ Hold descriptions for common code lookups (for example, plan type, reason code, and so on). ▪ Their goal is to save space since one does not have to store long descriptions in each transaction record. ▪ Physically, table names start with "DWL_"
Control tables	▪ These are only used and filled by the intra-ETLs. ▪ Physically, tables names start with "DWC_"

The Analytic Layer serves as an abstraction layer to simplify analytical access; this layer is a subject oriented representation of data ("shellfish" model). The analytic layer is easily understood by end-users and is simpler to navigate. This layer consists of aggregates, summaries, hierarchical relationships, and so on. The analytic layer is composed of star schemas, materialized views, OLAP cubes, and so on and is populated using intra-ETL processes from data in the Foundation Data Layer (FDL). The Oracle Communications Data Model Analytic layer is composed of the components shown in Table 1–3.

Table 1–3 Oracle Communications Data Model Analytic Layer Components

Component	Usage
DERIVED entities and tables	Provide a transition level to STARs. This layer is denormalized and is typically used for operational reporting and data mining, to uncover new insights and predict the future and: ■ Provides information that can only be derived from base data, usually at day level. ■ Includes information such as churn factors, profiling and prediction, congestion or under utilization, and so on. ■ Leverages data mining, advanced statistics, and complex queries. ■ Physically, tables start with "DWD_". Examples of derived tables include: Account Debt per Day, Account Payments per Day, Call Center Calls per Day, Commissions per Day, Connections/Disconnections Day, Costs - Customer & Organizational, Customer Mining, Market Share per Month, Network Availability per Day, Sales Campaign Summary, Sales Representative Statistics, and so on. There are also six mining models at this level: Customer profiling/segmentation, Lifetime value prediction, Customer sentiment, Churn prediction, Important churn factors, Cross-sell opportunity.
AGGREGATE entities and tables	Provide information to analyze and summarize, usually at the monthly level and: ■ Leverages base and derived data models to provide aggregated data such as summaries, averages, and so on. ■ Enables dimensional analysis on wide variety of subject areas. ■ Leverages Oracle OLAP cubes (pre-built OLAP cubes are available. For more information, see Chapter 9, "Oracle Communications Data Model OLAP Model Cubes". ■ Contains tables starting with "DWA_"; usually materialized views. ■ Represents the information access layer: It covers all the metadata.

About Business Areas and Subject Areas in Oracle Communications Data Model

A **Business Area** is a broad slice through Oracle Communications Data Model grouping where all tables that cover the associated business processes (reports, metadata, Mining, OLAP, 3NF) are all accessible through the same GUI (if OBIEE is used). A business area is a conceptual grouping, used at the default report level. The reports are organized by related subject areas gathered in "business areas". Table 1–4 lists the Oracle Communications Data Model business areas.

Figure 1–3 represents a Business Area: a broad slice through Oracle Communications Data Model covering all the entities and mapped business processes associated with the business area.

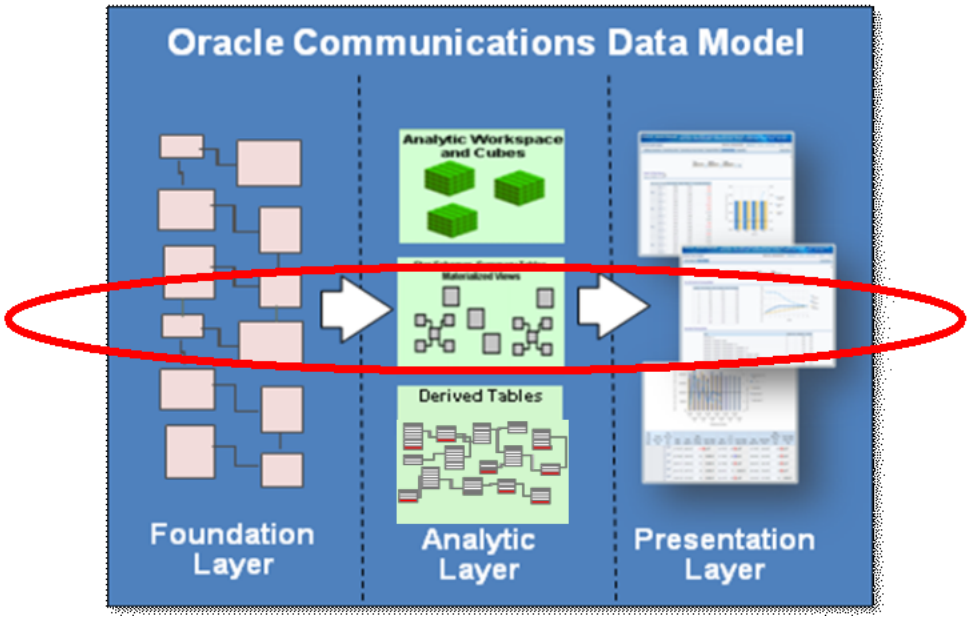
A **Subject Area** is a thin slice through Oracle Communications Data Model grouping all tables, mainly at the foundation layer, that cover a specific (logical) concept, business process or question. For example, the subject area PARTY defines the notion of a "PARTY". The "Individual" and "Organization" are both a subset of PARTY. The CUSTOMER, OPERATOR, and VENDOR are example of Party types. At the opposite of this abstract subject area, the subject area CALL CENTER, with pre-built aggregates provided in Oracle Communications Data Model on top of the foundation layer covers all the customer interactions that are done through a call center, whether inquiry, complaints, or change requests.

From an implementation perspective, Oracle Communications Data Model can be filled by subject or business area, without taking care of having to feed all tables in order to have tangible and usable results.

After filling all reports of a given business area with data, this does not mean that the whole business area is covered. Feeding all the tables needed to have all reports of a

given business area probably also feeds some reports of other business areas. For example, some PRODUCT, COST and COLLECTION AGENCY entities are required in the Business Area Revenue (for the Revenue OLAP cube). This also partly covers the Product Management, Cost and Contribution, as well as the Partner Management business areas.

Figure 1–3 Business Area: A broad Slice through Oracle Communications Data Model



About the Logical Data Model and Physical Data Model

A logical data model describes how to store information that defines business processes. The logical data model is an interface between business and technical staff, and allows these groups to provide a common understanding of business data elements and requirements.

The logical data model also provides the foundation for designing an Enterprise Data Warehouse. In Oracle Communications Data Model, the logical data model is designed to avoid data redundancy, as much as possible, without impacting performance, and thus prevent data and business transaction inconsistency. The idea is to facilitate data re-use and sharing, hence reducing development and maintenance cycle and cost.

The logical data model is a single source for the model definition, with its own naming conventions that are valid for both business and IT.

In describing the business processes independently of the data sources and the technology, the logical data model clarifies the functional specifications, while avoiding (unnecessary) assumptions.

This implies that, in principle, the logical data model of Oracle Communications Data Model could work on any platform. However, on top of the fact that it would not be supported by Oracle, such an implementation would not benefit from all the pre-built pre-integrated technologies leveraged with Oracle Communications Data Model, in particular in the analytical layer, such as Partitioning, OLAP, Mining models, and so on.

The Oracle Communications Data Model physical data model is the concrete implementation of the logical data model. It is fully technology dependent. The physical data model transforms business relationships into keys or indexes. It takes into account the infrastructure and technology to optimize the performance for end-users. The physical data model has its own naming convention in parallel to the one of the logical data model. Looking at the physical data model, one should be able to "build-back" the logical data model from the entity relationship, even if one could not have all the key understanding of a business process behind, unless one knows the business.

About Entity Relationships in Oracle Communications Data Model

A relationship between two entities should exist in the model only if there is a direct (business) relationship between those entities. You can categorize the relationships as:

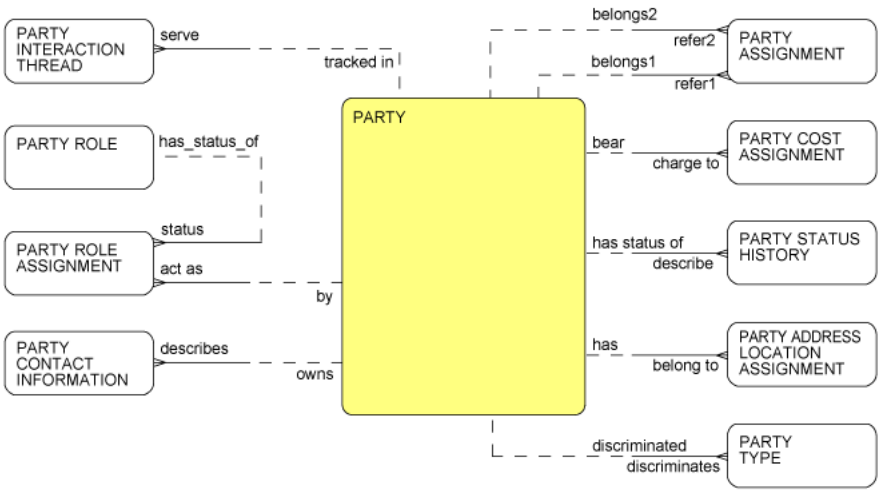
- Description or added information: (typically for Lookup tables) An entity contains codes that describes or validates the various values that an attribute of the original entity possesses. Physically, the two entities are related through a Foreign Key.
- Direct relationship: Typically, when two entities are related from a business point of view, the model needs to make sure this relationship is explicitly present and described. A direct relationship contains a direct business link between the entities (typically serves, uses, owns, and so on). There must be a distinction between clear 1 to many (1:n) or 0 to many (0:n), and many to many (n:m) relationship.
  - 0:n or 1:n relationships: typically business types like "owns", "has got", "serves", "uses"… It is usually directly linked to an attribute (like description), and may be a foreign key link.
  - m:n relationships: If the relationship can be "many to many", use an "Assignment" Entity between the entities to transform this m:n relationship in m:1 (or 0) and (0 or) 1:n.

Self-Relationship:

Very often, two rows of a given entity (say `"ENTITY"`) have to be related with one another. Most of the time, Oracle Communications Data Model uses a table named `"ENTITY ASSIGNMENT"`.

For example: `PARTY` and `PARTY ASSIGNMENT`, as shown in Figure 1–4.

Figure 1–4 PARTY and PARTY ASSIGNMENT Entities



PARTY ASSIGNMENT represents the relationship between two parties uniquely identified in Oracle Communications Data Model, whatever the role they play within the model: As Customer, Employee, dealer or even all three for the same individual!

In Party, the *PARTY TYPE* is a "person", an "organization", or an "organization business unit". It is not "Customer". This is a Party role. A given Party can have several roles which are "chosen" depending on the type of business interaction that takes place. However, the type never changes.

The only exception to this rule is with ADDRESS LOCATION. One uses the "ADDRESS RELATED" table, for example to feed the fact that an alternative billing address has been given by customer when the first one fails or because he is in holiday.

Understanding Named and Flexible Hierarchies

A named hierarchy is a pre-built hierarchy of general interest, usually used/seen in the market, with fixed levels (with a specific name for each).

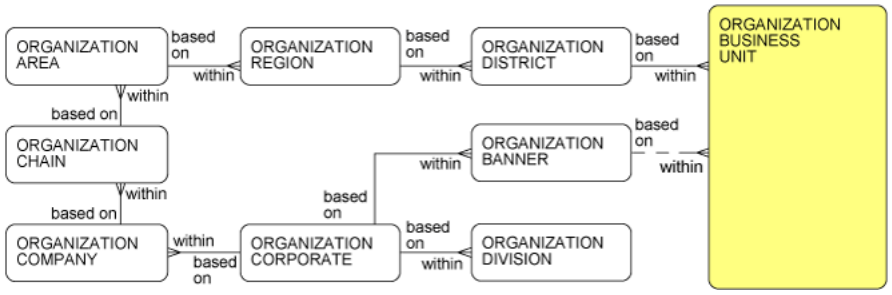
A flexible hierarchy is a hierarchical structure that is freely definable: for levels, attributes per level, relationships and numbers of hierarchies (for the same base entity) with various possible versions.

These hierarchies do the following:

- Follow Slowly Changing dimension Type II rules.
- Have the same leaf level (Organization Business Unit for "Organization" and Address Location for "Geography")
- Have pre-built tools to feed/change them easily (for implementation team).
- Can be associated in parallel (for example, In an Organization, several hierarchies can be defined: Administrative Hierarchy and Sales Hierarchy)

ORGANIZATION BUSINESS UNIT refers to lowest-level internal business unit of the organization that delivers a limited range of specific communications services or merchandise through any sales channel (website, store, and so on), as shown in Figure 1–5.

Figure 1–5 Organization Business Unit Entity



ORGANIZATION BUSINESS ENTITY refers to any internal logical entity that is recognized as a part of the enterprise for business analysis and transactions. Classification for a business entity can include company, operation unit, store, or warehouse. This is part of "Flexible Hierarchy" of organization.

Address Related is the only exception in Oracle Communications Data Model to relationship between the same entity.

Calendar and Time in Oracle Communications Data Model

Oracle Communications Data Model includes five pre-defined calendars:

- Business: allows to define operator's own Calendar according to its business operation.)
- Gregorian: Standard 365-days calendar
- Fiscal: Follows Accounting or Legal Requirements
- Ad: Follows Ad Cycle
- Planning: Planning cycle calendar

In Oracle Communications Data Model, the business calendar is by default the same as the natural calendar (=Gregorian), since most of operators run billing process monthly according to natural calendar. Business calendar can be modified according to different business operations.

A flexible calendar script can populate the calendar based on input parameters.

Time Transformation

A Time Transformation does the following:

- Relates the elements of time-based attributes to other elements of the same attribute and specify the relationship between elements for some time-based frame of reference.
- Supports both "one-to-one" and "many to many" Transformation …
  - For every element in the table, there is one corresponding element for the time frame in question (for example, current week to the same week last year).
  - Supports "many-to-many" transformations for calculating year-to-date, season-to-date and similar totals. These tables specify all of the elements that are to be included in calculating a total from a given reference point.
- Time of Day allows granularity to the Quarter-hour level.
- Year-to-date transformation specifies all of the days or weeks that are included in the transformation from a given day or week since the beginning of the year.

Product and Product Instance: In Product Management and Provisioning Business Area

PRODUCT: is what customer can get. It composes the offering:

- Sub-Types of `PRODUCT` are `PRODUCT PACKAGE`, `SERVICE, ITEM`, `EQUIPMENT`
- `PRODUCT` may have valid equipment functionality and versions.
- `PRODUCT` may be particularly offered only locally or in a limited region.

PRODUCT INSTANCE: represents the real instance of a given `PRODUCT` that a customer can purchase or rent. For example:

- Specified Song Corresponding to Product `MUSIC DOWNLOAD`
- TV channel Corresponding to Product PAY TV
- Product Instance could also be a physical instance of Equipment which customer can leverage to access the service from operator. It could be used for inventory management. For example:
  - Handset (with IMEI)

- Land line phone (with serial number)
- Set-top box
- Cable modem

Concept: Business Interaction / Events in All business areas

Business Interaction: "an arrangement, contract, or communication between an enterprise and one or more other entities such as individuals and organizations (or parts of organizations). Interactions take on the form of requests, responses, and notifications". (TMF-SID definition)

Event: an interaction of any kind between at least two parties. There are two types of events:

- "Network" Event: A Call Data Record or a Traffic event on the network made by a customer, a partner, or someone else calling the customer (but not originated from the CSP itself)
- "Non-Network" Event: all other (business) interactions:
  - Customer interaction with the call center, the web interface…,
  - SLA with partners
  - Interaction between Mediation and Order Management System

Scenario 2: Product and Subscription

For a Standard Offer with a two hundred dollar monthly fee that includes three products for customer, as in Figure 1–6.

Figure 1–6 Product and Subscription Offer for Customer A

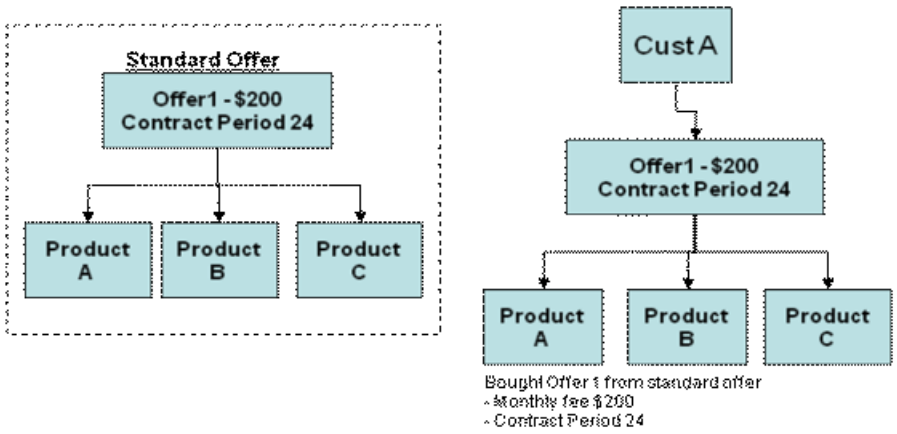
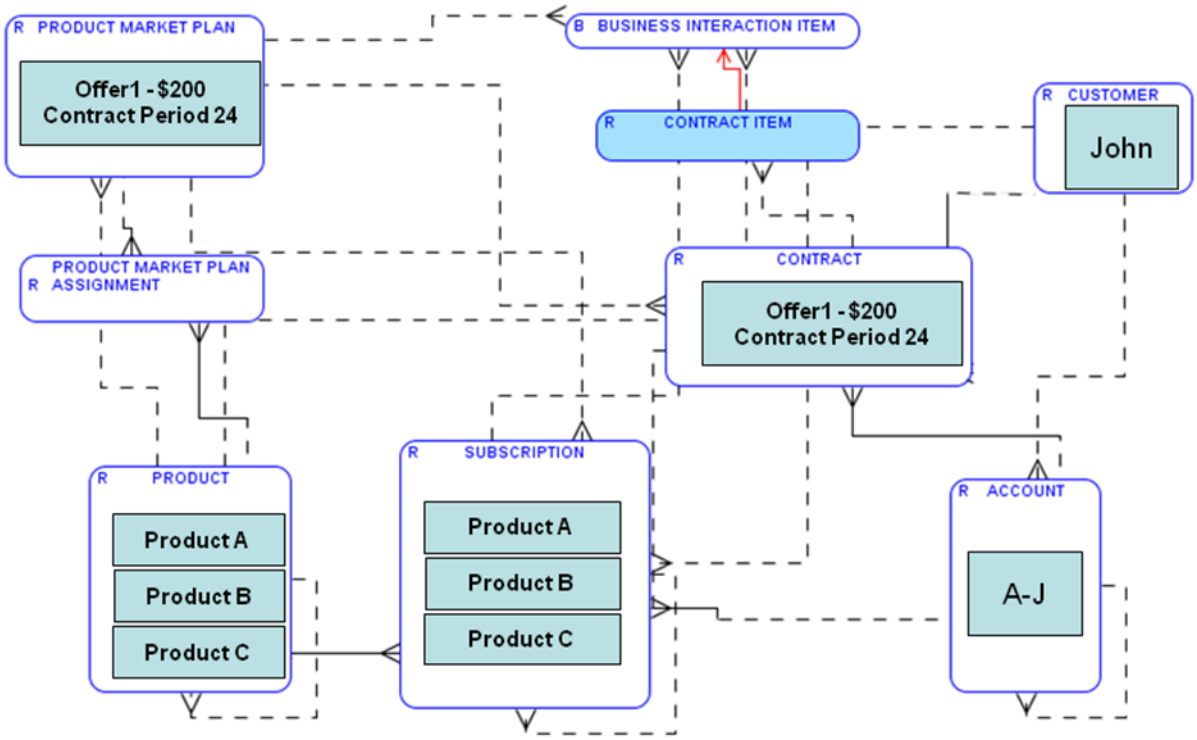


Figure 1–7 shows this relationship in Oracle Communications Data Model.

Figure 1–7 Product and Subscription Scenario



About TM Forum Information Framework (SID) Alignment

Oracle Communications Data Model is aligned with TM Forum's Information Framework (SID) Release 12. The TM Forum is the world's leading industry association focused on enabling best-in-class IT for service providers in the communications, media, and cloud service markets. The TM Forum provides business-critical industry standards and expertise to enable the creation, delivery, and monetization of digital services. For more information on TM Forum, see

http://www.tmforum.org/

The TM Forum's Information Framework (SID) provides a common reference model for enterprise information in the communications industry. The SID model does the following:

- Attempts to cover all information required in a Service Provider's operations.
- Provides an information reference model and a common vocabulary.
- Consists of business entities and their associated attribute definitions. Business entities describe items of interest to the business. For example, customer order, product offering, service specification, and so on. The attributes are facts that describe a business entity.

Business Areas in Oracle Communications Data Model

A **Business Area** is a broad slice through Oracle Communications Data Model grouping where all tables that cover the associated business processes (reports, metadata, Mining, OLAP, 3NF) are all accessible through the same GUI (if OBIEE is

used). A business area is a conceptual grouping used at the default report level. The reports are organized by related subject areas gathered in "business areas".

Table 1–4 lists the Oracle Communications Data Model business areas.

Table 1–4 Business Areas

Business Area	Description
Customer Management	Covers the complete customer lifecycle, from acquisition to churn, including the customer interaction. This area also contains the notion of account (shared with revenue), contract, subscription, and so on.
Revenue	Covers all revenue sources (pre-paid/postpaid, equipment rental, or sales), the sales process, the debt, payment and refund/adjustment processes. This area is the accounting view of a customer or the sales process.
Product Management	Covers the complete product lifecycle, from creation to drop-off
Provisioning and Activation	Covers the complete order management and installation process. This area is also the place for a number portability, trouble ticketing (shared with Customer Management) and SLA management item
Network	Covers all the network related subject areas that are not provisioning. In this area, the complete network of the Service Provider can be described and analyzed. This covers network usage, and network health
Marketing	Covers all the loyalty, campaign, and promotion processes with the notion of prospect and contact list, as well as market share (common with Customer management)
Cost and Contributions	Is the financial perspective of the business, with all the costs associated with running a communications service provider business, whether as operator, MVNO, or simple content provider. This area intersects with all other business areas, but limits itself to cost and profitability measurements
Partner Management	Covers all types of partners, whether interconnection or roaming operators, content providers, dealers (sales), suppliers, external debt collection agencies, and so on

2

Logical Data Model Foundation

The logical data model of the Oracle Communications Data Model defines the business entities and their relationships and provides an understanding of the business and data requirements for the Oracle Communications Data Model data warehouse.

This chapter includes the following sections:

Major Subject Areas and Related Entities

The following describes the main entities related to some major or typical subject areas in Oracle Communications Data Model:

Table 2–1 List of Subject Areas

Subject Area
Subject Area: Account
Subject Area: Agreement
Subject Area: Billing
Subject Area: Business Interaction
Subject Area: Click Stream
Subject Area: Cost
Subject Area: Customer
Subject Area: Customer Field
Subject Area: Employee
Subject Area: Event
Subject Area: Financial GL Cost and Asset
Subject Area: Flexible Characteristics
Subject Area: Loyalty Program
Subject Area: Number Porting
Subject Area: Party
Subject Area: Party Partners Vendor Roaming Content

Table 2–1 (Cont.) List of Subject Areas

Subject Area
Subject Area: Payment
Subject Area: Prepaid-Balance and Voucher
Subject Area: Problem
Subject Area: Process
Subject Area: Product Offering and Product Subscription
Subject Area: Product Subscription
Subject Area: Product and Product Specification
Subject Area: Promotion and Campaign
Subject Area: QoS
Subject Area: Resource
Subject Area: Service and Service Specification
Subject Area: UDR Event

Note: The entity-relationship figures of the major reference entities in those subject areas are available with the Oracle Communications Data Model IP Patch. The IP Patch includes additional documentation. To obtain the IP Patch and for the latest information about Oracle Communications Data Model patch sets, go to My Oracle Support at `https://support.oracle.com`.

Subject Area: Account

Table 2–2 lists the entities associated with the subject area Account.

Table 2–2 Entities of Subject Area: Account

Account Entity List
ACCOUNT
ACCOUNT ACCOUNTING CYCLE HISTORY
ACCOUNT ADJUSTMENT REASON
ACCOUNT AGREEMENT RELATIONSHIP
ACCOUNT ASSIGNMENT
ACCOUNT ASSIGNMENT REASON
ACCOUNT ASSIGNMENT TYPE
ACCOUNT BALANCE
ACCOUNT BALANCE ADJUSTMENT TYPE
ACCOUNT BALANCE GROUP
ACCOUNT BALANCE IMPACT
ACCOUNT BALANCE TYPE
ACCOUNT BILLING CYCLE HISTORY
ACCOUNT BILLING FREQUENCY HISTORY

Table 2–2 (Cont.) Entities of Subject Area: Account

Account Entity List
ACCOUNT BILLING OCCURRENCE
ACCOUNT BILLING PERIOD HISTORY
ACCOUNT MANAGEMENT HISTORY
ACCOUNT PARTY PRODUCT OFFERING RELATIONSHIP
ACCOUNT PAYMENT
ACCOUNT PAYMENT METHOD
ACCOUNT PAYMENT METHOD STATUS
ACCOUNT PAYMENT METHOD STATUS REASON
ACCOUNT PAYMENT METHOD STATUS TYPE
ACCOUNT PREFERRED INVOICE DELIVERY
ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY
ACCOUNT PROFILE
ACCOUNT ROLE TYPE
ACCOUNT SEGMENT
ACCOUNT SEGMENT ASSIGNMENT HISTORY
ACCOUNT SEGMENTATION MODEL
ACCOUNT STATUS HISTORY
ACCOUNT STATUS REASON
ACCOUNT STATUS TYPE
ACCOUNT TYPE
ACCOUNTING CYCLE
ADDRESS LOCATION
BANK DIRECT DEBIT CHANNEL
BILLING CYCLE
BILLING FREQUENCY
BILLING PERIOD
CREDIT CATEGORY
CURRENCY
CUSTOMER
INVOICE
INVOICE DELIVERY TYPE
LANGUAGE
ORGANIZATION BUSINESS UNIT
PARTY
PARTY ACCOUNT ASSIGNMENT
PARTY ACCOUNT ASSIGNMENT TYPE
PAYMENT METHOD TYPE

Table 2–2 (Cont.) Entities of Subject Area: Account

Account Entity List
PRODUCT OFFERING
PRODUCT SUBSCRIPTION
SEGMENT CRITERIA
SEGMENT TYPE
UNIT OF MEASURE

Subject Area: Agreement

Table 2–3 lists the entities associated with the subject area Agreement.

Table 2–3 Entities of Subject Area: Agreement

Agreement Entity List
ACCOUNT
ACCOUNT AGREEMENT RELATIONSHIP
AGREEMENT
AGREEMENT APPROVAL
AGREEMENT APPROVAL ASSIGNMENT
AGREEMENT ASSIGNMENT
AGREEMENT ASSIGNMENT REASON
AGREEMENT ASSIGNMENT TYPE
AGREEMENT CHANGE INITIATOR TYPE
AGREEMENT CHANGE REASON
AGREEMENT CHANGE TYPE
AGREEMENT DOCUMENT
AGREEMENT INTENT
AGREEMENT ITEM
AGREEMENT PRODUCT SPEC ASSIGNMENT
AGREEMENT SLA RELATIONSHIP
AGREEMENT STATUS
AGREEMENT STATUS REASON
AGREEMENT STATUS TYPE
AGREEMENT TERM
AGREEMENT TERM TYPE
AGREEMENT TYPE
CUSTOMER
CUSTOMER DOCUMENT
CUSTOMER ORDER
DOCUMENT TYPE
EQUIPMENT RENTING AGREEMENT

Table 2–3 (Cont.) Entities of Subject Area: Agreement

Agreement Entity List
EVENT AGREEMENT
INSTALLMENT AGREEMENT
INVOICE
INVOICE PAYMENT TERM TYPE
KEY PERFORMANCE INDICATOR SLS PARM
KEY QUALITY INDICATOR SLS PARM
LOOKUP
NEGOTIATED SERVICE LEVEL SPEC
PARTY AGREEMENT ASSIGNMENT
PARTY AGREEMENT ASSIGNMENT ROLE
PARTY AGREEMENT ASSIGNMENT TYPE
PRODUCT OFFERING
PRODUCT SPECIFICATION
PROMOTION
SERVICE LEVEL AGREEMENT
SERVICE LEVEL AGREEMENT ITEM
SERVICE LEVEL AGREEMENT RELATIONSHIP
SERVICE LEVEL AGREEMENT TYPE
SERVICE LEVEL AGREEMENT VIOLATION
SERVICE LEVEL OBJECTIVE
SERVICE LEVEL SPEC APPLICABILITY
SERVICE LEVEL SPEC CONSEQUENCE
SERVICE LEVEL SPEC PARAMETER
SERVICE LEVEL SPECIFICATION
SERVICE LEVEL UNMET CONSEQUENCE TYPE
SERVICE SPECIFICATION
TARGET AGREEMENT
TEMPLATE SERVICE LEVEL SPEC
UNIT OF MEASURE
VENDOR AGREEMENT

Subject Area: Billing

Table 2–4 lists the entities associated with the subject area Billing.

Table 2–4 Entities of Subject Area: Billing

Billing Entity List
ACCESS METHOD
ACCOUNT

Table 2–4 (Cont.) Entities of Subject Area: Billing

Billing Entity List
ACCOUNT BILLING CYCLE HISTORY
ACCOUNT BILLING FREQUENCY HISTORY
ACCOUNT BILLING OCCURRENCE
ACCOUNT BILLING PERIOD HISTORY
ACCOUNT PAYMENT
ACCOUNT PAYMENT METHOD
ACCOUNT PREFERRED INVOICE DELIVERY
AGREEMENT
BILLING CYCLE
BILLING FREQUENCY
BILLING OCCURRENCE TYPE
BILLING PERIOD
BILLING STATUS CATEGORY
BILLING STATUS REASON
BILLING STATUS TYPE
CURRENCY
CUSTOMER
EMPLOYEE
EMPLOYEE JOB ROLE ASSIGNMENT
EXTERNAL OPERATOR
INVOICE
INVOICE ADJUSTMENT
INVOICE ADJUSTMENT QUOTA
INVOICE ADJUSTMENT REASON
INVOICE ADJUSTMENT TYPE
INVOICE DELIVERY FORMAT
INVOICE DELIVERY TYPE
INVOICE DISCOUNT
INVOICE DISCOUNT REASON
INVOICE DISCOUNT TYPE
INVOICE GENERATION PROCESS
INVOICE ITEM
INVOICE ITEM DETAIL
INVOICE ITEM DETAIL TYPE
INVOICE ITEM RELATIONSHIP
INVOICE ITEM TYPE
INVOICE PAYMENT ASSIGNMENT

Table 2–4 (Cont.) Entities of Subject Area: Billing

Billing Entity List
INVOICE PAYMENT TERM
INVOICE PAYMENT TERM TYPE
INVOICE PROCESS ASSIGNMENT
INVOICE STATUS
INVOICE STATUS HISTORY
INVOICE STATUS TYPE
INVOICE TAX ITEM
INVOICE TYPE
INVOLVEMENT ROLE
JOB ROLE
JOURNAL ENTRY LINE INVOICE ITEM ASSIGNMENT
LANGUAGE
ORGANIZATION BUSINESS UNIT
PRICE EVENT
PRICE TYPE
PROCESS INVOICE DISPATCHING EVENT
PROCESS INVOICE GENERATION EVENT
PROCESS INVOICE ISSUING EVENT
PRODUCT OFFERING PRICE
PRODUCT SPECIFICATION
PRODUCT SUBSCRIPTION
SERVICE
TAX CATEGORY
UNIT OF MEASURE

Subject Area: Business Interaction

Table 2–10 lists the entities associated with the subject area Business Interaction.

Table 2–5 Entities of Subject Area: Dealer

Business Interaction Entity List
ACCOUNT
ACCOUNT BUSINESS INTERACTION ROLE
AGREEMENT
AGREEMENT APPROVAL
APPOINTMENT
APPOINTMENT TYPE
BUSINESS INTERACTION
BUSINESS INTERACTION ASSIGNMENT

Table 2–5 (Cont.) Entities of Subject Area: Dealer

Business Interaction Entity List
BUSINESS INTERACTION ASSIGNMENT TYPE
BUSINESS INTERACTION CHARACTERISTIC
BUSINESS INTERACTION CHARACTERISTIC TYPE
BUSINESS INTERACTION CHARACTERISTIC VALUE
BUSINESS INTERACTION HISTORY
BUSINESS INTERACTION ITEM
BUSINESS INTERACTION ITEM PRICE
BUSINESS INTERACTION ITEM SPECIFICATION
BUSINESS INTERACTION LOCATION ASSIGNMENT
BUSINESS INTERACTION PAYMENT ASSIGNMENT
BUSINESS INTERACTION ROLE
BUSINESS INTERACTION SPECIFICATION
BUSINESS INTERACTION STATUS REASON
BUSINESS INTERACTION VERSION
CUSTOMER
CUSTOMER ORDER
CUSTOMER ORDER LINE ITEM
NP REQUEST HEADER
NP REQUEST LINE ITEM
NP REQUEST LINE ITEM STATE HISTORY
NP REQUEST LINE ITEM STATE TYPE
NP REQUEST STATE HISTORY
NP REQUEST STATE TYPE
NP REQUEST TYPE
NP STEP
PARTY
PARTY BUSINESS INTERACTION ROLE
PRODUCT SPECIFICATION
PRODUCT SUBSCRIPTION
PURCHASE ORDER
PURCHASE ORDER LINE ITEM
RESOURCE
RESOURCE BUSINESS INTERACTION ROLE
RESOURCE ORDER
RESOURCE ORDER LINE ITEM
SERVICE
SERVICE ORDER

Table 2–5 (Cont.) Entities of Subject Area: Dealer

Business Interaction Entity List
SERVICE ORDER LINE ITEM
VENDOR AGREEMENT

Subject Area: Click Stream

Table 2–6 lists the entities associated with the subject area Click Stream.

Table 2–6 Entities of Subject Area: Click Stream

Click Stream Entity List
AGENT
CAMPAIGN
CLIENT
CLIENT HOST
CLIENT VERSION
DAY
DOMAIN
DOMAIN TYPE
EVENT
EVENT TYPE
GEOGRAPHY COUNTRY
GEOGRAPHY REGION
GEOGRAPHY SUB REGION
IMPRESSION
IMPRESSION EVENT TYPE
OPERATING SYSTEM
PAGE
PLATFORM
REFERRING CATEGORY
REFERRING CATEGORY LEVEL
REFERRING SITE
REFERRING URL
SEARCH
SECOND
SECURE HOLDER
SERVER
SERVER FARM
SERVER STATUS
SESSION
SESSION TYPE

Table 2–6 (Cont.) Entities of Subject Area: Click Stream

Click Stream Entity List
SITE
SITE INTERFACE ROLE
SITE ROLE
SITE TYPE
VISITOR
VISITOR TYPE
WEBSITE
WEBSITE USER

Subject Area: Cost

Table 2–7 lists the entities associated with the subject area Cost.

Table 2–7 Entities of Subject Area: Cost

Cost Entity List
ACCOUNT
ACCOUNT COST
ACCOUNTING ITEM CATEGORY
CAMPAIGN COST
CELL SITE COST
CHANNEL COST
CONTACT LIST COST
COST
COST CENTER
COST CENTER BUDGET
COST REASON
COST SUBTYPE
COST TYPE
COURIER COST
CUSTOMER COST
EMPLOYEE COST
EQUIPMENT CENTER COST
EVENT COST
GL ACCOUNT
GL COST CENTER SEGMENT
MEDIA OBJECT COST
ORGANIZATION BUSINESS UNIT COST
PARTY
PARTY COST ASSIGNMENT

Table 2–7 (Cont.) Entities of Subject Area: Cost

Cost Entity List
PROCESS COST
PRODUCT OFFERING COST
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION COST
PROJECT
PROMOTION COST
RESOURCE
RESOURCE COST
SERVICE

Subject Area: Customer

Table 2–8 lists the entities associated with the subject area Customer.

Table 2–8 Entities of Subject Area: Customer

Customer Entity List
ACCOUNT
ACCOUNT PAYMENT
ADDRESS LOCATION
AGREEMENT
ARPU BAND
BARING REASON
BLACK LIST HISTORY
CALENDAR MONTH
CREDIT SCORE PROVIDER
CUSTOMER
CUSTOMER ACCOUNT
CUSTOMER ADDRESS
CUSTOMER AFFILIATION
CUSTOMER CLASS
CUSTOMER CLASS ASSIGNMENT
CUSTOMER CLUSTER
CUSTOMER CLUSTER TYPE
CUSTOMER COMMUNITY
CUSTOMER COST
CUSTOMER DOCUMENT
CUSTOMER FACING SERVICE
CUSTOMER FACING SERVICE ROLE
CUSTOMER FACING SERVICE SPECIFICATION

Table 2–8 (Cont.) Entities of Subject Area: Customer

Customer Entity List
CUSTOMER FACING SERVICE SPECIFICATION ATOMIC
CUSTOMER FACING SERVICE SPECIFICATION COMPOSITE
CUSTOMER FACING SERVICE SPECIFICATION ROLE
CUSTOMER FACING SERVICE SPECIFICATION VERSION
CUSTOMER FIELD SERVICE ACTIVITY
CUSTOMER FIELD SERVICE DETAIL
CUSTOMER GROUP
CUSTOMER GROUP ASSIGNMENT
CUSTOMER GROUP ITEM
CUSTOMER INDIVIDUAL
CUSTOMER OCCASION
CUSTOMER OCCASION TYPE
CUSTOMER ORDER
CUSTOMER ORDER DOCUMENT
CUSTOMER ORDER LINE ITEM
CUSTOMER ORDER LINE ITEM STATE ASSIGN
CUSTOMER ORDER PAYMENT
CUSTOMER ORDER PRIORITY TYPE
CUSTOMER ORDER STATE ASSIGNMENT
CUSTOMER ORDER STATE CHANGE REASON
CUSTOMER ORGANIZATION
CUSTOMER PREFERENCE
CUSTOMER RELATIONSHIP
CUSTOMER RELATIONSHIP TYPE
CUSTOMER RESTRICTED INFO
CUSTOMER REVENUE BAND
CUSTOMER REVENUE BAND ASSIGNMENT
CUSTOMER REVENUE TYPE
CUSTOMER SCORE
CUSTOMER SEGMENT
CUSTOMER SEGMENTATION MODEL
CUSTOMER SIC ASSIGNMENT
CUSTOMER SOURCE
CUSTOMER STATUS REASON
CUSTOMER TYPE
DERIVED VALUE
EDUCATION

Table 2–8 (Cont.) Entities of Subject Area: Customer

Customer Entity List
EVENT PARTY INTERACTION
EXTERNAL CREDIT PROFILE
EXTERNAL CREDIT PROFILE ASSIGNMENT
EXTERNAL ORGANIZATION TYPE
GENDER
HOUSEHOLD
INITIATIVE RESULT TYPE
INITIATIVE TYPE
INVOICE
JOB
LANGUAGE
MARITAL STATUS
PARTY
PARTY PROMOTION RESPONSE
PARTY STATUS HISTORY
PROMOTION
PROSPECT
SEGMENT CRITERIA
SOC JOB
SOC JOB CATEGORY
SOC JOB GROUP
UNIT OF MEASURE
VALUE TYPE

Subject Area: Customer Field

Table 2–9 lists the entities associated with the subject area Customer Field.

Table 2–9 Entities of Subject Area: Customer Field

Customer Field Entity List
ACCOUNT MANAGEMENT HISTORY
AGREEMENT
CUSTOMER
CUSTOMER FIELD SERVICE ACTIVITY
CUSTOMER FIELD SERVICE DETAIL
CUSTOMER ORDER
CUSTOMER ORDER LINE ITEM
CUSTOMER ORDER PRIORITY TYPE
DEALER

Table 2–9 (Cont.) Entities of Subject Area: Customer Field

Customer Field Entity List
EMPLOYEE
FIELD ACTIVITY RESULT TYPE
FIELD ACTIVITY TYPE
ORDER STATE
ORDER STATE TYPE
ORDER TYPE
ORGANIZATION BUSINESS UNIT
PRODUCT CATALOG
PRODUCT SPECIFICATION
SALES COMMISSION PLAN DETAIL

Subject Area: Employee

Table 2–10 lists the entities associated with the subject area Employee.

Table 2–10 Entities of Subject Area: Employee

Employee Entity List
BUSINESS UNIT JOB ROLE
COST CENTER
CURRENCY
EMPLOYEE
EMPLOYEE ACTUAL LABOR HOURLY
EMPLOYEE COST
EMPLOYEE DESIGNATION
EMPLOYEE EXPENSE REPORT
EMPLOYEE EXPENSE REPORT ITEM
EMPLOYEE EXPENSE REPORT STATE
EMPLOYEE JOB ROLE ASSIGNMENT
EMPLOYEE JOB ROLE TYPE
EMPLOYEE LANGUAGE CAPABILITY
EMPLOYEE RESTRICTED INFO
EMPLOYEE SCHEDULE
EMPLOYEE TRAINING RECORD
EMPLOYEE TYPE
EVENT
EVENT EMPLOYEE PAYROLL
EVENT PARTY ASSIGNMENT
EXPENSE REPORT PARTY ASSIGNMENT
EXPENSE REPORT STATE TYPE

Table 2–10 (Cont.) Entities of Subject Area: Employee

Employee Entity List
EXPENSE TYPE
GL ACCOUNT
JOB ROLE
ORGANIZATION BUSINESS UNIT
PARTY
PAYMENT METHOD TYPE
PRODUCT SPECIFICATION

Subject Area: Event

Table 2–11 lists the entities associated with the subject area Event.

Table 2–11 Entities of Subject Area: Event

Event Entity List
ACCOUNT EVENT TYPE
ADDRESS LOCATION
CAMPAIGN CHANNEL
CHANNEL
EVENT
EVENT ACCESS METHOD ACTIVITY
EVENT ACCOUNT
EVENT AGREEMENT
EVENT ASSIGNMENT
EVENT ASSIGNMENT REASON
EVENT ASSIGNMENT TYPE
EVENT CATEGORY
EVENT CIRCUIT RENTAL
EVENT CLASS
EVENT COMPOSITE PRODUCT SPECIFICATION
EVENT COST
EVENT EMIT DETAIL
EVENT EMPLOYEE ACTIVITY
EVENT EMPLOYEE PAYROLL
EVENT EQUIPMENT INSTANCE
EVENT FINANCIAL
EVENT GEOGRAPHY
EVENT LOCATION
EVENT LOYALTY PROGRAM
EVENT PARTY ASSIGNMENT

Table 2–11 (Cont.) Entities of Subject Area: Event

Event Entity List
EVENT PARTY INTERACTION
EVENT PARTY INTERACTION CHARACTERISTIC VALUE
EVENT PARTY INTERACTION CHAT DETAIL
EVENT PARTY INTERACTION ITEM
EVENT PARTY INTERACTION PARTICIPATION
EVENT PARTY PROFILE
EVENT PARTY ROLE
EVENT PREPAID MOBILE
EVENT PRODUCT SUBSCRIPTION WIRELESS
EVENT REASON
EVENT REASON CATEGORY
EVENT RESOLUTION
EVENT RESPONSE REASON
EVENT RESULT
EVENT SIM CARD
EVENT STATUS
EVENT STATUS REASON
EVENT STATUS TYPE
EVENT SUBSCRIPTION CHANGE
EVENT TRIGGER DETAIL
EVENT TYPE
GL ACCOUNT
INVOICE
INVOICE DELIVERY TYPE
NETWORK
ORGANIZATION BUSINESS UNIT
PARTY
PARTY EVENT TYPE
PREPAID MOBILE EVENT TYPE
PRODUCT SPECIFICATION
PRODUCT SUBSCRIPTION

Subject Area: Financial GL Cost and Asset

Table 2–12 lists the entities associated with the subject area Financial GL Cost and Asset.

Table 2–12 Entities of Subject Area: Financial GL Cost and Asset

Financial GL Cost and Asset Entity List
ASSET
ASSET APPRAISAL HISTORY
ASSET CONDITION HISTORY
ASSET DEPRECIATION HISTORY
ASSET PARTY ASSOCIATION
ASSET SITE ASSIGNMENT
ASSET TYPE
BUSINESS ASSET
CHANNEL
COLLECTION TYPE
COST
COST CENTER
COST REASON
COST SUBTYPE
COST TYPE
CURRENCY
CUSTOMER ORDER
CUSTOMER ORDER LINE ITEM
EMPLOYEE
FISCAL QUARTER
FISCAL YEAR
GL ACCOUNT
GL ACCOUNT ASSIGNMENT
GL ACCOUNT SEGMENT
GL ACCOUNT TYPE
GL BALANCE
GL COST CENTER SEGMENT
GL JE LINE SUBLEDGER ASSIGNMENT
GL JOURNAL ENTRY
GL JOURNAL ENTRY BATCH
GL JOURNAL ENTRY CATEGORY
GL JOURNAL ENTRY LINE
GL LEDGER
GL LEDGER ACCOUNT ASSIGNMENT
GL ORG BSNS UNIT SEGMENT
GL PERIOD
GL PRODUCT SPECIFICATION SEGMENT

Table 2–12 (Cont.) Entities of Subject Area: Financial GL Cost and Asset

Financial GL Cost and Asset Entity List
GL PROJECT SEGMENT
GL REFERENCE
GL SEGMENT
GL SEGMENT TYPE
GL SUBLEDGER
GL SUBLEDGER JOURNAL ENTRY
GL SUBLEDGER JOURNAL ENTRY LINE
INVOICE ITEM
JOURNAL ENTRY LINE CUSTOMER ORDER ITEM ASSIGNMENT
JOURNAL ENTRY LINE INVOICE ITEM ASSIGNMENT
ORGANIZATION BUSINESS UNIT
PARTY
PARTY PROJECT PARTICIPATION
PRODUCT SPECIFICATION
PROJECT
PROJECT ELEMENT
SALES CHANNEL
SALES CHANNEL COMMISSION PLAN ASSIGNMENT
SALES COMMISSION DETAIL
SALES COMMISSION PLAN
SALES COMMISSION PLAN DETAIL
TASK

Subject Area: Flexible Characteristics

Table 2–13 lists the entities associated with the subject area Flexible Characteristics.

Table 2–13 Entities of Subject Area: Flexible Characteristics

Flexible Characteristics Entity List
BUSINESS INTERACTION CHARACTERISTIC
CAMPAIGN CHARACTERISTIC
COMP INTEL CHARACTERISTIC
COMP PROD CRRL CHARACTERISTIC
DEMOGRAPHIC CHARACTERISTIC
FLEXIBLE CHARACTERISTIC
FLEXIBLE CHARACTERISTIC ASSIGNMENT
FLEXIBLE CHARACTERISTIC ASSIGNMENT TYPE
FLEXIBLE CHARACTERISTIC RELATIONSHIP
FLEXIBLE CHARACTERISTIC TYPE

Table 2–13 (Cont.) Entities of Subject Area: Flexible Characteristics

Flexible Characteristics Entity List
FLEXIBLE CHARACTERISTIC VALUE
FLEXIBLE CHARACTERISTIC VALUE ASSIGNMENT
FLEXIBLE CHARACTERISTIC VALUE RELATIONSHIP
MARKET SEGMENT CHARACTERISTIC
PARTY PROFILE TYPE CHARACTERISTIC
PIT CHARACTERISTIC
PRODUCT CATALOG CHARACTERISTIC
PRODUCT SPECIFICATION CHARACTERISTIC
RESOURCE CHARACTERISTIC
RESOURCE SPECIFICATION CHARACTERISTIC
SERVICE PROBLEM CHARACTERISTIC
SERVICE SPECIFICATION CHARACTERISTIC
UDR EVENT CHARACTERISTIC
UDR EVENT SPECIFICATION CHARACTERISTIC

Subject Area: Loyalty Program

Table 2–14 lists the entities associated with the subject area Loyalty Program.

Table 2–14 Entities of Subject Area: Loyalty Program

Loyalty Program Entity List
ACCOUNT
ACCRUAL EVENT
AGREEMENT
AGREEMENT PRODUCT SPEC ASSIGNMENT
AWARD LEVEL
CHANNEL
COMPENSATORY REASON
CUSTOMER
CUSTOMER RFMP SCORE
ENROLL CHANNEL
ENROLL TYPE
EVENT
EVENT LOYALTY PROGRAM
EXPIRY BASIS TYPE
ITEM SPECIFICATION
LOYALTY MEMBERSHIP ENROLL
LOYALTY PROGRAM
LOYALTY TIER

Table 2–14 (Cont.) Entities of Subject Area: Loyalty Program

Loyalty Program Entity List
LOYALTY TIER CHANGE HISTORY
LOYALTY TIER CLASS
MEMBERSHIP ACCOUNT
MEMBERSHIP ACCOUNT BALANCE HISTORY
ORGANIZATION
ORGANIZATION BUSINESS UNIT
PARTY
POINT BLOCK
POINTS EXPIRY BASIS
PROMOTION
PROMOTION COST
REDEMPTION EVENT
REDEMPTION TYPE
RETAIL TRANSACTION LINE ITEM
SKU ITEM
TIER CARD TYPE

Subject Area: Number Porting

Table 2–15 lists the entities associated with the subject area Number Porting.

Table 2–15 Entities of Subject Area: Number Porting

Number Porting Entity List
ACCESS METHOD
ACCOUNT
AGREEMENT
AGREEMENT TYPE
CHANNEL
CUSTOMER
DEALER
EMPLOYEE
EXTERNAL OPERATOR
INITIATIVE TYPE
NP MOBILE MSISDN
NP REQUEST HEADER
NP REQUEST LINE ITEM
NP REQUEST LINE ITEM STATE HISTORY
NP REQUEST LINE ITEM STATE TYPE
NP REQUEST STATE HISTORY

Table 2–15 (Cont.) Entities of Subject Area: Number Porting

Number Porting Entity List
NP REQUEST STATE REASON
NP REQUEST STATE TYPE
NP REQUEST TYPE
NP STEP

Subject Area: Party

Table 2–16 lists the entities associated with the subject area Party.

Table 2–16 Entities of Subject Area: Party

Party Entity List
ACCOUNT
ANZSIC CLASSIFICATION
BANK
BLACK LIST HISTORY
BUSINESS LEGAL STATUS
COLLECTION AGENCY
CONTACT ROLES
CONTENT PROVIDER
COST
COST CENTER
CUSTOMER
CUSTOMER OCCASION
CUSTOMER OCCASION TYPE
CUSTOMER ORGANIZATION
CUSTOMER SIC ASSIGNMENT
DEALER
DEMOGRAPHY ATTRIBUTE
DEMOGRAPHY GROUP
EMPLOYEE
EMPLOYEE JOB ROLE ASSIGNMENT
EVENT
EXTERNAL INFORMATION SOURCE
EXTERNAL OPERATOR
EXTERNAL ORGANIZATION TYPE
INDIVIDUAL DEMOGRAPHY VALUE
ISP
JOB ROLE
LANGUAGE

Table 2–16 (Cont.) Entities of Subject Area: Party

Party Entity List
NAICS CLASSIFICATION
ORGANIZATION BUSINESS UNIT
PARTY
PARTY ADDRESS LOCATION ASSIGNMENT
PARTY ASSIGNMENT
PARTY ASSIGNMENT REASON
PARTY ASSIGNMENT TYPE
PARTY CONTACT INFORMATION
PARTY CONTACT INFORMATION TYPE
PARTY COST ASSIGNMENT
PARTY GEOGRAPHY ENTITY ASSIGNMENT
PARTY LOCATION REASON
PARTY LOCATION TYPE
PARTY ROLE
PARTY ROLE ASSIGNMENT
PARTY ROLE STATUS
PARTY STATUS CATEGORY
PARTY STATUS CHANGE REASON
PARTY STATUS HISTORY
PARTY STATUS HISTORY
PARTY TYPE
PROSPECT
SIC ASSIGNMENT
SIC ASSIGNMENT REASON
SIC CLASSIFICATION
SOURCE SYSTEM
SOURCE SYSTEM KEY MAPPING
TAX AUTHORITY
VENDOR

Subject Area: Party Partners Vendor Roaming Content

Table 2–17 lists the entities associated with the subject area Party Partners Vendor Roaming Content.

Table 2–17 Entities of Subject Area: Party Partners Vendor Roaming Content

Party Partners Vendor Roaming Content Entity List
ACCESS METHOD PORTING HISTORY
CONTENT

Table 2–17 (Cont.) Entities of Subject Area: Party Partners Vendor Roaming Content

Party Partners Vendor Roaming Content Entity List
CONTENT DELIVERY EVENT
CONTENT PRICE
CONTENT PROVIDER
CONTENT TYPE
COURIER
DEAL
DEAL LINE ITEM
EXTERNAL OPERATOR
OPERATOR GROUP
OPERATOR TYPE
PARTNER PAYMENT
PARTNER PROMOTION PROGRAM
PARTY
PRODUCT SPECIFICATION
RESOURCE SPECIFICATION
SITE
TAP IN WIRELESS ROAMING EVENT
TAP OUT WIRELESS ROAMING EVENT
VENDOR
VENDOR AGREEMENT
VENDOR APPOINTMENT
VENDOR CLASS
VENDOR RATING
VENDOR SITE
VENDOR SITE COURIER ASSIGNMENT
WIRELESS ROAMING EVENT
WIRELESS ROAMING EVENT BATCH

Subject Area: Payment

Table 2–18 lists the entities associated with the subject area Payment.

Table 2–18 Entities of Subject Area: Payment

Payment Entity List
ACCOUNT
ACCOUNT BALANCE IMPACT
ACCOUNT BALANCE TYPE
ACCOUNT PAYMENT
ACCOUNT PAYMENT METHOD

Table 2–18 (Cont.) Entities of Subject Area: Payment

Payment Entity List
ACCOUNT PAYMENT METHOD STATUS
ACCOUNT PAYMENT METHOD STATUS TYPE
ACCOUNT REFUND REASON
AGREEMENT
BANK
CURRENCY
CUSTOMER
EMPLOYEE
EVENT
INVOICE
INVOICE ADJUSTMENT
INVOICE PAYMENT ASSIGNMENT
INVOICE PAYMENT TERM TYPE
ORGANIZATION BUSINESS UNIT
PARTY ACCOUNT ASSIGNMENT
PARTY ACCOUNT ASSIGNMENT TYPE
PAYMENT CHANNEL
PAYMENT METHOD TYPE
PAYMENT TRANSACTION TYPE

Subject Area: Prepaid-Balance and Voucher

Table 2–10 lists the entities associated with the subject area Prepaid Balance and Voucher.

Table 2–19 Entities of Subject Area: Prepaid Balance and Voucher

Prepaid Balance and Voucher Entity List
ACCOUNT
ACCOUNT BALANCE TYPE
ACCOUNT PAYMENT
EVENT
HOME SUBSCRIBER SERVER
IN PLATFORM
IN ROUTING DEVICE
ITEM SPECIFICATION
PARTY
PREPAID MOBILE EVENT TYPE
PREPAID RECHARGE
PREPAID VOUCHER

Table 2–19 (Cont.) Entities of Subject Area: Prepaid Balance and Voucher

Prepaid Balance and Voucher Entity List
PREPAID VOUCHER BATCH
PREPAID VOUCHER RECHARGE OPTION
PREPAID VOUCHER SPECIFICATION
PRODUCT
PRODUCT SPECIFICATION
UNIT OF MEASURE

Subject Area: Problem

Table 2–20 lists the entities associated with the subject area Problem.

Table 2–20 Entities of Subject Area: Problem

Problem Entity List
ACCOUNT
ADDRESS LOCATION
CUSTOMER FACING SERVICE
CUSTOMER FIELD SERVICE ACTIVITY
EMPLOYEE
EVENT PARTY INTERACTION
FAULT RESOLUTION TYPE
FAULT TYPE
INTERACTION DIRECTION
INTERACTION RESULT TYPE
INTERACTION STATUS
INTERACTION TYPE
PROBLEM
PROBLEM COMMENTS
PROBLEM ESCALATION LEVEL
PROBLEM LOCATION ASSIGNMENT
PROBLEM RELATIONSHIP
PROBLEM RESOURCE ASSIGNMENT
PROBLEM SERVICE ASSIGNMENT
PROBLEM STATUS HISTORY
PROBLEM TRACKING RECORD ASSIGNMENT
PROBLEM TROUBLE TICKET ASSIGNMENT
PRODUCT SUBSCRIPTION
RESOURCE
RESOURCE FAULT ASSIGNMENT
SERVICE

Table 2–20 (Cont.) Entities of Subject Area: Problem

Problem Entity List
SERVICE PROBLEM
SERVICE PROBLEM RESOURCE ALARM ASSIGNMENT
SERVICE PROBLEM SERVICE ASSIGNMENT
SERVICE PROBLEM SUBSCRIPTION ASSIGNMENT
TRACKING RECORD
TROUBLE TICKET

Subject Area: Process

Table 2–21 lists the entities associated with the subject area Process.

Table 2–21 Entities of Subject Area: Process

Process Entity List
COST
FLEXIBLE CHARACTERISTIC
FLEXIBLE CHARACTERISTIC VALUE ASSIGNMENT
INVOICE
INVOICE DELIVERY FORMAT
INVOICE DELIVERY TYPE
INVOICE PROCESS ASSIGNMENT
PROCESS
PROCESS COST
PROCESS EVENT
PROCESS EVENT ASSIGNMENT
PROCESS EVENT PARAMETER VALUE OPERATOR ASSIGNMENT
PROCESS INVOICE DISPATCHING EVENT
PROCESS INVOICE GENERATION EVENT
PROCESS INVOICE ISSUING EVENT
PROCESS PARAMETER
PROCESS PARAMETER ASSIGNMENT
PROCESS PARAMETER OPERATOR
PROCESS PARAMETER VALUE
PROCESS RELATIONSHIP
PROCESS RELATIONSHIP TYPE
PROCESS SPECIFICATION
PROCESS STATUS
PROCESS TYPE

Subject Area: Product Offering and Product Subscription

Table 2–22 lists the entities associated with the subject area Product Offering and Product Subscription.

Table 2–22 Entities of Subject Area: Product Offering and Product Subscription

Product Offer and Product Subscription Entity List
PRODUCT OFFERING
PRODUCT OFFERING ASSIGNMENT TYPE
PRODUCT OFFERING AVAILABILITY
PRODUCT OFFERING COST
PRODUCT OFFERING DOCUMENT REQUIREMENT
PRODUCT OFFERING GEOGRAPHY ASSIGNMENT
PRODUCT OFFERING GROUP
PRODUCT OFFERING GROUP ASSIGNMENT
PRODUCT OFFERING GROUP TYPE
PRODUCT OFFERING MANAGEMENT
PRODUCT OFFERING MARKET SEGMENT AVAILABILITY
PRODUCT OFFERING ORGANIZATION AVAILABILITY
PRODUCT OFFERING PRICE
PRODUCT OFFERING PRICE COMPONENT
PRODUCT OFFERING PRICE COMPOSITE
PRODUCT OFFERING PRICE POLICY ACTION
PRODUCT OFFERING PRICE POLICY CONDITION
PRODUCT OFFERING PRICE POLICY VALUE
PRODUCT OFFERING PRICE POLICY VARIABLE
PRODUCT OFFERING PRICE RECURRING
PRODUCT OFFERING PRICE RELATIONSHIP
PRODUCT OFFERING PRICE TYPE
PRODUCT OFFERING PRODUCT ASSIGNMENT
PRODUCT OFFERING PRODUCT OFFERING PRICE ASSIGNMENT
PRODUCT OFFERING RATING PLAN
PRODUCT OFFERING RATING PLAN DETAIL
PRODUCT OFFERING RELATIONSHIP
PRODUCT OFFERING RELATIONSHIP TYPE
PRODUCT OFFERING SUBSTITUTE BY DOC
PRODUCT OFFERING TERM
PRODUCT SPEC CHAR RESOURCE SPEC CHAR ASSIGNMENT
PRODUCT SPEC CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT
PRODUCT SPECIFICATION GROUP
PRODUCT SPECIFICATION GROUP TYPE

Table 2–22 (Cont.) Entities of Subject Area: Product Offering and Product Subscription

Product Offer and Product Subscription Entity List
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION ADDITIONAL TEXT
PRODUCT SPECIFICATION ASSIGNMENT REASON
PRODUCT SPECIFICATION CATEGORY
PRODUCT SPECIFICATION CHARACTERISTIC
PRODUCT SPECIFICATION CHARACTERISTIC CONFIGURABLE ASSIGNMENT
PRODUCT SPECIFICATION CHARACTERISTIC RELATIONSHIP
PRODUCT SPECIFICATION CHARACTERISTIC USE
PRODUCT SPECIFICATION CHARACTERISTIC VALUE
PRODUCT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
PRODUCT SPECIFICATION CHARACTERISTIC VALUE USE
PRODUCT SPECIFICATION COLUMN
PRODUCT SPECIFICATION COST
PRODUCT SPECIFICATION COVERAGE AREA TYPE
PRODUCT SPECIFICATION COVERAGE GEO DETAIL
PRODUCT SPECIFICATION GROUP ASSIGNMENT
PRODUCT SPECIFICATION HISTORY
PRODUCT SPECIFICATION MANAGEMENT HISTORY
PRODUCT SPECIFICATION MANAGEMENT REASON
PRODUCT SPECIFICATION MANAGEMENT ROLE
PRODUCT SPECIFICATION NETWORK ASSIGNMENT
PRODUCT SPECIFICATION RELATIONSHIP
PRODUCT SPECIFICATION STATUS HISTORY
PRODUCT SPECIFICATION STATUS TYPE
PRODUCT SPECIFICATION TYPE
PRODUCT SPECIFICATION VERSION

Subject Area: Product Subscription

Table 2–10 lists the entities associated with the subject area Product Subscription.

Table 2–23 Entities of Subject Area: Product Subscription

Product Subscription Entity List
ACCESS METHOD PRODUCT SUBSCRIPTION ASSIGNMENT
ACCOUNT
AGREEMENT
ALLOWANCE SBRP PRICE ALTERNATION
CALL FORWARD
CALLER ID

Table 2–23 (Cont.) Entities of Subject Area: Product Subscription

Product Subscription Entity List
CAMPAIGN CHANNEL
CHANNEL
COMPOSITE PRODUCT SPECIFICATION
COMPOSITE PRODUCT SUBSCRIPTION PRICE
CUSTOMER
CUSTOMER FACING SERVICE
DISCOUNT SBRP PRICE ALTERATION
EQUIPMENT INSTANCE
IDD
MUSIC DOWNLOAD
ORGANIZATION BUSINESS UNIT
PARTY
PARTY PRODUCT SUBSCRIPTION ASSIGNMENT
PARTY PRODUCT SUBSCRIPTION ROLE
PHYSICAL RESOURCE PRODUCT SUBSCRIPTION
PRODUCT
PRODUCT OFFERING
PRODUCT PRICE ALTERATION
PRODUCT PRICE COMPONENT
PRODUCT PRICE PARTY ROLE
PRODUCT SPECIFICATION
PRODUCT SUBSCRIPTION
PRODUCT SUBSCRIPTION ASSIGNMENT
PRODUCT SUBSCRIPTION ASSIGNMENT TYPE
PRODUCT SUBSCRIPTION PRICE
PRODUCT SUBSCRIPTION STATUS
PRODUCT SUBSCRIPTION STATUS CATEGORY
PRODUCT SUBSCRIPTION STATUS HISTORY
PRODUCT SUBSCRIPTION STATUS REASON
PRODUCT SUBSCRIPTION TERM TYPE
PRODUCT SUBSCRIPTION TYPE
RESOURCE ROLE
RINGTONE
SALES CHANNEL REPRESENTATIVE
SERVICE
SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT
SUBSCRIPTION RESOURCE ROLE ASSIGNMENT

Table 2–23 (Cont.) Entities of Subject Area: Product Subscription

Product Subscription Entity List
SUBSCRIPTION SERVICE ASSIGNMENT
SUBSCRIPTION TERM VALUE
VAS SUBSCRIPTION

Subject Area: Product and Product Specification

Table 2–10 lists the entities associated with the subject area Product and Product Specification.

Table 2–24 Entities of Subject Area: Product and Product Specification

Product and Product Specification Entity List
ACCESSORIES
ADDITIONAL TEXT
BRAND
BROADBAND RATING PLAN
COMMUNICATION SERVICE
COMPOSITE PRODUCT SPECIFICATION
COMPOSITE PRODUCT SPECIFICATION ASSIGNMENT
COMPOSITE PRODUCT SPECIFICATION CHARGE TYPE
CONTENT
CURRENCY
CUSTOMER ORDER
DOCUMENT CONDITION TYPE
DOCUMENT TYPE
EQUIPMENT
EQUIPMENT FUNCTIONALITY
EQUIPMENT FUNCTIONALITY ASSIGNMENT
EQUIPMENT INSTANCE
EXTERNAL OPERATOR
FIXED LINE RATING PLAN
GEOGRAPHY ENTITY
HANDSET MODEL
INVENTORY ITEM STATE
ITEM SPECIFICATION
LANGUAGE
MARKET SEGMENT
NETWORK TOUCHPOINT
ORGANIZATION BUSINESS UNIT
ORGANIZATION ITEM SELLING PRICE

Table 2–24 (Cont.) Entities of Subject Area: Product and Product Specification

Product and Product Specification Entity List
ORGANIZATION WAREHOUSE
PARTY
POLICY
POLICY RULE
POLICY SET
PREPAID VOUCHER
PREPAID VOUCHER SPECIFICATION
PRICE DERIVATION RULE
PRICE TYPE
PRICE TYPE RELATION REASON
PRICE TYPE RELATIONSHIP
PRODUCT
PRODUCT BRAND
PRODUCT CATALOG
PRODUCT CATALOG GEOGRAPHY ASSIGNMENT
PRODUCT CATALOG PRESENTATION TYPE
PRODUCT CATALOG PRODUCT OFFERING ASSIGNMENT
PRODUCT CATALOG SALES CHANNEL ASSIGNMENT
PRODUCT CATALOG TYPE
PRODUCT COVERAGE AREA
PRODUCT FUNCTIONALITY DEPENDENCY
PRODUCT LINE
PRODUCT OFFERING
PRODUCT OFFERING ASSIGNMENT TYPE
PRODUCT OFFERING AVAILABILITY
PRODUCT OFFERING DOCUMENT REQUIREMENT
PRODUCT OFFERING GEOGRAPHY ASSIGNMENT
PRODUCT OFFERING GROUP
PRODUCT OFFERING GROUP ASSIGNMENT
PRODUCT OFFERING GROUP TYPE
PRODUCT OFFERING MARKET SEGMENT AVAILABILITY
PRODUCT OFFERING ORGANIZATION AVAILABILITY
PRODUCT OFFERING PRICE
PRODUCT OFFERING PRICE TYPE
PRODUCT OFFERING PRODUCT ASSIGNMENT
PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT
PRODUCT OFFERING RELATIONSHIP

Table 2–24 (Cont.) Entities of Subject Area: Product and Product Specification

Product and Product Specification Entity List
PRODUCT OFFERING RELATIONSHIP TYPE
PRODUCT OFFERING SUBSTITUTE BY DOC
PRODUCT OFFERING TERM
PRODUCT OFFERING TYPE
PRODUCT SPECIFICATION GROUP
PRODUCT SPECIFICATION GROUP TYPE
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION ADDITIONAL TEXT
PRODUCT SPECIFICATION ASSIGNMENT REASON
PRODUCT SPECIFICATION CATEGORY
PRODUCT SPECIFICATION CHARACTERISTIC
PRODUCT SPECIFICATION CHARACTERISTIC RELATIONSHIP
PRODUCT SPECIFICATION CHARACTERISTIC USE
PRODUCT SPECIFICATION CHARACTERISTIC VALUE
PRODUCT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
PRODUCT SPECIFICATION CHARACTERISTIC VALUE USE
PRODUCT SPECIFICATION COVERAGE AREA TYPE
PRODUCT SPECIFICATION COVERAGE GEO DETAIL
PRODUCT SPECIFICATION GROUP ASSIGNMENT
PRODUCT SPECIFICATION MANAGEMENT HISTORY
PRODUCT SPECIFICATION MANAGEMENT REASON
PRODUCT SPECIFICATION MANAGEMENT ROLE
PRODUCT SPECIFICATION NETWORK ASSIGNMENT
PRODUCT SPECIFICATION RELATIONSHIP
PRODUCT SPECIFICATION STATUS HISTORY
PRODUCT SPECIFICATION STATUS TYPE
PRODUCT SPECIFICATION TYPE
PRODUCT SPECIFICATION VERSION
PRODUCT STATUS HISTORY
PRODUCT STATUS TYPE
RATING METHOD TYPE
SALES CHANNEL
SERVICE SPECIFICATION
SET TOP BOX MODEL
SSIM CARD
SIM CARD HANDSET ASSIGNMENT
SMS RATING PLAN

Table 2–24 (Cont.) Entities of Subject Area: Product and Product Specification

Product and Product Specification Entity List
TV CHANNEL
VALUE ADDED SERVICE
VENDOR
WIRELESS RATING PLAN

Subject Area: Promotion and Campaign

Table 2–10 lists the entities associated with the subject area Promotion and Campaign.

Table 2–25 Entities of Subject Area: Promotion and Campaign

Promotion and Campaign Entity List
CAMPAIGN
CAMPAIGN CHANNEL
CAMPAIGN CHANNEL ASSIGNMENT
CAMPAIGN CHANNEL TYPE
CAMPAIGN CHARACTERISTIC
CAMPAIGN CHARACTERISTIC VALUE
CAMPAIGN MANAGEMENT HISTORY
CAMPAIGN MESSAGE
CAMPAIGN MESSAGE CREATIVE
CAMPAIGN MESSAGE DEPICTION
CAMPAIGN RELATIONSHIP
CAMPAIGN STATUS
CAMPAIGN TERM VALUE
CAMPAIGN TYPE
CONTACT LIST
CONTACT LIST CHANGE REASON
CONTACT LIST RECURRENCE TYPE
CUSTOMER SEGMENT
EVENT PARTY INTERACTION
GEOGRAPHY ENTITY
INITIATIVE TYPE
MARKET AREA
MARKET SEGMENT
MARKET SEGMENT INCLUSION
MEDIA OBJECT
MEDIA OBJECT ASSIGNMENT
MEDIA OBJECT TYPE
ORGANIZATION BUSINESS UNIT

Table 2–25 (Cont.) Entities of Subject Area: Promotion and Campaign

Promotion and Campaign Entity List
PARTNER PROMOTION PROGRAM
PARTY
PARTY CONTACT LIST PARTICIPATION
PARTY CONTACT LIST ROLE
PARTY MANAGEMENT ROLE
PARTY MARKET SEGMENT ASSIGNMENT
PARTY PROMOTION RESPONSE
PRODUCT
PROMOTION
PROMOTION CLUSTER USAGE
PROMOTION CONTACT LIST UTILIZATION
PROMOTION MANAGEMENT HISTORY
PROMOTION MESSAGE RENDERING
PROMOTION PRODUCT CATALOG ASSIGNMENT
PROMOTION PRODUCT OFFERING ASSIGNMENT
PROMOTION RELATIONSHIP
PROMOTION RESULT TYPE
PROMOTION SALES CHANNEL ASSIGNMENT
PROMOTION TERM TYPE
PROMOTION TERM VALUE
PROMOTION TYPE
PROPOSAL
PROPOSAL RELATIONSHIP
PROSPECT
PROSPECT PRIORITY TYPE
PROSPECT QUALITY SCORE TYPE
PROSPECT QUALITY SCORE VALUE
PROSPECT REJECT REASON
PUBLICATION
SALES CHANNEL
SOURCE SYSTEM
SOURCE SYSTEM TYPE
SURVEY
TARGET ACCESS METHOD
TARGET ACCOUNT
TARGET AGREEMENT
TARGET GEOGRAPHY AREA

Table 2–25 (Cont.) Entities of Subject Area: Promotion and Campaign

Promotion and Campaign Entity List
TARGET MARKET SEGMENT
TARGET TYPE

Subject Area: QoS

Table 2–10 lists the entities associated with the subject area Quality of Service (QoS).

Table 2–26 Entities of Subject Area: QoS

QoS Entity List
802 SERVICE
AF SERVICE
CLASS BASE WEIGHTED FAIR QUEUE SERVICE
CLASSIFIER SERVICE
COMPOUND CONDITIONING ELEMENT
CUSTOM QUEUING SERVICE
DEFICIT ROUND ROBIN SCHEDULING SERVICE
DIFFSERV SERVICE
DROPPER SERVICE
EF SERVICE
FAIR QUEUING SERVICE
HEAD TAIL DROPPER SERVICE
MARKER POOL
MARKER SERVICE
MARKER SERVICE MARKER POOL ASSIGNMENT
MARKER TYPE
METER PROFILE
METER SERVICE
METER SERVICE PROFILE ASSIGNMENT
NETWORK FORWARDING SERVICE
POLICIER SERVICE
PREAMBLE MARKER SERVICE
PREAMBLE MARKING DETAILS ASSIGNMENT
PRIORITY QUEUING SERVICE
QOS SERVICE
QOS SERVICE RELATIONSHIP
QOS SERVICE SPEC TYPE
QUEUE SERVICE
RED DROPPER SERVICE
RED SERVICE ELEMENT

Table 2–26 (Cont.) Entities of Subject Area: QoS

QoS Entity List
RESOURCE FACING SERVICE
ROUND ROBIN SCHEDULING SERVICE
SCHEDULING SERVICE
SCHEDULING SERVICE ATOMIC
SCHEDULING SERVICE COMPOSITE
SHAPER SERVICE
STANDARD MARKER SERVICE
STRICT SCHEDULING SERVICE
TOKEN BUCKET
TOS SERVICE
TRAFFIC CONDITIONING SERVICE
TRAFFIC IDENTIFICATION SERVICE
TRAFFIC MATCH CRITERIA
WEIGHTED FAIR QUEUING SERVICE
WEIGHTED ROUND ROBIN SCHEDULING SERVICE

Subject Area: Resource

Table 2–10 lists the entities associated with the subject area Resource.

Table 2–27 Entities of Subject Area: Resource

Resource Entity List
ACCESS METHOD
ADDRESS LOCATION
CABLE
CAPACITY
CARD
CELL SITE
CELL SITE TYPE
CIRCUIT CATEGORY
CIRCUIT COMPONENT
CIRCUIT RENTAL
CIRCUIT RENTAL EVENT TYPE
CIRCUIT TRAFFIC
CIRCUIT TYPE
COMPOUND RESOURCE
COMPOUND RESOURCE SPEC
CONNECTION
DEVICE INTERFACE

Table 2–27 (Cont.) Entities of Subject Area: Resource

Resource Entity List
EMPLOYEE
EQUIPMENT CENTER
EQUIPMENT HOLDER
EVENT CIRCUIT RENTAL
EXTERNAL OPERATOR
FIXED LINE PORT
HARDWARE
IN PLATFORM
IN ROUTING DEVICE
LOCAL ADDRESS LOCATION
LOGICAL DEVICE
LOGICAL RESOURCE
LOGICAL RESOURCE PHYSICAL SUPPORT
MANAGED HARDWARE
MANAGED TRANSMISSION ENTITY
MOBILE SWITCHING CENTER
NETWORK
NETWORK ADDRESS
NETWORK ASSIGNMENT
NETWORK ASSIGNMENT TYPE
NETWORK CAPACITY
NETWORK ROUTE
NETWORK ROUTE POINT
NETWORK ROUTE POINT ASSIGNMENT
NETWORK SERVICE COVERAGE ASSIGNMENT
NETWORK SERVICE COVERAGE ASSIGNMENT
NETWORK TOUCHPOINT
NETWORK TOUCHPOINT CLASS
NETWORK TOUCHPOINT TYPE
NETWORK TYPE
OPERATING SYSTEM
PARTY
PHYSICAL COMPONENT
PHYSICAL CONNECTOR
PHYSICAL CONTAINER
PHYSICAL DEVICE
PHYSICAL EQUIPMENT

Table 2–27 (Cont.) Entities of Subject Area: Resource

Resource Entity List
PHYSICAL LINK
PHYSICAL PORT
PHYSICAL RESOURCE
PHYSICAL RESOURCE SPECIFICATION
PIPE
PRODUCT SPECIFICATION
PROTOCOL
RESOURCE
RESOURCE PARTY ASSOCIATION
RESOURCE PARTY MANAGEMENT
RESOURCE RELATIONSHIP
RESOURCE RELATIONSHIP TYPE
RESOURCE ROLE
RESOURCE ROLE SPECIFICATION
RESOURCE SPECIFICATION CATEGORY
RESOURCE SPECIFICATION
RESOURCE STATE HISTORY
RESOURCE STATE REASON
RESOURCE STATE TYPE
ROUTER
SERVICE COVERAGE AREA
SERVICE COVERAGE AREA TYPE
SERVICE COVERAGE GEO DETAIL
SERVICE EQUIPMENT ASSIGNMENT
SITE
SITE TYPE
SOFTWARE
SPECTRUM COVERAGE AREA
SWITCH
SWITCH CAPABILITY
SWITCH CAPABILITY TYPE
SWITCH ROUTING DEVICE ASSIGNMENT
SWITCH TYPE
TECHNOLOGY
TECHNOLOGY TYPE
TERMINATION POINT
TRAIL

Table 2–27 (Cont.) Entities of Subject Area: Resource

Resource Entity List
VENDOR
WIRELESS SPECTRUM

Subject Area: Service and Service Specification

Table 2–10 lists the entities associated with the subject area Service and Service Specification.

Table 2–28 Entities of Subject Area: Service and Service Specification

Service and Service Specification Entity List
ACCESS METHOD SERVICE ASSIGNMENT
ACCOUNT
ADDRESS LOCATION
BROADBAND SERVICE
BUSINESS INTERACTION
BUSINESS INTERACTION ITEM
COMPOSITE SERVICE
COMPOSITE SERVICE INCLUSION
COMPOSITE SERVICE TYPE INCLUSION
COST
CUSTOMER FACING SERVICE
CUSTOMER FACING SERVICE ROLE
CUSTOMER FACING SERVICE SPECIFICATION
CUSTOMER FACING SERVICE SPECIFICATION ATOMIC
CUSTOMER FACING SERVICE SPECIFICATION COMPOSITE
CUSTOMER FACING SERVICE SPECIFICATION ROLE
CUSTOMER FACING SERVICE SPECIFICATION VERSION
EMAIL SERVICE
FDA
FIXED LINE SERVICE
FSAM
GEOGRAPHY CITY
GPRS SERVICE
MMS SERVICE
NETWORK SITE
PARTY
PARTY SERVICE ASSIGNMENT
PARTY SERVICE ASSIGNMENT REASON
PARTY SERVICE ASSIGNMENT ROLE

Table 2–28 (Cont.) Entities of Subject Area: Service and Service Specification

Service and Service Specification Entity List
PAY TV SERVICE
PRODUCT
PRODUCT SUBSCRIPTION
QOS SERVICE
QOS SERVICE SPEC TYPE
RESOURCE
RESOURCE FACING SERVICE
RESOURCE FACING SERVICE ROLE
RESOURCE FACING SERVICE SPEC VERSION
RESOURCE FACING SERVICE SPECIFICATION
RESOURCE FACING SERVICE SPECIFICATION ATOMIC
RESOURCE FACING SERVICE SPECIFICATION COMPOSITE
RESOURCE FACING SERVICE SPECIFICATION ROLE
RESOURCE SPECIFICATION
SERVICE
SERVICE BUNDLE
SERVICE BUNDLE SPECIFICATION
SERVICE BUNDLE SPECIFICATION ATOMIC
SERVICE BUNDLE SPECIFICATION COMPOSITE
SERVICE COVERAGE AREA
SERVICE COVERAGE AREA TYPE
SERVICE COVERAGE GEO DETAIL
SERVICE DEPENDENCY
SERVICE LR DEPENDENCY
SERVICE ORDER
SERVICE ORDER LINE ITEM
SERVICE PACKAGE
SERVICE PACKAGE SPECIFICATION
SERVICE PACKAGE SPECIFICATION ATOMIC
SERVICE PACKAGE SPECIFICATION COMPOSITE
SERVICE PR DEPENDENCY
SERVICE RESOURCE ASSIGNMENT
SERVICE ROLE
SERVICE SPECIFICATION
SERVICE SPECIFICATION ATOMIC
SERVICE SPECIFICATION CHARACTERISTIC
SERVICE SPECIFICATION CHARACTERISTIC VALUE

Table 2–28 (Cont.) Entities of Subject Area: Service and Service Specification

Service and Service Specification Entity List
SERVICE SPECIFICATION COMPOSITE
SERVICE SPECIFICATION PRODUCT SPECIFICATION RELATIONSHIP
SERVICE SPECIFICATION RESOURCE SPEC RELATIONSHIP
SERVICE SPECIFICATION ROLE
SERVICE SPECIFICATION VERSION
SERVICE STATUS
SERVICE STATUS CATEGORY
SERVICE STATUS HISTORY
SERVICE STATUS REASON
SIM CARD
SMS SERVICE
UDR EVENT
VOICE MESSAGE SERVICE
VPN SERVICE
WIRELESS SERVICE

Subject Area: UDR Event

Table 2–10 lists the entities associated with the subject area UDR Event.

Table 2–29 Entities of Subject Area: UDR Event

UDR Event Entity List
ACCESS METHOD
ACCOUNT
ACCOUNT BALANCE GROUP
ACCOUNT BALANCE IMPACT
ACCOUNT BALANCE TYPE
BILLING STATUS CATEGORY
BILLING STATUS REASON
BILLING STATUS TYPE
BROADBAND USAGE EVENT
CALL CATEGORY
CALL DIRECTION
CALL OTHER TYPE
CALL RECYCLED REASON
CALL ROUTING TYPE
CALL SERVICE TYPE
CALL SOURCE DESTINATION
CALL SURCHARGE

Table 2–29 (Cont.) Entities of Subject Area: UDR Event

UDR Event Entity List
CALL TERMINATION REASON
CELL SITE
CONTENT
CONTENT DELIVERY EVENT
CUSTOMER
DATA SERVICE EVENT
DISTANCE BAND
ERRORED MEDIATED CALL EVENT
ERRORED RATED WIRELESS CALL EVENT
ERRORED RAW WIRELESS CALL EVENT
EVENT
EXTERNAL OPERATOR
FIXED LINE CALL EVENT
FRAUD PROFILE CLASS
GL ACCOUNT
GPRS USAGE EVENT
IDD CALL EVENT
INTERNET ACCESS EVENT
INVOICE ITEM
ISP USAGE EVENT
MEDIATED CALL EVENT
MEDIATION STATUS CATEGORY
MEDIATION STATUS REASON
MEDIATION STATUS TYPE
MMS EVENT
ON OFF NET TYPE
PEAK OFFPEAK TIME
PRODUCT
PRODUCT OFFERING
PRODUCT SPECIFICATION
PRODUCT SUBSCRIPTION
PTV FULL CHANNEL ACTIVATION
PTV QPI SERVICE EVENT
PTV USAGE EVENT
RATABLE UNIT MEASUREMENT
RATED UDR EVENT
RAW MMS EVENT

Table 2–29 (Cont.) Entities of Subject Area: UDR Event

UDR Event Entity List
RAW WIRELESS CALL EVENT
RESOURCE
ROAMING TYPE
SERVICE
SERVICE CLASS
SERVICE CLASS TYPE
SMS EVENT
TAP IN WIRELESS ROAMING EVENT
TAP OUT WIRELESS ROAMING EVENT
TIME BAND
TV CHANNEL
UDR EVENT
UDR EVENT ASSIGNMENT
UDR EVENT STATUS
UDR EVENT TYPE
UDR EVENT TYPE VERSION
UMS EVENT
UNIT OF MEASURE
VOIP CALL EVENT
VOLUME BAND
WIRELESS CALL EVENT
WIRELESS CONTENT DOWNLOADING EVENT
WIRELESS ROAMING EVENT
WIRELESS ROAMING EVENT BATCH

Logical Entities for Business Areas

These business areas lists contain the logical entities in the data model grouped by business area.

> **Note:** The notion of a business area is not strict. That is, some business areas are overlapping. Thus, a logical entity can belong to, or be needed in, several business areas. Some logical entities are not explicitly listed because they either only represent a relationship between tables, are not critically important to any business area, or are simply lookup entities. For more information, see Section , "About Business Areas and Subject Areas in Oracle Communications Data Model".

The following are the business area logical data model entities:

- Business Area: Cost

- Business Area: Customer Management
- Business Area: Marketing
- Business Area: Network
- Business Area: Partner Management
- Business Area: Product Management
- Business Area: Provisioning and Service
- Business Area: Revenue

Note: The business area figures showing complete diagrams with attributes and entities are available with the Oracle Communications Data Model IP Patch. The IP Patch includes additional documentation. To obtain the IP Patch and for the latest information about Oracle Communications Data Model patch sets, go to My Oracle Support at https://support.oracle.com.

Business Area: Cost

Table 2–30 lists the logical entities for Cost.

Table 2–30 Cost Business Area Logical Entities

Cost Entity List
ACCOUNT COST
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
BUSINESS WEEK
BUSINESS YEAR
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
CAMPAIGN COST
CELL SITE COST
CHANNEL COST
COMPOSITE PRODUCT SPECIFICATION
CONTACT LIST COST
COST
COST CENTER BUDGET
COST REASON

Table 2–30 (Cont.) Cost Business Area Logical Entities

Cost Entity List
COST SUBTYPE
COST TYPE
COURIER COST
CUSTOMER
CUSTOMER CLASS
CUSTOMER CLASS ASSIGNMENT
CUSTOMER COST
CUSTOMER SCORE
CUSTOMER SEGMENT
CUSTOMER SOURCE
CUSTOMER TYPE
DAY
EMPLOYEE ACTUAL LABOR HOURLY
EMPLOYEE ACTUAL LABOR SALARIED
EMPLOYEE COST
EMPLOYEE TYPE
EQUIPMENT
EQUIPMENT CENTER COST
EVENT COST
EVENT EMPLOYEE PAYROLL
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
HANDSET MODEL
INVOICE PAYMENT ASSIGNMENT
MEDIA OBJECT COST
ORGANIZATION AREA
ORGANIZATION BANNER
ORGANIZATION BUSINESS UNIT
ORGANIZATION BUSINESS UNIT COST
ORGANIZATION CHAIN
ORGANIZATION COMPANY
ORGANIZATION CORPORATE
ORGANIZATION DISTRICT

Table 2–30 (Cont.) Cost Business Area Logical Entities

Cost Entity List
ORGANIZATION DIVISION
ORGANIZATION REGION
ORGANIZATION WAREHOUSE
PARTY ORDER ASSIGNMENT
PAY CATEGORY
PAY TYPE
PLANNING PERIOD
PLANNING QUARTER
PLANNING SEASON
PLANNING WEEK
PLANNING YEAR
PRODUCT OFFERING COST
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION COST
PRODUCT SPECIFICATION TYPE
PROMOTION COST
SALES CHANNEL
SELLING LOCATION TYPE
SUBSIDY TYPE
TIME SLOT
TIME STANDARD BY DAY
TIME STANDARD BY WEEK

Business Area: Customer Management

Table 2–31 lists the logical entities for Customer Management.

Table 2–31 Customer Management Business Area Logical Entities

Customer Management Entity List
ACCESS METHOD ACCOUNT ASSIGNMENT
ACCESS METHOD ASSIGNMENT
ACCESS METHOD ELEMENT
ACCESS METHOD EQUIPMENT ASSIGNMENT
ACCESS METHOD GEOGRAPHY ASSIGNMENT
ACCESS METHOD PARTY ASSIGNMENT
ACCESS METHOD POOL
ACCESS METHOD PRODUCT SUBSCRIPTION ASSIGNMENT
ACCESS METHOD SEGMENT
ACCESS METHOD SEGMENT PROD CAPABILITY RL

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
ACCESS METHOD STATUS HISTORY
ACCESS METHOD TYPE
ACCOUNT ADJUSTMENT REASON
ACCOUNT AGREEMENT RELATIONSHIP
ACCOUNT ASSIGNMENT
ACCOUNT ASSIGNMENT REASON
ACCOUNT BALANCE ADJUSTMENT TYPE
ACCOUNT BALANCE TYPE
ACCOUNT BILLING CYCLE HISTORY
ACCOUNT BILLING FREQUENCY HISTORY
ACCOUNT BILLING PERIOD HISTORY
ACCOUNT CREDIT LIMIT
ACCOUNT EVENT TYPE
ACCOUNT MANAGEMENT HISTORY
ACCOUNT PARTY PRODUCT OFFERING RELATIONSHIP
ACCOUNT PAYMENT METHOD STATUS
ACCOUNT PAYMENT METHOD STATUS REASON
ACCOUNT PAYMENT METHOD STATUS TYPE
ACCOUNT PREFERRED INVOICE DELIVERY
ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY
ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT
ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT REASON
ACCOUNT PROFILE
ACCOUNT REFUND REASON
ACCOUNT SEGMENT
ACCOUNT SEGMENT ASSIGNMENT HISTORY
ACCOUNT SEGMENTATION MODEL
ACCOUNT STATUS HISTORY
ACCOUNT STATUS REASON
ACCOUNT STATUS TYPE
ACCOUNT TYPE
ACCOUNTING CYCLE
ACCOUNTING ITEM CATEGORY
ADDRESS LOCATION
ADDRESS RELATED
ADDRESS STATUS
AGE BAND

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
AGE ON NET BAND
AGREEMENT
AGREEMENT APPROVAL
AGREEMENT ASSIGNMENT
AGREEMENT ASSIGNMENT REASON
AGREEMENT ASSIGNMENT TYPE
AGREEMENT CHANGE INITIATOR TYPE
AGREEMENT CHANGE TYPE
AGREEMENT DOCUMENT
AGREEMENT STATUS
AGREEMENT STATUS TYPE
AGREEMENT TERM TYPE
ARPU BAND
AWARD LEVEL
BANK
BANK DIRECT DEBIT CHANNEL
BARING REASON
BILLING CYCLE
BILLING FREQUENCY
BILLING PERIOD
BILLING STATUS CATEGORY
BILLING STATUS TYPE
BLACK LIST HISTORY
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
BUSINESS UNIT JOB ROLE
BUSINESS UNIT SHIFT
BUSINESS WEEK
BUSINESS YEAR
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
CALL CENTER AGENT
CALL CENTER AGENT TYPE
CALL CENTER CASE SUB TYPE
CALL CENTER CASE TITLE
CALL CENTER CASE TYPE
CALL CENTER SERVICE CAPABILITY
CHANGE PROPOSED BY TYPE
COMPOSITE PRODUCT SPECIFICATION
CREDIT CATEGORY
CURRENCY GEOGRAPHY ENTITY ASSIGNMENT
CUSTOMER
CUSTOMER CLASS
CUSTOMER CLASS ASSIGNMENT
CUSTOMER COST
CUSTOMER FIELD SERVICE ACTIVITY
CUSTOMER FIELD SERVICE DETAIL
CUSTOMER INDIVIDUAL
CUSTOMER OCCASION
CUSTOMER OCCASION TYPE
CUSTOMER ORDER
CUSTOMER ORDER LINE ITEM
CUSTOMER ORDER LINE ITEM STATE ASSIGN
CUSTOMER ORDER PAYMENT
CUSTOMER ORDER STATE ASSIGNMENT
CUSTOMER ORGANIZATION
CUSTOMER RESTRICTED INFO
CUSTOMER REVENUE BAND
CUSTOMER REVENUE BAND ASSIGNMENT
CUSTOMER REVENUE TYPE
CUSTOMER SCORE
CUSTOMER SEGMENT
CUSTOMER SEGMENTATION MODEL
CUSTOMER SIC ASSIGNMENT
CUSTOMER SOURCE
CUSTOMER TYPE
DATA SERVICE EVENT
DAY

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
DAY ACTUAL CONDITION
DAY TODATE TRANSFORMATION
DAY TRANSFORMATION
DEBT AGING BAND
DERIVED VALUE
EDUCATION
EMPLOYEE
EMPLOYEE DESIGNATION
EMPLOYEE DESIGNATION
EMPLOYEE DISCOUNT GROUP ASSIGNMENT
EMPLOYEE JOB ROLE ASSIGNMENT
EMPLOYEE JOB ROLE TYPE
EMPLOYEE RESTRICTED INFO
EMPLOYEE SCHEDULE
EMPLOYEE TRAINING RECORD
EMPLOYEE TYPE
EQUIPMENT
EQUIPMENT RENTING AGREEMENT
EVENT ACCOUNT
EVENT GEOGRAPHY
EVENT LOCATION
EVENT PARTY INTERACTION
EVENT PARTY PROFILE
EVENT PARTY ROLE
EVENT RESOLUTION
EXTERNAL INFORMATION SOURCE
EXTERNAL ORGANIZATION TYPE
FACTOR COMPANY
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
FRAUD PROFILE CLASS
GENDER
GEOGRAPHY CITY

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
GEOGRAPHY COUNTRY
GEOGRAPHY COUNTY
GEOGRAPHY DEMOGRAPHIC GROUP
GEOGRAPHY DEMOGRAPHY ATTRIBUTE
GEOGRAPHY DEMOGRAPHY VALUE
GEOGRAPHY ENTITY
GEOGRAPHY ENTITY ASSIGNMENT
GEOGRAPHY ENTITY HIER LEVEL ASSIGNMENT
GEOGRAPHY HIERARCHY
GEOGRAPHY HIERARCHY LEVEL
GEOGRAPHY HIERARCHY LEVEL ASSIGNMENT
GEOGRAPHY LEVEL
GEOGRAPHY LEVEL ATTRIBUTE
GEOGRAPHY LEVEL ATTRIBUTE VALUE
GEOGRAPHY REGION
GEOGRAPHY STATE
GEOGRAPHY SUB REGION
GEOGRAPHY WORLD
GPRS SERVICE
HALF HOUR
HALF MONTH TODATE TRANSFORMATION
HALF MONTH TRANSFORMATION
HALF YEAR TODATE TRANSFORMATION
HALF YEAR TRANSFORMATION
HOUR
HOUSEHOLD
INITIATIVE RESULT TYPE
INITIATIVE TYPE
INTERACTION ANSWER CHOICE
INTERACTION CHANNEL
INTERACTION DIRECTION
INTERACTION QUESTION RESPONSE
INTERACTION REASON
INTERACTION RESULT TYPE
INTERACTION STATUS
INTERACTION TYPE
INVOICE

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
IP ADDRESS POOL
JOB
JOB ROLE
LANGUAGE
LEGAL PROCESS STATUS TYPE
LETTER TYPE
MAILBOX
MANAGE ACTION TYPE
MARITAL STATUS
MEDIA OBJECT
MUSIC DOWNLOAD
NAICS INDUSTRY SUBSECTOR
NATIONALITY
NP MOBILE MSISDN
NP REQUEST HEADER
NP REQUEST LINE ITEM
NP REQUEST LINE ITEM STATE HISTORY
NP REQUEST LINE ITEM STATE TYPE
NP REQUEST STATE HISTORY
NP REQUEST STATE TYPE
NP REQUEST TYPE
NP STEP
NUMBER AREA
NUMBER COUNTRY
ORDER LINE ITEM STATE
ORDER LINE ITEM STATE
ORDER TYPE
ORGANIZATION AREA
ORGANIZATION BANNER
ORGANIZATION BUSINESS UNIT
ORGANIZATION CHAIN
ORGANIZATION COMPANY
ORGANIZATION CORPORATE
ORGANIZATION DISTRICT
ORGANIZATION DIVISION
ORGANIZATION REGION
OTHER INDIVIDUAL

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
PARTY ACCOUNT ASSIGNMENT
PARTY ACCOUNT ASSIGNMENT TYPE
PARTY ADDRESS LOCATION ASSIGNMENT
PARTY AGREEMENT ASSIGNMENT
PARTY AGREEMENT ASSIGNMENT ROLE
PARTY AGREEMENT ASSIGNMENT TYPE
PARTY ASSIGNMENT
PARTY CONTACT INFORMATION
PARTY CONTACT LIST ROLE
PARTY EVENT TYPE
PARTY GEOGRAPHY ENTITY ASSIGNMENT
PARTY IDENTIFICATION
PARTY IDENTIFICATION TYPE
PARTY ORDER ASSIGNMENT TYPE
PARTY PRODUCT SUBSCRIPTION ASSIGNMENT
PARTY PROMOTION RESPONSE
PARTY ROLE ASSIGNMENT
PARTY ROLE STATUS
PARTY SEGMENTATION METHOD
PARTY SIM CARD ASSIGNMENT
PARTY STATUS CHANGE REASON
PARTY STATUS HISTORY
PAYMENT CHANNEL
PERIOD TO DATE TRANSFORMATION
PERIOD TRANSFORMATION
POSTAL SERVICE TYPE
POSTCODE
PRICE DERIVATION RULE
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION TYPE
PROMOTION
PROMOTION RESULT TYPE
PROMOTION TERM TYPE
PROSPECT
PROSPECT INDIVIDUAL
PROSPECT ORGANIZATION
PTV FULL CHANNEL ACTIVATION

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
PUBLICATION TYPE
QUARTER HOUR
QUARTER TO DATE TRANSFORMATION
QUARTER TRANSFORMATION
REDEMPTION TYPE
RINGTONE
ROLES HIERARCHY
SCRIPT
SCRIPT QUESTION
SCRIPT QUESTION TYPE
SEASON
SECOND
SEGMENT CRITERIA
SEGMENT TYPE
SERVICE REQUEST
SIC ASSIGNMENT
SIC DIVISION
SIC INDUSTRY GROUP
SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT
SOC JOB
SOC JOB CATEGORY
SOC JOB GROUP
SOC JOB MAJOR GROUP
SOURCE SYSTEM
SOURCE SYSTEM KEY MAPPING
SUBSCRIBER ACTIVATION REASON
TAX EXEMPT
TIME SLOT
TIME STANDARD BY DAY
TIME STANDARD BY WEEK
USER
VALUE TYPE
VENDOR FACTOR COMPANY ASSIGNMENT
VIRTUAL TEAM
WEATHER CONDITION
WEEK TODATE TRANSFORMATION
WEEK TRANSFORMATION

Table 2–31 (Cont.) Customer Management Business Area Logical Entities

Customer Management Entity List
YEAR TRANSFORMATION

Business Area: Marketing

Table 2–32 lists the logical entities for Marketing.

Table 2–32 Marketing Business Area Logical Entity

Marketing Entity List
ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY
ADVERTISING PERIOD
ADVERTISING QUARTER
ADVERTISING WEEK
ADVERTISING YEAR
AWARD LEVEL
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
BUSINESS WEEK
BUSINESS YEAR
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
CAMPAIGN
CAMPAIGN CHANNEL
CAMPAIGN CHANNEL TYPE
CAMPAIGN MANAGEMENT HISTORY
CAMPAIGN MESSAGE
CAMPAIGN MESSAGE CREATIVE
CAMPAIGN MESSAGE DEPICTION

Table 2–32 (Cont.) Marketing Business Area Logical Entity

Marketing Entity List
CAMPAIGN PURPOSE TYPE
CAMPAIGN STATUS
CAMPAIGN TYPE
CONTACT LIST
CONTACT LIST CHANGE REASON
CONTACT LIST RECURRENCE TYPE
COST
DAY
DEMOGRAPHY ATTRIBUTE
DEMOGRAPHY GROUP
DSL MODEM
EMPLOYEE DESIGNATION
EMPLOYEE JOB ROLE TYPE
EMPLOYEE TYPE
EQUIPMENT
EVENT LOCATION
EVENT RESPONSE REASON
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
GEOGRAPHY LEVEL ATTRIBUTE
INDIVIDUAL DEMOGRAPHY PROFILE
INDIVIDUAL DEMOGRAPHY VALUE
INITIATIVE TYPE
INTERACTION DIRECTION
INTERACTION REASON
INTERACTION RESULT TYPE
INTERACTION STATUS
INTERACTION TYPE
LETTER TYPE
MANAGE ACTION TYPE
MARKET AREA
MARKET AREA LEVEL
PRODUCT OFFERING TERM

Table 2–32 (Cont.) Marketing Business Area Logical Entity

Marketing Entity List
MEDIA OBJECT
MEDIA OBJECT ASSIGNMENT
ORGANIZATION AREA
ORGANIZATION BANNER
ORGANIZATION BUSINESS UNIT
ORGANIZATION CHAIN
ORGANIZATION COMPANY
ORGANIZATION CORPORATE
ORGANIZATION DISTRICT
ORGANIZATION DIVISION
ORGANIZATION REGION
PARTNER PROMOTION PROGRAM
PARTY CONTACT LIST PARTICIPATION
PARTY CONTACT LIST ROLE
PARTY GEOGRAPHY ENTITY ASSIGNMENT
PARTY MANAGEMENT ROLE
PRODUCT SPECIFICATION
PRODUCT OFFERING
COMPOSITE PRODUCT SPECIFICATION
PRODUCT SPECIFICATION TYPE
PROMOTION
PROMOTION CLUSTER USAGE
PROMOTION CONTACT LIST UTILIZATION
PROMOTION MANAGEMENT HISTORY
PROMOTION RESULT TYPE
PROMOTION TERM VALUE
PUBLICATION
PUBLICATION TYPE
RETAIL STORE
SCRIPT QUESTION TYPE
SEASON
SELLING LOCATION
SOURCE SYSTEM TYPE
TARGET ACCESS METHOD
TARGET ACCOUNT
TARGET AGREEMENT
TARGET GEOGRAPHY AREA

Table 2–32 (Cont.) Marketing Business Area Logical Entity

Marketing Entity List
TARGET TYPE
TIME SLOT
TIME STANDARD BY DAY
TIME STANDARD BY WEEK
WEATHER CONDITION
WEEK TODATE TRANSFORMATION
WEEK TRANSFORMATION
WEEKDAY
YEAR TRANSFORMATION

Business Area: Network

Table 2–33 lists the logical entities for Network.

Table 2–33 Network Business Area Logical Entity

Network Entity List
ADDRESS LOCATION
ANZSIC CLASSIFICATION
BASE STATION CONTROLLER
BASE TRANSCEIVER STATION
BER FER TYPE
BROADBAND SERVICE
BROADBAND RATING PLAN
BROADBAND USAGE EVENT
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
BUSINESS WEEK
BUSINESS YEAR
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
CALL DIRECTION
CALL FORWARD
CALL OTHER TYPE

Table 2–33 (Cont.) Network Business Area Logical Entity

Network Entity List
CALL RECYCLED REASON
CALL SUCCESS FAILURE TYPE
CALL SURCHARGE
CALL TERMINATION REASON
CELL
CELL OUTAGE REASON
CELL SITE
CELL SITE TYPE
CELL TYPE
CIRCUIT CATEGORY
CIRCUIT COMPONENT
CIRCUIT RENTAL
CIRCUIT RENTAL EVENT TYPE
CIRCUIT TRAFFIC
CIRCUIT TYPE
CONTENT DELIVERY EVENT
DAY
DESTINATION TYPE
DISTANCE BAND
DIVERT RETRIEVE REASON
DIVERT RETRIEVE TYPE
EQUIPMENT CENTER
EVENT
EVENT ACCESS METHOD ACTIVITY
EVENT ASSIGNMENT
EVENT ASSIGNMENT REASON
EVENT ASSIGNMENT TYPE
EVENT CATEGORY
EVENT CIRCUIT RENTAL
EVENT CLASS
EVENT COMPOSITE PRODUCT SPECIFICATION
EVENT GEOGRAPHY
EVENT PREPAID MOBILE
EVENT PRODUCT SUBSCRIPTION WIRELESS
EVENT STATUS
EVENT SUBSCRIPTION CHANGE
EXTERNAL OPERATOR

Table 2–33 (Cont.) Network Business Area Logical Entity

Network Entity List
FAULT RESOLUTION TYPE
FAULT TYPE
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
FIXED LINE CALL EVENT
FIXED LINE PORT
GEOGRAPHY CITY
GEOGRAPHY COUNTRY
GEOGRAPHY REGION
GEOGRAPHY STATE
GEOGRAPHY SUB REGION
GEOGRAPHY WORLD
IDD CALL EVENT
IN PLATFORM
INTERACTION DIRECTION
INTERACTION REASON
INTERACTION RESULT TYPE
INTERACTION STATUS
INTERACTION TYPE
INTERNET ACCESS EVENT
LETTER TYPE
LOYALTY PROGRAM
MEDIATED CALL EVENT
MMS EVENT
MOBILE SWITCHING CENTER
MONTH TODATE TRANSFORMATION
MONTH TRANSFORMATION
NETWORK
NETWORK SERVICE COVERAGE ASSIGNMENT
NETWORK TOUCHPOINT
NETWORK TOUCHPOINT CLASS
NETWORK TOUCHPOINT STATUS
NETWORK TOUCHPOINT TYPE

Table 2–33 (Cont.) Network Business Area Logical Entity

Network Entity List
NETWORK TYPE
NOTIFICATION TYPE
NUMBER NETWORK TYPE
ON OFF NET TYPE
PARTY
PACKET CONTROL UNIT OUTAGE REASON
PEAK OFFPEAK TIME
PREPAID MOBILE EVENT TYPE
PROMOTION RESULT TYPE
PROMOTION TERM TYPE
PTV QPI SERVICE EVENT
PUBLICATION TYPE
RESOURCE
RETAIL STORE
RF CARRIER
ROUTING DEVICE
SCRIPT QUESTION TYPE
SEASON
SERVICE CLASS
SERVICE CLASS TYPE
SERVICE COVERAGE AREA
SERVICE COVERAGE AREA TYPE
SERVICE COVERAGE GEO DETAIL
SERVICE EQUIPMENT ASSIGNMENT
SERVICE REQUEST
SMS EVENT
SWITCH
SWITCH CAPABILITY
SWITCH CAPABILITY TYPE
SWITCH COMMAND
SWITCH ROUTING DEVICE ASSIGNMENT
SWITCH TYPE
TCH TYPE
TECHNOLOGY
TECHNOLOGY TYPE
TIME BAND
TIME SLOT

Table 2–33 (Cont.) Network Business Area Logical Entity

Network Entity List
TIME STANDARD BY DAY
TIME STANDARD BY WEEK
UDR EVENT
UDR EVENT STATUS
UDR EVENT TYPE
UMS ACCESS TYPE
UMS EVENT
VAS SUBSCRIPTION
VOIP CALL EVENT
VOLUME BAND
WIRELESS CALL EVENT
WIRELESS CONTENT DOWNLOADING EVENT
YEAR TRANSFORMATION

Business Area: Partner Management

Table 2–34 lists the logical entities for Partner Management.

Table 2–34 Partner Management Business Area Logical Entity

Partner Management Entity List
ACCESS METHOD PORTING HISTORY
APPOINTMENT TYPE
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
COLLECTION AGENCY
CONTENT
CONTENT PRICE
CONTENT PRICING TYPE
CONTENT PROVIDER
CONTENT TYPE
DEAL
DEALER
DEALER DISCOUNT GROUP ASSIGNMENT
DISCOUNT GROUP
EVENT PARTY ASSIGNMENT

Table 2–34 (Cont.) Partner Management Business Area Logical Entity

Partner Management Entity List
EVENT PARTY PROFILE
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
ISP
ISP BUSINESS
ISP BUSINESS ASSIGNMENT
ISP BUSINESS TYPE
ISP TYPE
ISP USER
NP REQUEST LINE ITEM STATE TYPE
NP REQUEST STATE TYPE
NP REQUEST TYPE
NP STEP
OPERATOR GROUP
OPERATOR TYPE
ORGANIZATION BUSINESS UNIT
PARTNER SETTLEMENT REASON
PARTY
PARTY EVENT TYPE
PARTY IDENTIFICATION
PARTY ORDER ASSIGNMENT TYPE
PROMOTION
SIC INDUSTRY GROUP
TIME SLOT
TIME STANDARD BY DAY
TIME STANDARD BY WEEK
VENDOR
VENDOR APPOINTMENT
VENDOR CLASS
VENDOR AGREEMENT
VENDOR RATING
VENDOR RATING TYPE
VENDOR SITE

Table 2–34 (Cont.) Partner Management Business Area Logical Entity

Partner Management Entity List
VENDOR SITE COURIER ASSIGNMENT
VENDOR SITE TYPE

Business Area: Product Management

Table 2–35 lists the logical entities for Product Management.

Table 2–35 Product Management Business Area Logical Entity

Product Management Entity List
ACCESSORIES
ADDITIONAL TEXT
BRAND
BROADBAND RATING PLAN
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
CABLE MODEM
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
CALLER ID
CELL
CELL SECTOR
CELL SITE
CHANGE PROPOSED BY TYPE
CHANNEL
CHANNEL TYPE
COMPOSITE PRODUCT SPECIFICATION
COMPOSITE PRODUCT SPECIFICATION ASSIGNMENT
COMPOSITE PRODUCT SPECIFICATION CHARGE TYPE
CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTIC
CONTENT
DISCOUNT GROUP
DOCUMENT CONDITION TYPE
DOCUMENT TYPE

Table 2–35 (Cont.) Product Management Business Area Logical Entity

Product Management Entity List
EQUIPMENT
EQUIPMENT FUNCTIONALITY
EQUIPMENT FUNCTIONALITY ASSIGNMENT
EQUIPMENT INSTANCE
EQUIPMENT INSTANCE STATUS TYPE
EVENT COMPOSITE PRODUCT SPECIFICATION
EVENT SIM CARD
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
FIXED LINE SERVICE
FIXED LINE RATING PLAN
GIVE AWAY TYPE
HANDSET INSTANCE
HANDSET MODEL
IDD
ITEM SPECIFICATION
LANGUAGE
PRODUCT OFFERING TERM
MINUTE
MMS SERVICE
MODEL TYPE
NAICS CLASSIFICATION
NAICS INDUSTRY
NAICS INDUSTRY GROUP
NAICS INDUSTRY SECTOR
NAICS INDUSTRY SUBSECTOR
NETWORK TOUCHPOINT
ORGANIZATION BUSINESS UNIT
ORGANIZATION ITEM SELLING PRICE
ORGANIZATION WAREHOUSE
PARTY
PAY TV SERVICE
PPA CATEGORY

Table 2–35 (Cont.) Product Management Business Area Logical Entity

Product Management Entity List
PPA DEDUCTION TYPE
PREPAID VOUCHER
PRODUCT
PRODUCT SPECIFICATION ADDITIONAL TEXT
PRODUCT SPECIFICATION ASSIGNMENT REASON
PRODUCT CAPABILITY
PRODUCT CAPABILITY TYPE
PRODUCT CAPABILITY VALUE
PRICE TYPE
PRICE TYPE RELATIONSHIP
PRICE TYPE RELATION REASON
CONFIGURABLE PRODSPECCHAR PRODSPEC ASSIGNMENT
PRODUCT FUNCTIONALITY DEPENDENCY
PRODUCT SPECIFICATION MANAGEMENT HISTORY
PRODUCT SPECIFICATION MANAGEMENT REASON
PRODUCT SPECIFICATION MANAGEMENT ROLE
PRODUCT OFFERING
PRODUCT OFFERING ASSIGNMENT TYPE
PRODUCT OFFERING GEOGRAPHY ASSIGNMENT
PRODUCT OFFERING GROUP
PRODUCT OFFERING GROUP ASSIGNMENT
PRODUCT OFFERING GROUP TYPE
PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT
PRODUCT OFFERING TYPE
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION NETWORK ASSIGNMENT
PRODUCT SPECIFICATION RELATIONSHIP
PRODUCT SPECIFICATION STATUS HISTORY
PRODUCT SPECIFICATION TYPE
PRODUCT SPECIFICATION VERSION
PRODUCT SPECIFICATION STATUS TYPE
RATING METHOD TYPE
SECURITY REQUIRED TYPE
SERVICE
SERVICE CLASS
SERVICE CLASS TYPE
SET TOP BOX

Table 2–35 (Cont.) Product Management Business Area Logical Entity

Product Management Entity List
SET TOP BOX MODEL
SIM CARD
SIM CARD ACCESS METHOD ASSIGNMENT
SIM CARD HANDSET ASSIGNMENT
SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT
SMS RATING PLAN
TIME BAND
TIME SLOT
TIME STANDARD BY WEEK
TV CHANNEL
VALUE ADDED SERVICE
WIRELESS RATING PLAN
YEAR TRANSFORMATION

Business Area: Provisioning and Service

Table 2–36 lists the logical entities for Provisioning and Service.

Table 2–36 Provisioning and Service Business Area Logical Entity

Provisioning and Service Entity List
ACCESS METHOD
ACCESS METHOD ASSIGNMENT TYPE
ACCESS METHOD ELEMENT TYPE
ACCESS METHOD PARTY ASSIGNMENT
ACCESS METHOD STATUS REASON
ACCESS METHOD STATUS TYPE
ACCESS METHOD TYPE
ACCOUNT
ADDRESS LOCATION
AGREEMENT
AGREEMENT TERM
APPOINTMENT CALENDAR
BLACK LIST HISTORY
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
BUSINESS WEEK
BUSINESS YEAR

Table 2–36 (Cont.) Provisioning and Service Business Area Logical Entity

Provisioning and Service Entity List
CALENDAR HALF MONTH
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
CALL CATEGORY
CALL CENTER
CALL CENTER AGENT TYPE
CALL CENTER CASE SUB TYPE
CALL CENTER CASE TITLE
CALL CENTER CASE TYPE
CALL FORWARD
CALL ROUTING TYPE
CALL SOURCE DESTINATION
CALL TYPE
CHANGE PROPOSED BY TYPE
COMPOSITE PRODUCT SPECIFICATION
COURIER
COURIER COST
CUSTOMER
CUSTOMER CLASS
CUSTOMER CLASS ASSIGNMENT
CUSTOMER ORDER
CUSTOMER SCORE
CUSTOMER SEGMENT
CUSTOMER SOURCE
CUSTOMER TYPE
DAY
EQUIPMENT
EVENT ASSIGNMENT REASON
EVENT ASSIGNMENT TYPE
EVENT CATEGORY
EVENT GEOGRAPHY
EVENT RESPONSE REASON
FIELD ACTIVITY RESULT TYPE
FIELD ACTIVITY TYPE

Table 2–36 (Cont.) Provisioning and Service Business Area Logical Entity

Provisioning and Service Entity List
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
GEOGRAPHY CITY
GEOGRAPHY COUNTY
GEOGRAPHY REGION
GEOGRAPHY STATE
GEOGRAPHY SUB REGION
GEOGRAPHY WORLD
INTERACTION DIRECTION
INTERACTION REASON
INTERACTION RESULT TYPE
INTERACTION STATUS
INTERACTION TYPE
ISP USAGE EVENT
ITEM SPECIFICATION
LETTER TYPE
MANAGE ACTION TYPE
PRODUCT OFFERING TERM
UDR EVENT
NP REQUEST LINE ITEM STATE HISTORY
NP REQUEST STATE TYPE
NP REQUEST TYPE
NP STEP
ORDER TYPE
ORGANIZATION AREA
ORGANIZATION BANNER
ORGANIZATION BUSINESS UNIT
ORGANIZATION CHAIN
ORGANIZATION COMPANY
ORGANIZATION CORPORATE
ORGANIZATION DISTRICT
ORGANIZATION DIVISION
ORGANIZATION REGION

Table 2–36 (Cont.) Provisioning and Service Business Area Logical Entity

Provisioning and Service Entity List
OTHER INDIVIDUAL
PARTY AM PRODUCT OFFERING ASSIGNMENT HISTORY
PARTY CONTACT LIST ROLE
PARTY SIM CARD ROLE
PREPAID VOUCHER
PRODUCT OFFERING
PRODUCT OFFERING GEOGRAPHY ASSIGNMENT
PRODUCT OFFERING ORGANIZATION AVAILABILITY
PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT
PRODUCT OFFERING PRICE
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION TYPE
PROMOTION RESULT TYPE
PROMOTION TERM TYPE
PTV USAGE EVENT
PUBLICATION TYPE
SCRIPT QUESTION TYPE
SEASON
SERVICE
SERVICE CLASS
SERVICE CLASS TYPE
SERVICE REQUEST
SIM CARD ACCESS METHOD REASON
SIM CARD ACTIVATION REASON
SIM CARD ACTIVATION TYPE
SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT
SIM CARD TYPE
SUBSCRIBER ACTIVATION REASON
PRODUCT SUBSCRIPTION
TIME SLOT
TIME STANDARD BY DAY
TIME STANDARD BY WEEK
UMS ACCESS TYPE
VOICE MESSAGE SERVICE
YEAR TRANSFORMATION

Business Area: Revenue

Table 2–37 lists the logical entities for Revenue.

Table 2–37 Revenue Business Area Logical Entities

Revenue Entity List
ACCESS METHOD
ACCESS METHOD TYPE
ACCOUNT ACCOUNTING CYCLE HISTORY
ACCOUNT PAYMENT
ACCOUNT PAYMENT METHOD
ADDRESS LOCATION
AGREEMENT
BUSINESS HALF MONTH
BUSINESS HALF YEAR
BUSINESS MONTH
BUSINESS QUARTER
BUSINESS WEEK
BUSINESS YEAR
CALENDAR HALF MONTH
CALENDAR HALF YEAR
CALENDAR MONTH
CALENDAR QUARTER
CALENDAR WEEK
CALENDAR YEAR
CAMPAIGN
CAMPAIGN TYPE
CELL
CELL SITE
COLLECTION AGENCY
COMMISSION TYPE
COMPOSITE PRODUCT SPECIFICATION
CURRENCY EXCHANGE RATE
CUSTOMER
CUSTOMER CLASS
CUSTOMER CLASS ASSIGNMENT
CUSTOMER SCORE
CUSTOMER SEGMENT
CUSTOMER SOURCE
CUSTOMER TYPE

Table 2–37 (Cont.) Revenue Business Area Logical Entities

Revenue Entity List
DAY
DEBT AGING BAND
DIRECT DEBIT STATUS REASON
EQUIPMENT
EVENT FINANCIAL
EVENT LOYALTY PROGRAM
FACTOR COMPANY
FISCAL HALF MONTH
FISCAL HALF YEAR
FISCAL MONTH
FISCAL QUARTER
FISCAL WEEK
FISCAL YEAR
FRAUD PROFILE CLASS
GEOGRAPHY CITY
GEOGRAPHY COUNTRY
GEOGRAPHY COUNTY
GEOGRAPHY REGION
GEOGRAPHY STATE
GEOGRAPHY SUB REGION
GEOGRAPHY WORLD
GL REFERENCE
INVOICE
INVOICE ADJUSTMENT
INVOICE ADJUSTMENT QUOTA
INVOICE ADJUSTMENT REASON
INVOICE ADJUSTMENT TYPE
INVOICE DELIVERY TYPE
INVOICE DISCOUNT
INVOICE DISCOUNT REASON
INVOICE DISCOUNT TYPE
INVOICE ITEM
INVOICE ITEM DETAIL
INVOICE ITEM DETAIL TYPE
INVOICE ITEM TYPE
INVOICE PAYMENT TERM
INVOICE PAYMENT TERM TYPE

Table 2–37 (Cont.) Revenue Business Area Logical Entities

Revenue Entity List
INVOICE TYPE
IP ADDRESS POOL
LANGUAGE
NETWORK
RESOURCE
NETWORK TYPE
ORGANIZATION AREA
ORGANIZATION BANNER
ORGANIZATION BUSINESS ENTITY
ORGANIZATION BUSINESS UNIT
ORGANIZATION BUSINESS UNIT TYPE
ORGANIZATION CHAIN
ORGANIZATION COMPANY
ORGANIZATION CORPORATE
ORGANIZATION DISTRICT
ORGANIZATION DIVISION
ORGANIZATION HIERARCHY
ORGANIZATION HIERARCHY LEVEL
ORGANIZATION HIERARCHY LEVEL ASSIGNMENT
ORGANIZATION HIERARCHY VERSION
ORGANIZATION ITEM SELLING PRICE
ORGANIZATION LEVEL
ORGANIZATION LEVEL ATTRIBUTE VALUE
ORGANIZATION LEVEL ATTRIBUTES
ORGANIZATION MARKET DATA
ORGANIZATION REGION
ORGANIZATION SERVICE WEBSITE
ORGANIZATIONAL DEMOGRAPHY VALUE
PAYMENT METHOD TYPE
PAYMENT TRANSACTION TYPE
PREPAID RECHARGE
PRICE TYPE
PRODUCT OFFERING PRICE
PRODUCT SPECIFICATION
PRODUCT SPECIFICATION TYPE
PRODUCT SUBSCRIPTION
PRODUCT SUBSCRIPTION ASSIGNMENT

Table 2–37 (Cont.) Revenue Business Area Logical Entities

Revenue Entity List
PRODUCT SUBSCRIPTION STATUS CATEGORY
PRODUCT SUBSCRIPTION STATUS HISTORY
PRODUCT SUBSCRIPTION STATUS REASON
PRODUCT SUBSCRIPTION TERM TYPE
PRODUCT SUBSCRIPTION TYPE
PROMOTION
PROMOTION TYPE
RECHARGE REVENUE SLAB
SALES CHANNEL
SALES CHANNEL REPRESENTATIVE
SALES COMMISSION DETAIL
SALES COMMISSION PAYROLL
SALES COMMISSION PLAN
SALES COMMISSION PLAN DETAIL
PRODUCT SUBSCRIPTION ASSIGNMENT TYPE
PRODUCT SUBSCRIPTION EVENT TYPE
SUBSCRIPTION SERVICE CLASS ASSIGNMENT
PRODUCT SUBSCRIPTION STATUS
SUBSCRIPTION TERM VALUE
TAX EXEMPT
TIME SLOT
TIME STANDARD BY DAY
TIME STANDARD BY WEEK
YEAR TRANSFORMATION

Logical Data Model Entity Dictionary

Table 2–38, Table 2–39, Table 2–40, Table 2–41, Table 2–42, Table 2–43, and Table 2–44 list the logical data model entities, in alphabetical order.

Table 2–38 A to C Entity Descriptions

Entity Name	Type	Description
802 SERVICE	Reference	Semantics that define how traffic is forwarded based on the value of the priority field in the 802.1P header.
ACCESS METHOD	Reference	Methods that a customer accesses or uses as a service. For example: ▪ Fixed Line telephone numbers ▪ Wireless telephone numbers ▪ xDSL account ▪ IDD Calling card number
ACCESS METHOD ACCOUNT ASSIGNMENT	Reference	Assigns ACCESS METHODs to an account.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ACCESS METHOD ASSIGNMENT TYPE	Lookup	Type of relationship between two ACCESS METHODs. For example: ■ Replace ■ Bind together
ACCESS METHOD ASSIGNMENT	Reference	Assignment of an ACCESS METHOD to a related ACCESS METHOD.
ACCESS METHOD ELEMENT	Reference	The ACCESS METHOD may be split into multiple elements for better management. Each element is a segment in the ACCESS METHOD, which represents a group of access methods. For example, for the access method for a phone number, where access method elements are: ■ Country code ■ Area code ■ Local number
ACCESS METHOD ELEMENT TYPE	Lookup	Lookup for type of ACCESS METHOD ELEMENT. For example: ■ Country code of phone number ■ Area code of phone number
ACCESS METHOD EQUIPMENT ASSIGNMENT	Reference	How the access method binds to an equipment instance. For example: ■ Cell phone number binds onto a cell phone ■ Login code binds to a modem
ACCESS METHOD GEOGRAPHY ASSIGNMENT	Reference	Assigns the access method to a geographic region.
ACCESS METHOD PARTY ASSIGNMENT	Reference	Assigns access method to a party.
ACCESS METHOD PARTY ASSIGNMENT TYPE	Lookup	Lookup for type of relationship between ACCESS METHOD and PARTY. For example: ■ Management ■ Owned by The management type of access method party relationship specifies that an employee may be responsible for the maintenance of a group of access methods.
ACCESS METHOD POOL	Reference	The logical network resources. For example: ■ Telephone number ■ IP address
ACCESS METHOD PORTING HISTORY	Base	The history of access methods that the customer brought to the operator from another telecom operator, according to the number porting scheme.
ACCESS METHOD PRODUCT SUBSCRIPTION ASSIGNMENT	Reference	Assigns ACCESS METHOD(s) to a PRODUCT SUBSCRIPTION.
ACCESS METHOD SEGMENT	Reference	Segments of ACCESS METHODs defined for usage tracking. For example: ■ Phone number may have the segments: Country_Code + Area_Code + Local_Number ■ IP address may have the segments: Type A, B, C, D, E subnetwork
ACCESS METHOD SEGMENT PROD CAPABILITY RL	Reference	The relationship between ACCESS METHOD SEGMENT and PRODUCT CAPABILITY to define which product capabilities require which access method segment.
ACCESS METHOD SERVICE ASSIGNMENT	Reference	Defines the relationship between a SERVICE and an ACCESS METHOD. For example, which service (gsm voice) is using which mobile number.
ACCESS METHOD STATUS HISTORY	Base	The status of an ACCESS METHOD. Defines both current status and historical status. For example: ■ Active ■ Suspended ■ Deactivated

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ACCESS METHOD STATUS REASON	Lookup	Lookup for available reasons an ACCESS METHOD may have a change in status. For example: ▪ Customer relocation ▪ Suspension due to late-payment
ACCESS METHOD STATUS TYPE	Lookup	Lookup for available ACCESS METHOD status types and descriptions. For example: ▪ Active ▪ Inactive ▪ Suspended ▪ Future Activated
ACCESS METHOD TYPE	Lookup	Lookup for ACCESS METHOD type: Defines the types of methods by which a customer may use or access services or products. For example: ▪ Fixed Line telephone numbers ▪ Wireless telephone numbers ▪ xDSL account ▪ IDD Calling card number
ACCESSORIES	Reference	The accessories that may be purchased from the service provider in addition to the item, product, or service. For example: ▪ Handset chains ▪ Starter kit ▪ Headset (earphones) ▪ USB Cable
ACCESSORIES INSTANCE	Reference	A physical instance of ACCESSORIES which customer has got as part of an option or add-on. An instance can be a specific Handset cover or headset (with Serial Number), loudspeakers, and so on.
ACCOUNT	Reference	The account is generated by a agreement between service provider and customer. For the service provider hosting different network, including CDMA, GSM, broadband, and others, one customer may have a different account for a different network or can be unified. Once set up, a customer can use account for self service from the website or from a Service Provider terminal. In this case the account is normally protected by a password.
ACCOUNT ACCOUNTING CYCLE HISTORY	Base	Billing cycle status history for ACCOUNTs.
ACCOUNT ADJUSTMENT REASON	Lookup	Lookup of all the reasons for adjustments. For example: ▪ Goodwill ▪ Agreement after complaint
ACCOUNT AGREEMENT RELATIONSHIP	Reference	Assignment of ACCOUNT to a AGREEMENT.
ACCOUNT ASSIGNMENT	Reference	Relationship assignments between ACCOUNTs. For example, parent and child accounts.
ACCOUNT ASSIGNMENT REASON	Lookup	Lookup for available reasons ACCOUNTs may be related.
ACCOUNT ASSIGNMENT TYPE	Reference	The type of relationship between two ACCOUNTs. For example, a corporate account has several affiliated accounts.
ACCOUNT BALANCE	Base	This entity keeps a snapshots of ACCOUNT BALANCEs, at different period of time and for different ACCOUNT BALANCE TYPE.
ACCOUNT BALANCE ADJUSTMENT TYPE	Lookup	Lookup of all the types of adjustments. For example: ▪ Free Monthly Fee ▪ Free Service ▪ Direct credit amount

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ACCOUNT BALANCE GROUP	Reference	The balance group concept allows one account to have multiple balance groups, which applies to different groups of services. For example, some special discounts, or monetary balance, can be given for wireless calls, but not for fixed line service.
ACCOUNT BALANCE IMPACT	Base	The account balance change details, because of a specific event. For example: ▪ Account payment ▪ Rated UDR event
ACCOUNT BALANCE MONTH DRVD	Derived	Daily aggregate of free minutes allowance (PPA) for ACCOUNT and PRODUCT OFFERING.
ACCOUNT BALANCE TYPE	Lookup	Type of account balance. For example: ▪ Broadband ▪ PTV ▪ Wireless free call allowance
ACCOUNT BILLING CYCLE HISTORY	Reference	Billing cycle status history for ACCOUNTs.
ACCOUNT BILLING FREQUENCY HISTORY	Reference	Billing frequency history for ACCOUNTs.
ACCOUNT BILLING OCCURRENCE	Reference	Specifies each billing occurrence for an ACCOUNT. A billing occurrence may be triggered by a predefined billing cycle or some other event such as account termination. In a single account billing occurrence there may be multiple invoices generated.
ACCOUNT BILLING PERIOD HISTORY	Reference	Billing period history for ACCOUNTs.
ACCOUNT BUSINESS INTERACTION ROLE	Reference	The business interaction role which can be assigned by a CUSTOMER ACCOUNT.
ACCOUNT COST	Base	Subtype of COST, which associates a specific incurred cost to an ACCOUNT (through an EMPLOYEE).
ACCOUNT CREDIT LIMIT	Base	Credit limit assigned to an account, subscription, or agreement.
ACCOUNT DEBT	Base	Information about the ACCOUNT and debt collection process, as soon as an ACCOUNT is tagged as being in debt until the day it is resolved (included).
ACCOUNT DEBT HISTORY	Base	History tracking of the evolution of the debt process per individual ACCOUNT.
ACCOUNT DEBT MONTH AGGR	Aggregate	The summarized monthly debt status for each CUSTOMER TYPE.
ACCOUNT DEBT MONTH DERIVED	Derived	Summery of payment and collection by internal collector.
ACCOUNT EVENT TYPE	Lookup	Lookup for account event types.
ACCOUNT FIRST ACTIVITY DERIVED	Derived	Collects first usage and payment per account. This entity should be filled once and updated maximal twice per account (one for payment, one per incoming and outgoing usage). It is then never touched.
ACCOUNT LAST ACTIVITY DERIVED	Derived	Collects last usage and payment per account. This entity should be filled at least every day per account until full account deactivation.
ACCOUNT MANAGEMENT HISTORY	Base	Subtype of PARTY ACCOUNT ASSIGNMENT. The account management history tracks the management relationship from employee to the accounts, including account creation, through sales channel, and accounts update or termination.
ACCOUNT PARTY PRODUCT OFFERING RELATIONSHIP	Reference	Assigns accounts and parties to PRODUCT OFFERING.
ACCOUNT PAYMENT	Base	Allocations of funds from a receipt made by a party to an account. The receipt of a single sum from a party as a credit against an outstanding balance for the provision and supply of products or services.
ACCOUNT PAYMENT DAY DRVD	Derived	Daily aggregation of payments made by all customers.
ACCOUNT PAYMENT METHOD	Reference	Contains preferred payment methods for the account.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ACCOUNT PAYMENT METHOD STATUS	Base	Status history of each account preferred payment method. For example: ■ Active ■ Inactive ■ Invalid
ACCOUNT PAYMENT METHOD STATUS HIST DRVD	Derived	Collects the changes on payment method status.
ACCOUNT PAYMENT METHOD STATUS REASON	Lookup	Lookup for specific status of the account payment method. For example: ■ Activated ■ Deactivated ■ Disabled
ACCOUNT PAYMENT METHOD STATUS TYPE	Lookup	Lookup for types of ACCOUNT PAYMENT METHOD STATUS. For example: ■ Active ■ Inactive ■ Payment Rejected
ACCOUNT PAYMENT MONTH AGGR	Aggregate	Monthly summary of payments made by all customers.
ACCOUNT PAYMENT PAYMENT PLAN ASSIGNMENT	Base	Association of an ACCOUNT PAYMENT to a specific PAYMENT PLAN (after agreement). This association is critical to control whether the PAYMENT PLAN is fulfilled on time or not.
ACCOUNT PAYMENT PLAN ASSIGNMENT	Reference	Association of a PAYMENT PLAN to an ACCOUNT.
ACCOUNT PREFERRED INVOICE DELIVERY	Reference	The preferred invoice delivery type history for ACCOUNT.
ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY	Base	Defines the history of how account uses the PRODUCT OFFERING.
ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT	Reference	History of subscriptions by an ACCOUNT.
ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT REASON	Lookup	Each account to subscription relationship may have a reason associated with it. For example: ■ Warrant account ■ Payment account
ACCOUNT PROFILE	Reference	Records more details about the ACCOUNT.
ACCOUNT REFUND REASON	Lookup	Lookup for the reasons why a refund may occur. For example: ■ Invoice Adjustment ■ Tax Refund
ACCOUNT ROLE TYPE	Lookup	The type of ACCOUNT ROLEs, for example, primary account, secondary account, and so on.
ACCOUNT SEGMENT	Reference	The segments identifying distinct groupings of accounts with similar characteristics. The account segments are typically generated from the data mining analysis.
ACCOUNT SEGMENT ASSIGNMENT HISTORY	Reference	Assign account segment to each account.
ACCOUNT SEGMENTATION MODEL	Reference	Used to cluster the account.
ACCOUNT STATISTIC MONTH AGGR	Aggregate	Monthly summary per ACCOUNT for subscriptions, ARPU, Lifespan, and so on.
ACCOUNT STATUS HISTORY	Base	The history of account status change, including activation, suspension, and so on.
ACCOUNT STATUS REASON	Lookup	Lookup for account status reasons, or possible reasons a given account status has been changed.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ACCOUNT STATUS TYPE	Lookup	Lookup for account status types.
ACCOUNT TAX EXEMPT ASSIGNMENT	Reference	Association of TAX EXEMPTs to accounts. There may be several tax exemptions for a given account.
ACCOUNT TYPE	Lookup	Lookup for account type. For example: ■ Prepaid ■ Postpaid
ACCOUNTING CYCLE	Lookup	Internal Billing cycle which is used to calculate the usage amount and update the account balance for accounting GL purpose.
ACCOUNTING ITEM CATEGORY	Lookup	Lookup for categories that can be associated with incurred costs. For example: ■ Operations ■ Staffing ■ Supplies
ACCRUAL EVENT	Base	Any events that lead to an increase in Loyalty Points to any membership account (loyalty). This entity focuses on the origin (type, organization or partner, and so on) of the increase of points (and the amount). The events that could feed Loyalty Program Event as earning points should all come from Billing System, whatever their origin (usage, customer order, payment and so on). Retail Transactions could also feed this entity.
ACTIVITY CATEGORY	Lookup	Helps to categorized activity events. Typically there are four categories: ■ REP ACTVTY: for Sales Representative Activities ■ Contact: for any type of contact with customer or prospect - and when defined, usually related with EVENT PARTY INTERACTION. ■ INTERN: for internal activities not directly related with customers or prospects (such as meetings, intra-calls, and so on). ■ ACW: or "After Call Work" for activities following a contact, while customer or prospect is not on the line or in the shop.
ACTIVITY RELATIONSHIP TYPE	Lookup	Type of relationship between (employee) activities. This entity is not physicalized.
ACTIVITY RESULT TYPE	Lookup	Lookup for available Result Types for EMPLOYEE activities. For example: 1000 - Successful 2000 - Failed 5000 - Pending
ACTIVITY TYPE	Lookup	Type of EMPLOYEE activities, used for grouping and reporting purpose.
ADDITIONAL TEXT	Reference	Additional text can save multiple lingual notes or comments for products, parties, and other information.
ADDRESS LOCATION	Reference	Address details for physical or mailing address.
ADDRESS LOCATION ADMIN AREA ASSIGNMENT	Reference	Association of an ADDRESS LOCATION to a given ADMINISTRATIVE AREA. Since there can be several levels of jurisdictions and administration, there can be several administrative areas associated with the same address location. Normally, in case of clear administrative hierarchy (for example, Local finance administration and country level finance administration), the lowest possible level should only be used.
ADDRESS LOCATION NAME	Reference	Tracks other names used by the same ADDRESS LOCATION.
ADDRESS PHONE	Reference	Phone Numbers given by individuals or organization as contact data (typically from Retail Shops). It should not be used to store the ACCESS METHOD. It is used from a loyalty retail perspective.
ADDRESS RELATED	Reference	Entity associates addresses with other addresses. Addresses can be associated in many ways. For example, one address is an alternate for another address for those locations with multiple addresses.
ADDRESS RELATED REASON	Lookup	Lookup for reasons addresses may be related.
ADDRESS RELATED TYPE	Lookup	Lookup for the type of relationship between two addresses.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ADDRESS STATUS	Base	Current status of an address location. For example: ▪ Active ▪ Current ▪ Changed ▪ Old address
ADDRESS STATUS HISTORY	Base	History of the status for any ADDRESS LOCATION. For example: Active, Obsolete
ADDRESS STATUS REASON	Lookup	Lookup for the reason for a change to the current ADDRESS STATUS.
ADDRESS TYPE	Lookup	Lookup for address types. For example: ▪ Home ▪ Office ▪ Warehouse ▪ Billing
ADDRESS VERIFICATION TYPE	Lookup	Type of verification for the address (automatic, manual, 3rd party, and so on).
ADHOC COLLECTION	Base	Represents the "on demand" or "adhoc" Statistics Collection, that are not part of the standard statistics collection flow or process. It is typically triggered by EMPLOYEE after a network fault, an alarm, or a service problem.
ADJUSTMENT TYPE	Lookup	Type of INVOICE ADJUSTMENT.
ADMINISTRATIVE AREA	Reference	Area defined by an administration; necessarily associated with a jurisdiction of any type. For example: MUNICIPALITY CENSUS DISTRICT ELECTORAL AREA COUNTY PARISH
ADVERTISING PERIOD	Reference	Defines an advertising period.
ADVERTISING QUARTER	Reference	Defines a quarter in an advertising calendar.
ADVERTISING WEEK	Reference	Defines a week in an advertising calendar.
ADVERTISING YEAR	Reference	Defines a year in an advertising calendar.
AF SERVICE	Reference	Defines how to forward network traffic by adding specific semantics that characterize the operation of the Assured Forwarding (AF) Service (RFC2597).
AGE BAND	Lookup	Lookup to bin the customer into different groups according age. For example: ▪ 0~20 years ▪ 20~30 year ▪ 40-50 years ▪ 50-60 years
AGE GROUP	Lookup	Group of ages for Individual only; should be filled with what Marketing requires.
AGE ON NET BAND	Lookup	Defines subscriber life cycle ranges. For example: ▪ 0-1 month ▪ 1-2 months
AGENT	Reference	Agent in the software modelling sense. This is not a sales representative.
AGREEMENT	Reference	Legal agreement between a Communications Service Provider and an account.
AGREEMENT ACCOUNT SUBSCRIPTION PRODUCT AGGR	Aggregate	An aggregated view for reporting and linking purposes that keeps track of current relationships between CUSTOMER, ACCOUNT, AGREEMENT and PRODUCT SUBSCRIPTION.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
AGREEMENT APPROVAL	Base	Approval for the AGREEMENT from the operator's authorized employee, if the agreement requires higher level approval or review.
AGREEMENT ASSIGNMENT	Reference	Defines relationship(s) between agreements.
AGREEMENT APPROVAL ASSIGNMENT	Base	Agreement Approval Assignment is only to be used when the chain of approvals is not linear. In case of multiple parallel Authorization Requests for Approval, this entity shall be used.
AGREEMENT ASSIGNMENT REASON	Lookup	Lookup for reasons of why two agreements are related. For example: The reason for one agreement to be replaced by another: ■ CNRT-END: The first agreement was naturally terminated ■ DLT-Delete: ■ CUST-CHNG: Voluntary change by customer ■ OP-INIT: Service Provider, operator, solicited the agreement change, normally to increase the ARPU value The reason for one agreement to depend on another: ■ Equipment dependency ■ Network dependency
AGREEMENT ASSIGNMENT TYPE	Lookup	Lookup for types of assignment between two agreements. For example: ■ RPLC: a new agreement replaces the original agreement ■ UPGRADE: a new agreement replace original one with upgraded product ■ DEPEND: a agreement depends on existence of another agreement
AGREEMENT CHANGE INITIATOR TYPE	Lookup	Lookup to classify the initiator of the agreement change.
AGREEMENT CHANGE REASON	Lookup	Reasons for a change in AGREEMENT. Typically, it could be CUSTOMER take-over, or simple information update (CUSTOMER or main product offering level) that triggers a change in agreement information or relationship.
AGREEMENT CHANGE TYPE	Lookup	Lookup of all the type of agreement changes. For example: ■ Contract Renew ■ Contract Terminate
AGREEMENT CHANGED DRVD	Derived	Derived information about customer's current or future agreement for analytical purposes. This entity captures only changed agreements, including REPLACE or TERMINATE.
AGREEMENT DOCUMENT	Reference	The document(s) provided by the customer when a agreement was signed. For example: ■ Photocopy image of customer ID ■ The agreement itself ■ Any other documents attached to the agreement
AGREEMENT DRVD	Derived	Derived information about customer's current or future agreement for analytical purposes.
AGREEMENT INTENT	Reference	Goal of any AGREEMENT (intent). It is defined once so that all similar agreements can refer to the same Statement of intent.
AGREEMENT ITEM	Reference	Detail items for the AGREEMENT. Each item may use a different PRODUCT SPECIFICATION.
AGREEMENT PRODUCT SPEC ASSIGNMENT	Reference	This entity is superceded by AGREEMENT ITEM. It is deprecated and should only be used by legacy systems.
AGREEMENT REVENUE DAY DRVD	Derived	Summary of postpaid revenue per AGREEMENT for any given day. All fact fields are sum-able. It is an extension of the REVENUE DAY DRVD from a different point of view.
AGREEMENT SLA RELATIONSHIP	Reference	Association of SERVICE LEVEL AGREEMENT with the main AGREEMENT signed by customers. Normally, only customer specific SERVICE LEVEL AGREEMENT are mentioned, but one could generalize also to add a relationship for and agreement with "tacit" SERVICE LEVEL AGREEMENT.
AGREEMENT STATUS	Base	The status history of the AGREEMENT.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
AGREEMENT STATUS REASON	Lookup	Lookup for description of the agreement status change. For example: ▪ Customer originated product change ▪ Customer originated churn ▪ Provider originated: Bad payment (leading to suspension) ▪ Customer originated: Debt paid (leading to reactivation) ▪ Customer originated: Banqueroute
AGREEMENT STATUS TYPE	Lookup	Lookup for all possible types of AGREEMENT STATUS. For example: ▪ Newly created for new account ▪ Renewed automatically ▪ Naturally expired or terminated
AGREEMENT TERM	Base	The value of terms attached to the AGREEMENT. For example: ▪ Monetary amount ▪ Period ▪ Premium ▪ Initial points The value can vary at different time period of agreement. For example, the monthly fee might be 100 for the first six months and 80 for the last six months. A penalty calculation can also be based on the months left in agreement.
AGREEMENT TERM TYPE	Lookup	Lookup for all possible terms which may be attached to a AGREEMENT. For example: ▪ Monetary amount ▪ Period ▪ Premium ▪ Initial points ▪ Cancellation policy ▪ Subsidy
AGREEMENT TYPE	Lookup	Lookup for agreement types.
AGGREGATION INTERFACE	Reference	Defines a DEVICE INTERFACE that functions as an Aggregation Interface; that is, an interface on the aggregation portion of the network. The objective of this role is to enable the definition of POLICYs such that all Aggregation Interfaces in a particular Domain can receive the same common configuration commands.
ALLOWANCE SBRP PRICE ALTERNATION	Reference	An allowance, a number of something allowed before charging begins, for a PRODUCT SUBSCRIPTION.
AMERICAN PROPERTY ADDRESS	Reference	The Property Address format used in USA.
ANZSIC CLASSIFICATION	Reference	The SIC code used in Australia and New Zealand.
APPOINTMENT	Base	The appointment between two parties to define a future time for conducting businesses. For example: ▪ A customer visit appointment, between a sales representative and a customer. ▪ A technical support appointment between a customer and an engineer.
APPOINTMENT CALENDAR	Base	Appointments assigning times for vendor or provider to deliver or provide a service.
APPOINTMENT TYPE	Lookup	Lookup for appointment types. For example: ▪ Recurring ▪ Scheduled
ARPU BAND	Lookup	Average Revenue per Unit Band definitions. For example: ▪ $0-100 ▪ $101-200
ARPU BASE CUSTOMER TYPE AGGR	Aggregate	The monthly summary of revenue values for ARPU calculation on CUSTOMER TYPE level.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
ASSET	Reference	Any tangible or intangible economic resource, owned by the operator, which may be of interest to the financial status of the operator. For example, an asset may be a network element, for example routers, switches, or a business asset like land, building, or patent, and so on.
ASSET APPRAISAL HISTORY	Base	The valuation history of the ASSET.
ASSET CONDITION HISTORY	Base	The condition history of an ASSET, as inspected by an internal employee or a contractor. This is important for vehicles or buildings.
ASSET DEPRECIATION HISTORY	Base	The financial depreciation history of a given ASSET.
ASSET PARTY ASSOCIATION	Reference	The relationship between a PARTY and an ASSET.
ASSET SITE ASSIGNMENT	Reference	The history of locations of each ASSET. An ASSET may be moved among different SITEs in its life cycle.
ASSET TYPE	Lookup	The Type of ASSET. For example: ■ Land ■ Building ■ Computer
ATM INTERFACE	Reference	Asynchronous Transfer Mode (ATM), is a network technology based on transferring data in cells of a fixed size. The cell used with ATM is relatively small compared to that used with older technologies. In principle, the small, constant cell size allows ATM equipment to transmit video, audio, and computer data over the same network, and assure that no single type of data can dominate network traffic. ATM creates a fixed route between two points whenever data transfer begins. This differs from TCP/IP, in which messages are divided into packets and each packet can take a different route from source to destination. This difference makes it easier to track and bill data usage across an ATM network, but it makes it less adaptable to sudden surges in network traffic.
AUTHORIZATION METHOD	Lookup	Method used to authorize a payment (PIN, Signature, TAN, TAN SMS, and so on) or an official document like an agreement (Certified Email or PDF, signature, and so on).
AUTONOMOUS SYSTEM	Reference	An Autonomous System (AS) provides a structured view of routing by segregating the system that is using routing. For example: ■ The Internet ■ A corporate intranet ■ Company extranet This segregates the system into a set of separately administered domains and each has its own independent routing policies. This is defined in RFC1771.
AUXILIARY COMPONENT	Reference	This entity represents managed entities, such as power supplies, fans, and cables, which are required for the proper operation of the Device but have a primary function that is different than the primary end-user function(s) of the Device. The difference between Auxiliary Components and other subclasses of EQUIPMENT are whether the physical object performs a function intrinsic to the main function of the Device. For example, consider a ROUTER. The routers main function is to route and forward packets. A Power Supply is an Auxiliary Component, because even though it is needed for the proper operation of the ROUTER, it does not directly help in routing and forwarding packets. A Line Card, that provides routing functionality, is a subclass of EQUIPMENT because its purpose is to route and forward packets. Similar examples exist for different types of equipment, where their criteria may be different. For example, instead of whether it routes or forwards packets, the criterion "does it carry signal" may be useful to appropriately classify components.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
AWARD LEVEL	Lookup	The level of customer's loyalty, based on the LOYALTY PROGRAM and ability to contribute to the revenue of the carrier. For example: ▪ Platinum ▪ Gold ▪ Silver ▪ Bronze
BANK	Reference	Bank information that may be used in transactions.
BANK DIRECT DEBIT CHANNEL	Reference	Subtype of the PAYMENT CHANNEL, which tracks various bank channels where customers can pay by direct debt method.
BARING REASON	Lookup	Lookup defining reasons a customer may be banned from using a service.
BASE DAY	Reference	The abstracted information about a day, which serves as a base for DAY.
BASE STATION CONTROLLER	Reference	Subtype of RESOURCE, which lists the Base Station Controller (BSC) of the network. The Base Station Controller provides, classically, the intelligence behind the BASE TRANSCEIVER STATION (BTS)s. Typically a BSC has tens or hundreds of BTSs under its control. The BSC handles allocation of radio channels, receives measurements from the mobile phones, and controls handovers from BTS to BTS.
BASE TRANSCEIVER STATION	Reference	Base Transceiver Station (BTS) is the equipment which facilitates the wireless communication between User Equipment (UE) and the network.
BASEBAND UNIT	Reference	The BaseBand Unit (BBU) is part of 3G Node B base station system, which is in charge of base station control.
BER FER ERROR RATIO DAY DRVD	Derived	Daily BER (Bit Error Rate) and FER (Frame Error Rate) statistics about the network elements.
BER FER ERROR RATIO MONTH AGGR	Aggregate	Monthly BER (Bit Error Rate) and FER (Frame Error Rate) statistics about the network elements. Derived from BER FER ERROR RATIO DAY DRVD.
BER FER TYPE	Lookup	Lookup to indicate the statistics value for BER (Bit Error Rate) or FER (Frame Error Rate).
BILLING CYCLE	Lookup	Documents each billing run/cycle. Typically the billing cycle is per month. Sometimes a customer may be billed at a different date inside the billing cycle. For example: ▪ The first day of month ▪ 10th day of month
BILLING FREQUENCY	Lookup	The billing frequency specifies the number of billing periods that comprise the billing cycle.
BILLING OCCURRENCE TYPE	Lookup	Type of billing occurrence which could be classified by the trigger type. For example: ▪ Triggered by customer inquiry. ▪ Triggered by automatic billing cycle.
BILLING PERIOD	Lookup	The billing period specifies the unit to be used to calculate the billing cycle (such as days or months).
BILLING STATUS CATEGORY	Lookup	Lookup for category of billing status. For example: ▪ Successfully Billed ▪ Failure to Bill
BILLING STATUS REASON	Lookup	Lookup for reasons why the UDR EVENT is at certain billing status. For example: ▪ Wrong format ▪ Missing account information
BILLING STATUS TYPE	Lookup	Lookup for the status type of billing result, including the reasons. For example: ▪ Incorrect_data_failed ▪ Incorrect_user_not_found ▪ Successful
BLACK LIST HISTORY	Base	History of all black-listed customers.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
BRAND	Lookup	The brands associated with hardware (usually this applies for handsets, but also for ITEM SPECIFICATIONs).
BRIDGING PROTOCOL	Reference	Bridging Protocols operate at the data link layer of the OSI model, and are used to define communications over different types of homogeneous and heterogeneous local area networks.
BROADBAND RATING PLAN	Reference	Subtype of PRODUCT OFFERING PRICE applied to BROADBAND SERVICE.
BROADBAND SERVICE	Reference	Broadband service is subtype of SERVICE, to track the broadband services used by the user.
BROADBAND USAGE EVENT	Base	The broadband network usage event, normally implemented as a period while customer is connected to the network. This is charged based on time usage. Some internet connection product might charge by data volume.
BROWSER TYPE	Lookup	Lookup for brand of client browser. For example: ▪ Internet Explorer ▪ Firefox
BROWSER VERSION	Reference	Version of customer browser, such as Internet Explorer 6.0, Firefox 3.6, and so on.
BUSINESS ASSET	Reference	Any business asset that may be of financial interest to the operator. For example: ▪ Land ▪ Buildings ▪ Equipment, such as office computers Note: the equipment which is part of the network is in the entity: RESOURCE
BUSINESS HALF MONTH	Reference	Defines month-in-half in a business calendar.
BUSINESS HALF YEAR	Reference	Defines half year in a business calendar.
BUSINESS INTERACTION	Reference	Describes an arrangement, agreement, communication, or joint activity between one or more PARTY ROLEs, RESOURCE ROLEs, or CUSTOMER ACCOUNTs. A Business Interaction may consist of one or more BUSINESS INTERACTION ITEMs. A BUSINESS INTERACTION ITEM may refer to a Product, Service, RESOURCE, or one of their specifications. A Business Interaction is further defined by one or more Places. One Business Interaction may reference another Business Interaction and one BUSINESS INTERACTION ITEM may reference another BUSINESS INTERACTION ITEM on the same or different Business Interaction. There are five types of Business Interactions: ▪ Requests ▪ Responses ▪ Notifications ▪ Agreements ▪ Instructions
BUSINESS INTERACTION ASSIGNMENT	Reference	Defines the relationship between two BUSINESS INTERACTIONs.
BUSINESS INTERACTION ASSIGNMENT TYPE	Lookup	Interaction type such as subordinate business interaction.
BUSINESS INTERACTION CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a BUSINESS INTERACTION.
BUSINESS INTERACTION CHARACTERISTIC TYPE	Lookup	Type of BUSINESS INTERACTION CHARACTERISTIC.
BUSINESS INTERACTION CHARACTERISTIC VALUE	Reference	A value of a BUSINESS INTERACTION CHARACTERISTIC.
BUSINESS INTERACTION HISTORY	Base	The temporary status of an interaction, non current, if it was not COMPLETED when it was first loaded.
BUSINESS INTERACTION ITEM	Base	The purpose for the Business Interaction expressed in terms of a Product Type, PRODUCT OFFERING, Service Type, or RESOURCE SPECIFICATION or may refer to a Product, Service, or RESOURCE. The detail items included in the BUSINESS INTERACTION.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
BUSINESS INTERACTION ITEM PRICE	Base	This is the actual price charged to the BUSINESS INTERACTION ITEM, despite the original list and discount price from product setting. An amount associated with a BUSINESS INTERACTION ITEM that is valued by the associated product offering Price
BUSINESS INTERACTION ITEM SPECIFICATION	Reference	Specification of how a given BUSINESS INTERACTION ITEM is supposed to be filled (data, information, and so on). Normally ignored because the content expected is obvious, this entity is present for completeness only.
BUSINESS INTERACTION LOCATION ASSIGNMENT	Reference	The BUSINESS INTERACTION ROLE which can be assigned to an address. For example: ▪ Billing address ▪ Shipment address
BUSINESS INTERACTION PAYMENT ASSIGNMENT	Base	The association between a payment and BUSINESS INTERACTION. For example, a payment for a agreement or a customer order.
BUSINESS INTERACTION ROLE	Reference	The roles which can be played by PARTY or other business interaction elements like Resource, and so on.
BUSINESS INTERACTION SPECIFICATION	Reference	The invariant characteristics (attributes in the business view, and methods, constraints, relationships, and behavior in the system view) and behavior of a BUSINESS INTERACTION. This is done by optionally defining a set of BUSINESS INTERACTION SPECIFICATION items, each of which aggregates one or more other types of Specifications. This helps to ensure that different BUSINESS INTERACTION have the same basic characteristics and behavior by deriving them from the same BUSINESS INTERACTION SPECIFICATION.
BUSINESS INTERACTION STATUS REASON	Lookup	The reason to explain why a BUSINESS INTERACTION has had a change in status.
BUSINESS INTERACTION VERSION	Reference	Represents the ability to distinguish between different instances of RESOURCE SPECIFICATIONs. It represents a particular form or variety of a RESOURCE SPECIFICATION that is different from others or from the original. The form represents differences in attributes, methods, relationships, or constraints that characterize this particular RESOURCE SPECIFICATION, but which are not enough to warrant creating a new RESOURCE SPECIFICATION.
BUSINESS LEGAL STATUS	Lookup	The legal status of the company. For example, a Public Company, Private, and so on.
BUSINESS MONTH	Reference	Defines month in a business calendar.
BUSINESS QUARTER	Reference	Defines quarter in a business calendar.
BUSINESS UNIT JOB ROLE	Reference	Assigns job roles to a business unit within the organization.
BUSINESS UNIT SHIFT	Reference	Work shift associated with the Business Unit, mapped to the Employee job roles for the allocation for these shifts.
BUSINESS WEEK	Reference	Defines week in a business calendar.
BUSINESS YEAR	Reference	Defines year in a business calendar.
CABLE	Reference	A container of conductors or fibres. At least two connectors are attached to a cable.
CABLE MODEM	Reference	Subtype of EQUIPMENT INSTANCE, which collects all cable modem instances installed at customer's site connecting to the network of the Communications Service Provider.
CALENDAR HALF MONTH	Reference	Defines month-in-half in a Gregorian or Normal Calendar.
CALENDAR HALF YEAR	Reference	Defines half year in a Gregorian or Normal Calendar.
CALENDAR MONTH	Reference	Defines month in a Gregorian or Normal Calendar.
CALENDAR QUARTER	Reference	Defines quarter in a Gregorian or Normal Calendar.
CALENDAR WEEK	Reference	Defines weeks in a Gregorian or Normal Calendar.
CALENDAR YEAR	Reference	Defines years in a Gregorian or Normal Calendar.
CALL CATEGORY	Lookup	Lookup for call categories. For example: Data, Fax, or Voice.
CALL CENTER	Reference	Defines call centers for a carrier or provider.
CALL CENTER AGENT	Reference	Agents of a call center.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CALL CENTER AGENT TYPE	Lookup	Lookup for call center agent types. For example: Employee or IVR.
CALL CENTER CALL MONTH AGGR	Aggregate	Monthly summary of customer call statistics for the call center.
CALL CENTER CASE MONTH AGGR	Aggregate	Monthly summary of statistics for all the cases initiated or resolved by the call center.
CALL CENTER CASE SUB TYPE	Lookup	Lookup to further characterizes the type of cases from the call center. The case subtype helps to split a given case type into various subtypes. For example, for the case type, "Srv: Service Request", the subtype could be classified as "Package Upgrade", "Package Downgrade", "Simple Contract Renewal", or "Onsite Support".
CALL CENTER CASE TITLE	Lookup	Further classifies the CALL CENTER CASE SUB TYPE. For example, for call center case type "Service Request", and call center case subtype "Technical Support", the call center case title could be: ■ Handset Technical Support ■ Product Usage Technical Support ■ Network Fault Technical Support
CALL CENTER CASE TYPE	Lookup	Lookup for type of call center cases. For example: ■ Cmpl: Complaint ■ Inqry: Inquiry ■ Srv: Service Request
CALL CENTER SERVICE CAPABILITY	Reference	Assigns to the CALL CENTER, the languages, products, or geographical areas which the call center can serve.
CALL DIRECTION	Lookup	To indicate incoming call or outgoing call.
CALL FORWARD	Reference	A type of phone service. The calling party can be on hold if receiving party is in a call.
CALL OTHER TYPE	Lookup	This is to record any other characteristics of the call, such as, 3-party call, or any user defined special type of call.
CALL RECYCLED REASON	Lookup	Lookup for reasons why the voice carrying channel is being recycled during the call.
CALL ROUTING TYPE	Lookup	Lookup to define how the call was routed. For example: ■ Calling from external carrier ■ From Wireless to Land Phone
CALL SERVICE TYPE	Lookup	Lookup for service types that could be used in a call. For example: ■ Toll-Free number such as 800/400 ■ Emergency Call such as 911, 112, 110
CALL SOURCE DESTINATION	Reference	Entity represents all the possible zones associated with a combination of any sources and destinations. Those call sources or destinations classify the calls into different groups, such as local call, long distance domestic call, or internal call. Note: it is not the purpose of this entity to reproduce the A-B number mapping (this is a billing operation). This entity only represents the result of such a mapping.
CALL SUCCESS FAILURE TYPE	Lookup	Lookup to classify calls into successful calls or unsuccessful due to various reasons or causes. Call success failure, along with the call direction helps in facilitating the required analysis for roaming calls.
CALL SURCHARGE	Lookup	Any extra charge on the call in addition to the normal rating.
CALL TERMINATION REASON	Lookup	Lookup for the reasons a call may be terminated. For example: ■ Dropped ■ Successful End

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CALL TYPE	Lookup	Lookup to further classify call category into call types. For example: ▪ Voice Voice ▪ SMS and MMS ▪ Data and FAX ▪ Information services ▪ GPRS services for Data and Fax
CALLER ID	Reference	Subtype of PRODUCT SPECIFICATION, with specific information about CALLER ID service.
CAMPAIGN	Reference	Campaigns are the entire communication strategy for a specific marketing communications program. The marketing communications program is frequently in support of promotional events and individual promotions but can be standalone. A campaign is always associated with a MEDIA OBJECT, such as a television campaign.
CAMPAIGN CHANNEL	Reference	Channel by which a CAMPAIGN is exposed to a customer. For example: News group or media company which issues newspaper, television affiliate, and so on. A piece of newspaper of a block/slot on the paper is a publication/media object. The campaign channel can be categorized by CAMPAIGN CHANNEL TYPE.
CAMPAIGN CHANNEL ASSIGNMENT	Reference	The assignment to define which CAMPAIGN is lunched at which CAMPAIGN CHANNEL.
CAMPAIGN CHANNEL TYPE	Lookup	Lookup for campaign channel type. For example: newspaper, Television, Magazine.
CAMPAIGN CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a CAMPAIGN. The characteristic can take on a discrete value, such as the number of press releases, can take on a range of values, for example the number of prospects reached is 50,000 - 100,000, or can be derived from a formula, for example, the number of brokerage house pickups = the sum of all brokerage house instance characteristics.
CAMPAIGN COST	Base	Subtype of COST which can apply to a CAMPAIGN.
CAMPAIGN CHARACTERISTIC VALUE	Reference	A number or text that can be assigned to a CAMPAIGN CHARACTERISTIC.
CAMPAIGN DOCUMENT	Reference	The customer documents provided during campaign activities.
CAMPAIGN HISTORY DAY DRVD	Derived	Daily aggregate of campaign results by PROMOTION RESULT TYPE.
CAMPAIGN MANAGEMENT HISTORY	Reference	The history of campaign party role about management of a CAMPAIGN. The party here can be not only the sales or marketing employee at TELCO operator, it can also be campaign partner.
CAMPAIGN MEDIA	Reference	Relationship between a CAMPAIGN and the MEDIA OBJECT chosen to run this campaign (Radio, TV, newspaper, posters, Internet Adds, and so on).
CAMPAIGN MEDIA SELLING ITEM	Reference	Item, resource, associated with the CAMPAIGN and the MEDIA OBJECT used. It could go from specific accessories that one could get with a specific promotion.
CAMPAIGN MESSAGE	Reference	Details regarding message broadcast or sent during a CAMPAIGN.
CAMPAIGN MESSAGE CREATIVE	Base	Information about the creative content of the message.
CAMPAIGN MESSAGE DEPICTION	Reference	Details about how the execution message is depicted for a CAMPAIGN.
CAMPAIGN PURPOSE TYPE	Lookup	Lookup for types of campaign purposes. For example: ▪ Acquire new customers ▪ Consolidate existing customers ▪ Retention existing customers
CAMPAIGN RELATIONSHIP	Reference	Defines the relationship between two CAMPAIGNs. For example: ▪ Replace/upgrade ▪ Enhance
CAMPAIGN STATUS	Lookup	Status of CAMPAIGN.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CAMPAIGN TERM VALUE	Reference	The term value for a given campaign.
CAMPAIGN TYPE	Lookup	Lookup for type of campaign. For example: ▪ A targeted promotion (to specific individuals, account or group of accounts) ▪ A mass market promotion (to a massive audience usually through radio, Television and newspaper)
CANNIBALIZATION DETAIL DAY DRVD	Derived	The calculated detail information related to the tariff/package change of customers. For prepaid customers, usually it is impossible to track customer movement between products due to lack of customer identification. For some customers, they may change at the next "beginning of the month".
CAPACITY	Reference	This is an abstract base entity that is the parent for both the PHYSICAL CAPACITY and the LOGICAL CAPACITY. These entities define the minimum and maximum requirements, limits, or other variable features of another entity.
CARD	Reference	Represents a type of physical container that can be plugged into a SLOT. A card may represent a primary function, for example, a networking card, or an auxiliary function, for example, a memory card, that supports another card. All objects of this type are capable of carrying electrical and optical signals. A card also provides a mounting point for other types of Managed Physical Resources, such as Chips or Cards.
CARD HOLDER VERIFICATION TYPE	Lookup	Verification Method to check a Card Holder self (personal ID, Birthday, extra PIN...), typically for Credit Card but it could be generalized.
CARD RELATIONSHIP	Reference	This association entity represents the semantics of the Card On Card aggregation. The Card Relationship defines an attribute that describes how the CARD is mounted on or plugged into another CARD.
CARD TYPE	Lookup	Lookup for codes denoting which kind of card was accepted. For example: ▪ Amex ▪ Diners ▪ Disc ▪ JCB ▪ MC ▪ Visa
CELL	Reference	The cell in a wireless network such as GSM, which is an area serviced by the BASE TRANSCEIVER STATION (BTS).
CELL OUTAGE REASON	Lookup	Lookup for reasons a cell outage could occur. For example: ▪ Power failure ▪ Natural disaster ▪ Theft
CELL SECTOR	Reference	Most cells are split into sectors or individual areas to make them more efficient and to let them to carry more calls. The cell site equipment provides each sector with its own set of channels.
CELL SITE	Reference	This is where the base station radio equipment and their antennas are located. A cell site gives radio coverage to a cell.
CELL SITE COST	Base	Subtype of COST which could apply to a CELL SITE. For example: ▪ Expenses for the cell site building ▪ Rent ▪ Maintenance
CELL SITE TYPE	Lookup	Lookup for type of CELL SITE. For example: the cell site type can be classified by GSM/CDMA/PHS/broadband/Pay TV.
CELL STATISTIC DAY DRVD	Derived	The network parameters and run time statistics captured at the cell level.
CELL STATISTIC MONTH AGGR	Aggregate	The network parameters and run time statistics for all CELL SITEs aggregated at the month and certain geography level.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CELL TYPE	Lookup	Lookup for all possible cell types. For example, Macro, Micro, and Pico: ■ Macro cells are large geographical area where subscriber base is less dense. ■ Micro cells are small cells in side the macro cells to cover high subscriber density and uneven distribution. ■ Pico cells are used in large buildings, where signals from ground towers are poor.
CERTIFICATE TYPE	Lookup	Type of Certificate (Medical, Tax Authority, Government, and so on).
CFS SPEC VERSION DETAIL	Reference	Defines the relationship of the CFS Type aggregation. Specifically, it enables an application to define which set of versions of this CUSTOMER FACING SERVICE Type are appropriate for a given task.
CHANGE PROPOSED BY TYPE	Lookup	Lookup for who proposed the changes for a customer tariff change. For example: ■ By customer ■ By operator
CHANNEL	Reference	Identifies all the channels through which customers interact with the telco provider for sales or services purposes.
CHANNEL COST	Base	Subtype of COST, which collects all costs specifically related to a given sales channel.
CHANNEL TYPE	Lookup	Lookup for types of channels as defined by their functions. For example: ■ Sales channel ■ Payment channel ■ Debt collection channel ■ Loyalty program channel (where to join/change/redeem loyalty program)
CHASSIS	Reference	A Chassis is a type of Secure Holder that encloses other Managed Physical Entities and provides a definable functionality in its own right, such as a desktop or a network device. For example, a router or a switch.
CHASSIS POSITION	Reference	Represents the semantics of the Chassis In Rack aggregation. Defines two attributes: Position and Location, to define where the CHASSIS is located in the RACK.
CHURN SVM FACTOR	Derived	Mining target entity to store churn factors retrieved from SVM mining model.
CHURN SVM ROC	Derived	Mining target entity to store churn ROC details calculated using SVM mining model.
CIRCUIT CATEGORY	Lookup	Lookup for categories to classify the type of circuit. For example: ■ Analogue Voice ■ Digital Data Services (DDS) ■ ATM
CIRCUIT COMPONENT	Reference	Describes each component of each circuit. Typically a circuit will include several components. For example, a Digital Data Services circuit linking two customer sites may include three components: 1. From the customer site to the exchange/switch 2. From the switch to another switch 3. From the second switch to the second customer site There are two scenarios: ■ The circuit component links two switches. ■ The circuit component links a switch with a customer site For the first scenario, where two switches are linked, the switch_id and secondary_switch_id attributes will identify the two switches. The site_id attribute will be null. If the circuit component links a switch with a customer site, then the switch_id attribute will identify the switch and the site_id attribute will identify the customer site. The secondary_switch_id attribute will be null.
CIRCUIT RENTAL	Base	Business activities of renting some circuits to other operators, in return for a monthly, or fixed, revenue.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CIRCUIT RENTAL EVENT TYPE	Lookup	Lookup for types of rental events. For example: ■ Rental Initial ■ Monthly Charge ■ Maintenance Charge ■ Termination
CIRCUIT TRAFFIC	Base	The traffic volume statistics over certain periods, where periods are implementation dependent but generally hourly, for each CIRCUIT COMPONENT.
CIRCUIT TYPE	Lookup	Lookup for type of detailed circuit types. For example: For interconnect: ■ T1 or E1, carry 1.5mbps ■ T2 6.312 Mbit/s ■ T3 44Mbit/s For customer connection ADSL: ■ ADSL 1: Normally 1Mbit/s ■ ADSL 2x
CLASS BASE WEIGHTED FAIR QUEUE SERVICE	Reference	Specifies the algorithm that schedules packets in queues and guarantees a certain transmission rate. If a queue is not in use, the bandwidth is made available to other queues.
CLASSIFIER SERVICE	Reference	Describes the internal component of the forwarding path, used to recognize and distinguish among different packet streams or flows.
CLIENT	Reference	Client (part of the software application). This is not the customer.
CLIENT HOST	Reference	Host on which the CLIENT runs (from a software application perspective). It is a Resource identification expected.
CLIENT VERSION	Reference	Version of the CLIENT (part of a software application that the end-user is running).
COLLECTION	Reference	This entity represents collections of Managed Entity objects. A Collection enables common attributes, methods, relationships, and other semantics to be applied to different types of Collections of Managed Entity objects. These can then be refined in the subclasses of Collection.
COLLECTION AGENCY	Reference	Subtype of a PARTY, who collects the customer debt on behalf of the operator under a financial agreement. For example: ■ Debt collection ■ Roaming settlement collection
COLLECTION TYPE	Lookup	Type of Statistic Collection (alerts, alarms, network KPIs, and so on).
COMMISSION DRVD	Derived	Statistics of all commissions granted to the sales agents because of the sales of products and services in the given period.
COMMISSION MONTH AGGR	Aggregate	Monthly aggregation of all commissions granted to the sales agents because of the sales of products and services in the given period.
COMMISSION TYPE	Lookup	Lookup for commission types that may be paid to sales representatives. For example: ■ FLAT: flat rate ■ PERCENTAGE: percent of transaction amount
COMMUNICATION SERVICE	Reference	The service type of product, including fixed line phone call, wireless phone call, and so on.
COMP INTEL CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a COMPETITOR INTELLIGENCE. The characteristic can take on a discrete value, such as number of press releases, can take on a range of values, for example, number customers within a MARKET SEGMENT (50,000 - 100,000), or can be derived from a formula, for example, number of products offered in a MARKET SEGMENT = the number of the COMPETITOR's Products associated to the MARKET SEGMENT.
COMP INTEL CHARACTERISTIC VALUE	Reference	A number or text that can be assigned to a COMP INTEL CHARACTERISTIC.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
COMP INTEL MARKET SEGMENT	Reference	A MARKET SEGMENT in which a COMPETITOR makes Product available.
COMP PROD CRRL CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a COMPETITOR PRODUCT CORRELATION. The characteristic can be take on a discrete value, such as geographic disbursement (central, national, cascading). The characteristic can take on a range of values, (for example, Competitor Product Offering revenue of $500,000 - $1,000,000), or can be derived from a formula (for example, number of MARKET SEGMENTs in correlation = number of MARKET SEGMENTs related to this correlation).
COMP PROD CRRL CHARACTERISTIC ASSIGNMENT	Reference	Assign the COMP PROD CRRL CHARACTERISTIC to the related COMPETITOR INTELLIGENCE characteristic.
COMP PROD CRRL CHARACTERISTIC RELATIONSHIP	Reference	Defines the relationship between two COMP PROD CRRL CHARACTERISTICs.
COMP PROD CRRL CHARACTERISTIC VALUE	Reference	A number or text that can be assigned to a COMP PROD CRRL CHARACTERISTIC.
COMPENSATORY REASON	Lookup	Possible REASONs for being compensated (Standard Sales program, accelerator, or Hardware Defect, and so on).
COMPETITIVE TIER	Reference	A classification of a COMPETITOR, such as by size, product lines offered, and so on.
COMPETITOR	Reference	A PARTY that offers PRODUCT SPECIFICATION similar to the enterprise's PRODUCT SPECIFICATION in a MARKET SEGMENT.
COMPETITOR INTELLIGENCE	Reference	Facts gathered about a COMPETITOR's plans and activities. These facts perform COMPETITOR SWOT analysis to better understand a COMPETITOR.
COMPETITOR INTELLIGENCE PARTY ROLE	Reference	The PARTY who developed the COMPETITOR INTELLIGENCE.
COMPETITOR MARKET SEGMENT ASSIGNMENT	Reference	A MARKET SEGMENT served by a COMPETITOR.
COMPETITOR MARKET SEGMENT SWOT	Reference	Specifies a Strength, Weakness, Opportunity, or Threat in a MARKET SEGMENT served by a COMPETITOR.
COMPETITOR PRODUCT CORRELATION	Reference	A comparison or relationship between an enterprise-s PRODUCT SPECIFICATION with a COMPETITORs' Product. Information about the correlation may include MARKET SEGMENTs, Product Offering life cycle stage, Jurisdiction, or definable COMP PROD CRRL CHARACTERISTICs.
COMPETITOR SWOT	Reference	General (non-MARKET SEGMENT specific) Strength, Weakness, Opportunity, or Threat when compared to a COMPETITOR.
COMPETITOR TIER ASSIGNMENT	Reference	A classification of a COMPETITOR, such as by size, product lines offered, and so forth.
COMPLEX ADDRESS	Reference	Complex Address describes the internal address for a complex (for GEOGRAPHY COMPLEX). For example, the internal road, building number, and so on.
COMPOSITE COMP PROD CRRL CHARACTERISTIC	Reference	A type of COMP INTEL CHARACTERISTIC that is formed by aggregating other COMP INTEL CHARACTERISTIC, which may be Composite or Atomic COMP INTEL CHARACTERISTIC.
COMPOSITE PROD OFFER PRICE COMPONENT ASSIGNMENT	Reference	Association of price component to Composite Product Offering. It allows building complex pricing.
COMPOSITE PRODUCT SPECIFICATION	Reference	Groups of PRODUCT SPECIFICATIONs bundled to serve as basis of a PRODUCT OFFERING. The composite product specification is not customer facing and a customer should subscribe to a composite product specification through the PRODUCT OFFERING. For example: ▪ Tariff Liberty 60, Wireless phone, 3 Friends & Family Network Intern Numbers ▪ DSL 32Mbit/s + VoIP Phone + TV Entertainment + Pay TV Soccer Championship

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
COMPOSITE PRODUCT SPECIFICATION ASSIGNMENT	Reference	Assigns PRODUCT SPECIFICATION(s) to a COMPOSITE PRODUCT SPECIFICATION.
COMPOSITE PRODUCT SPECIFICATION CHARGE TYPE	Lookup	Lookup for type codes and descriptions for COMPOSITE PRODUCT SPECIFICATION charge on a PRODUCT SPECIFICATION. For example: ■ One time charge ■ Usage Duration charge ■ Usage per Call charge ■ Usage amount charge (Data transfer) ■ Monthly Cycle Forward Fee ■ Monthly Cycle Arrear Fee ■ Free Unit Charge ■ Free Charge
COMPOSITE PRODUCT SPECIFICATION TYPE	Lookup	Type of COMPOSITE PRODUCT SPECIFICATION. It groups COMPOSITE PRODUCT SPECIFICATIONs that share common characteristics.
COMPOSITE PRODUCT SUBSCRIPTION PRICE	Reference	A PRODUCT PRICE COMPONENT (associated with PRODUCT SUBSCRIPTION) that is made up of parts.
COMPOSITE SERVICE	Reference	A group of services together forming a new service.
COMPOSITE SERVICE INCLUSION	Reference	Defines the relationship between COMPOSITE SERVICE and atomic service. Composite service inclusion defines how the COMPOSITE SERVICE is formed.
COMPOSITE SERVICE TYPE INCLUSION	Reference	Tracks the relationship of which atomic service type each composite service type includes.
COMPOUND CONDITIONING ELEMENT	Reference	Abstract entity that defines "compound" traffic conditioning elements.
COMPOUND RESOURCE	Reference	This is the abstract base entity for all composite entities that are inherently manageable and form a PRODUCT SPECIFICATION. The key difference between network element and COMPOUND RESOURCE is that network element describes either a Physical or a Logical entity. In contrast, COMPOUND RESOURCE describes managed entities that are collections of other managed entities. A key point is that each managed entity that is part of a COMPOUND RESOURCE can be individually managed as either a PHYSICAL RESOURCE or a LOGICAL RESOURCE.
COMPOUND RESOURCE COLLECTION	Reference	An entity that is individually manageable. A Compound Element Collection is an aggregate entity consisting of RESOURCE and optionally Compound Element Collection entities. As such, a Compound Element Collection represents a set of PHYSICAL RESOURCEs and LOGICAL RESOURCEs that collectively represent a managed entity. For example, a Network is a subclass of Compound Element Collection. A Network can be made up of other Networks and SubNetworks. Each Network or SubNetwork can be made up of physical and logical components, gathered and represented by an RESOURCE Collection. Each node in the network can be represented by a RESOURCE.
COMPOUND RESOURCE COMPOUND DETAIL ASSIGNMENT	Reference	Defines the semantics of aggregating COMPOUND RESOURCEs using aggregation. It associates the various components. Also see the TMF SID and the DEN-ng system for more details. See also COMPOUND RESOURCE DETAIL.
COMPOUND RESOURCE DETAIL	Reference	Defines the semantics of the COMPOUND RESOURCE aggregation. Compound Element Detail is abstract, because only its subclasses should be instantiated. There are three concrete subclasses of this class, which are used to represent the aggregation of PHYSICAL RESOURCE, LOGICAL RESOURCE, and COMPOUND RESOURCE into this particular COMPOUND RESOURCE.
COMPOUND RESOURCE DETAIL TYPE	Lookup	The various types for a COMPOUND RESOURCE DETAIL. For example: ■ PHA: Physical Aspect ■ LGA: Logical Aspect ■ OTHA: Other Aspect
COMPOUND RESOURCE PHYSICAL DETAIL	Reference	This is a concrete entity that defines the semantics of aggregating PHYSICAL RESOURCE into a COMPOUND RESOURCE.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
COMPOUND RESOURCE ROLE	Reference	This entity is a role that is defined by the interaction between PHYSICAL RESOURCE ROLEs and LOGICAL RESOURCE ROLE. There must be at least one or more PHYSICAL RESOURCE ROLEs and one or more LOGICAL RESOURCE ROLE to form a Compound Element Role. However, neither a PHYSICAL RESOURCE ROLE nor a Logical Element Role has to belong to a Compound Resource Role.
COMPOUND RESOURCE ROLE ASSIGNMENT	Reference	Implements the relationship between COMPOUND RESOURCE and network element role.
COMPOUND RESOURCE ROLE SPEC	Reference	Specification of COMPOUND RESOURCE ROLE: it details the common characteristics of a COMPOUND RESOURCE ROLE.
COMPOUND RESOURCE SPEC	Reference	This is the abstract base entity that defines the invariant characteristics and behavior, attributes, methods, constraints, and relationships, of a COMPOUND RESOURCE. The key difference between a Compound Resource Spec and either a PHYSICAL RESOURCE SPECIFICATION and a LOGICAL RESOURCE SPECIFICATION is that a PHYSICAL RESOURCE SPECIFICATION and LOGICAL RESOURCE SPECIFICATION define templates for specifying the invariant characteristics and behavior of PHYSICAL RESOURCEs and LOGICAL RESOURCEs, respectively. In contrast, a Compound Resource Spec describes templates that contain at least one PHYSICAL RESOURCE SPECIFICATION and at least one LOGICAL RESOURCE SPECIFICATION. Optionally, one or more Compound Resource Specs may also be specified. Thus, a Compound Resource Spec is in effect a "shorthand notation" for specifying complementary PHYSICAL RESOURCE SPECIFICATIONs and LOGICAL RESOURCE SPECIFICATIONs.
COMPOUND RESOURCE SPEC ATOMIC	Reference	This entity describes specific attributes, behavior, relationships, constraints, and semantics for building COMPOUND RESOURCE objects. The purpose of this entity is to track specifications of COMPOUND RESOURCEs separately from other types of Resource Specifications. This entity inherits the Modifies Resource Spec aggregation, and therefore can be used with the corresponding COMPOUND RESOURCE entity. The key difference between a COMPOUND RESOURCE SPEC and either a PHYSICAL RESOURCE SPECIFICATION and a Logical Resource Type is that a PHYSICAL RESOURCE SPECIFICATION and Logical Resource Type define templates for specifying the invariant characteristics and behavior of PHYSICAL RESOURCEs and LOGICAL RESOURCEs, respectively. In contrast, a COMPOUND RESOURCE SPEC describes templates that contain at least one PHYSICAL RESOURCE SPECIFICATION and at least one Logical Resource Type. Optionally, one or more COMPOUND RESOURCE SPECs may also be specified. The difference between a Compound Resource Spec Atomic entity and a COMPOUND RESOURCE SPEC COMPOSITE entity is that a Compound Resource Spec Atomic entity is designed to be a standalone entity. Note that it still aggregates at least one PHYSICAL RESOURCE SPECIFICATION and at least one Logical Resource Type; however, the result is that this Compound Resource Spec Atomic entity can be used by itself.) In contrast, a COMPOUND RESOURCE SPEC COMPOSITE entity is made up of one or more COMPOUND RESOURCE SPECs, one of which must be a Compound Resource Spec Atomic entity.
COMPOUND RESOURCE SPEC COMPOSITE	Reference	This entity describes specific attributes, behavior, relationships, constraints, and semantics for building composite COMPOUND RESOURCE objects. The purpose of this entity is to track specifications of COMPOUND RESOURCEs separately from other types of Resource Specifications. This entity inherits the modifies Resource Spec aggregation, and therefore can be used with the corresponding COMPOUND RESOURCE entity. The key difference between a COMPOUND RESOURCE SPEC and either a PHYSICAL RESOURCE SPECIFICATION and a Logical Resource Type is that a PHYSICAL RESOURCE SPECIFICATION and Logical Resource Type define templates for specifying the invariant characteristics and behavior of PHYSICAL RESOURCEs and LOGICAL RESOURCEs, respectively. In contrast, a COMPOUND RESOURCE SPEC describes templates that contain at least one PHYSICAL RESOURCE SPECIFICATION and at least one Logical Resource Type. Optionally, one or more COMPOUND RESOURCE SPECs may also be specified. The difference between a COMPOUND RESOURCE SPEC ATOMIC entity and a Compound Resource Spec Composite entity is that a COMPOUND RESOURCE SPEC COMPOSITE entity is designed to be a standalone entity. (Note that it still aggregates at least one PHYSICAL RESOURCE SPECIFICATION and at least one Logical Resource Type; however, the result is that this COMPOUND RESOURCE SPEC ATOMIC entity can be used by itself.) In contrast, a Compound Resource Spec Composite entity is made up of one or more COMPOUND RESOURCE SPECs, one of which must be a COMPOUND RESOURCE SPEC COMPOSITE entity.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
COMPOUND RESOURCE TP DETAIL	Reference	Concrete entity that links TERMINATION POINT to COMPOUND RESOURCE. For example, it will describe characteristics and behavior of the TERMINATION POINTs that comprise this particular Resource Port in terms of dependencies and how a TERMINATION POINT interacts with other TERMINATION POINTs.
COMPOUND RESOURCE UNIT	Reference	A Resource Unit is an entity that is individually manageable. The Compound Resource Unit is an aggregate entity consisting of both physical and logical aspects of a managed Resource. For example, a ROUTER is a Resource Unit. Different PHYSICAL RESOURCE objects can model the physical aspects of the ROUTER in detail. For example, its CARDs, the number and type of PHYSICAL PORTs that are on each CARD, and so forth), and different LOGICAL RESOURCE objects can model the logical aspects of the ROUTER in detail (For example, what Software it is running, how many DEVICE INTERFACEs of what type are currently enabled, if there are any outstanding Faults or Alarms, and so forth). Resource aggregates all PHYSICAL RESOURCE and LOGICAL RESOURCE objects, enabling a high-level view of the physical and logical aspects of the Resource to be provided.
CONFIGURABLE PRODSPECCHAR PRODSPEC ASSIGNMENT	Reference	Assigns one or more CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTICs to a PRODUCT SPECIFICATION. Multiple products may have the same CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTICs.
CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTIC	Reference	Available features that may be associated with one or more PRODUCT SPECIFICATIONs. For example, for a handset there are features such as: ▪ MP3 indicator ▪ MIDIindicator ▪ 3G indicator ▪ JAVA indicator ▪ GSM 1800 indicator
CONNECTION	Reference	This is a class of managed objects responsible for the transparent transfer of information between CONNECTION TERMINATION POINTs. A Connection is a component of a Trail. Several connections can be bundled into a higher rate trail. A sequence of one or more Connections are linked to form a Trail. A Connection may be either uni- or bi-directional.
CONNECTION TERMINATION POINT	Reference	This is an actual or potential end point of a Network connection. For example, this can represent a logical channel or a timeslot on a physical link. All PHYSICAL PORTs connect to at least one type of CTP.
CONSEQUENCE PERFORMANCE NOTIFICATION	Reference	A communication that occurs as part of a PERFORMANCE CONSEQUENCE. A Notification is typically one-sided, in that no Response is expected. For example, an alert be raised as the result of a PERFORMANCE OBJECTIVE being violated.
CONSEQUENCE PERFORMANCE NOTIFICATION SPEC	Reference	The invariant characteristics that define a communication (notification) that occurs as part of a PERFORMANCE CONSEQUENCE. A Notification is typically one-sided, in that no Response is expected. For example, an alarm may be raised as the result of a PERFORMANCE OBJECTIVE being violated.
CONTACT CENTER DAY DERIVED	Derived	Specifies customer contact statistics. The customer contacts are analyzed.
CONTACT LIST	Reference	Lists of potential and existing CUSTOMERs for CAMPAIGNs. Contact lists can be created by the TELCO from marketing activity, running certain models, or obtained from another organization.
CONTACT LIST CHANGE REASON	Lookup	Lookup for possible reasons for changing the CONTACT LIST.
CONTACT LIST COST	Base	Subtype of COST, which applies to a specified CONTACT LIST (usually this is a cost associated with the purchase and maintenance of a contact list).
CONTACT LIST RECURRENCE TYPE	Lookup	A categorization of the recurrence of a CONTACT LIST. For example: ▪ W = Once a Week ▪ M = Once a Month ▪ Y = Once a Year ▪ MI = Once a Month with Invoice.
CONTACT MEDIUM	Lookup	Medium used to get into Contact with customer or third party in a business interaction. Typically phone, letter, fax, visit, or chat.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CONTACT ROLES	Lookup	Describes the various roles a contact individual may play in the relationship with the operator.
CONTENT	Reference	Keeps all downloadable content provided to the customer through the operator's network. For example: ▪ Weather reports ▪ Constellation ▪ Jokes
CONTENT DELIVERY EVENT	Base	EVENT in which content was downloaded.
CONTENT PRICE	Reference	Price for downloading/ordering the content. This price is for individual content clip. There might be other contents priced as a flat rate rather than different price for each content. In this case, the pricing information should be in PRODUCT OFFERING PRICE.
CONTENT PRICING TYPE	Lookup	Lookup for types of content pricing. For example: ▪ Charge per download ▪ Monthly fixed rate
CONTENT PROVIDER	Reference	Provider for content that would be consumed by end user. The contents could be video, audio clips, or text content.
CONTENT TYPE	Lookup	Lookup for content types. For example: ▪ Constellation ▪ Jokes ▪ Weather report
CORE INTERFACE	Reference	Defines a DEVICE INTERFACE role that functions as a Core Interface, that is, an interface in the core of the network. The objective of this role is to enable the definition of POLICYs such that all Core Interfaces in a particular Domain can receive the same common configuration commands.
COST	Base	Costs that have been incurred from operations and events at trackable levels. For example: ▪ Gift offer expense ▪ Employee salary ▪ Commission ▪ Promotion delivery cost ▪ Carrier billing charge (for roaming/LAC/and so on)
COST CENTER	Reference	Cost Center of a COURIER or provider to which costs can be charged.
COST CENTER DERIVED	Derived	Statistics of all expenses by each business unit inside the carrier. It can be used for auditing and budgeting.
COST CENTER BUDGET	Base	The budget of each COST CENTER at a specific financial period.
COST CENTER MONTH AGGR	Aggregate	Summary at month level of COST associated with COST CENTER and ORGANIZATION BUSINESS UNITs.
COST REASON	Lookup	Lookup of all possible reasons why the cost occurred. For example: ▪ Natural disaster ▪ Operator error
COST SUBTYPE	Lookup	Lookup to further classify COST TYPEs. For example: ▪ Acquisition cost ▪ Retention cost ▪ Salary ▪ Damaged ▪ New machine ▪ Repair fee
COST TYPE	Lookup	Lookup for types of costs. For example, the cost is to the CUSTOMER, CHANNEL, COURIER, or to the EMPLOYEE (Mobile Monthly Claim or Purchase).

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
COUNT DAY DRVD	Derived	Critical Aggregation Summary at day level of various measures (counts) at customer, account, agreement, Main Product Subscription, and Product Subscription level as a function of Customer Type, County, Organization Business Unit, Product Offer level and Product Specification Level (full Hierarchies). It collects summable measures (like number of new customers, new subscriptions, churners, and so on) over the day as well as non-summable measures, like number of active accounts (end of day), suspended subscriptions, and so on. The measures are supposed to be all at the end of the day considered.
COUNT MONTH AGGR	Aggregate	Similar to COUNT DAY DRVD but at month level. The measures are supposed to be all at the end of the month considered (or the last past full day of data available of the current month).
COUPON SCAN	Lookup	Specifies the barcode on a store or manufacturer coupon. The coupon scan code comprises two parts: ▪ The first is a fixed 12 character code that contains the manufacturer identification, family code, and coupon value. ▪ The second is based on Code 128 and comprises up to 20 characters which specify the manufacturers number system character, the offer code, and end of offer code. The supplementary Code 128 was introduced as a guideline in 1997. These codes are included: Primary Label, Secondary Label, Coupon ID.
COUPON TYPE	Lookup	Lookup for type of coupon used.
COURIER	Reference	The party who provides the Courier service for the Telecom Operator.
COURIER COST	Base	Subtype of COST which applies to a COURIER for delivering products or invoices to the customer.
CPE LOGICAL DEVICE ROLE	Reference	Defines required logical features to implement the specific role of a CPE (Customer Premise Edge) device, as used in a PRODUCT SPECIFICATION or SERVICE.
CREDIT CATEGORY	Reference	List of credit categories available that may be assigned to customers. For example: ▪ Excellent ▪ Good ▪ High risk
CREDIT SCORE PROVIDER	Reference	Provides reference financial rating scores for each customers to the service provider. This information is also called the "Credit Rating Agency".
CROSSED THRESHOLD	Reference	Indicates the identifier of the threshold that caused the alarm. It has to be in relation with a RESOURCE ALARM.
CURRENCY	Lookup	Lookup for currencies that may be used in a transaction.
CURRENCY EXCHANGE RATE	Base	Exchange rate against the primary currency, as determined by exchange rate type and value date.
CURRENCY GEOGRAPHY ENTITY ASSIGNMENT	Reference	Assigns currency usage to a geographic area.
CUSTOM QUEUING SERVICE	Reference	Custom Queueing enables the designer to specify a particular number of bytes, packets, or flows to forward from a specific Queue each time the Queue is serviced.
CUSTOMER	Reference	Information pertaining to customers.
CUSTOMER ACCOUNT	Reference	Account associated to a CUSTOMER from a pure Retail shop perspective. It has otherwise the same behavior as ACCOUNT, but is specific to the retail view, to allow the possibility for the same customer to have two accounts: one for Retail, one for standard Telecommunications Provider (Billing and CRM) just in case they are separate and might not be easily conciliable upfront.
CUSTOMER ACQUISITION SUMMARY MONTH AGGR	Aggregate	Monthly summary of newly acquired customers by PRODUCT SPECIFICATION.
CUSTOMER ADDRESS	Reference	Address associated with a customer as given to the Retail Unit in contact with customer.
CUSTOMER AFFILIATION	Reference	Associates a CUSTOMER with a CUSTOMER GROUP.
CUSTOMER CHURN MONTH AGGR	Aggregate	Summary of churners per month by reason.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CUSTOMER CLASS	Lookup	Lookup for Customer Classification codes. For example: ▪ HLCU-High Local Call Usage Customers ▪ HNCU-High National Call Usage Customers ▪ HINCU-High InterNational Call Usage Customers
CUSTOMER CLASS ASSIGNMENT	Reference	Assign customer to a customer class. A customer may belong to different customer classes because of their usage behavior at different times, therefore customer to customer class is a many to many relationship.
CUSTOMER CLUSTER	Reference	Identifies the cluster that the CUSTOMER falls into, based on buying behavior.
CUSTOMER CLUSTER TYPE	Lookup	Define types of CUSTOMER CLUSTER.
CUSTOMER COMMENT	Data Mining	Specifies storing concatenated customer comments in last 1 year, customer comments' score, and so on.
CUSTOMER COMMUNITY	Reference	The Customer Communities identified by mining algorithm.
CUSTOMER COST	Base	Subtype of COST which applies to a customer. For example, the cost of a gift that is sent to a customer.
CUSTOMER COST DRVD	Derived	Statistics of various costs incurred to the customer. This information is important from the analysis point of view. For example, subscriber acquisition cost, subscriber retention cost, and so on.
CUSTOMER COST MONTH AGGR	Aggregate	Statistics of various costs incurred to the customer. These details are important for analysis such as: ▪ Subscriber retention cost ▪ Subscriber acquisition cost
CUSTOMER DEBT COLLECTION MONTH AGGR	Aggregate	Summary of customer in debt per month (status at the end of the month or latest past full day of the current month).
CUSTOMER DECISION TREE NODE	Reference	Mining target entity to store Decision Tree mining model details.
CUSTOMER DNA DRVD	Derived	The D.N.A of the customer at month level collects any information available about the customer (socio-demographic data, products, purchase, payment and recharge behavior, call behavior, interactions with call center and support, issues, complains, and so on, for mining purposes.
CUSTOMER DOCUMENT	Reference	Various types of customer proof documents provided for a CUSTOMER ORDER, AGREEMENT, and so on.
CUSTOMER EQUIPMENT INSTALLATION DAY DRVD	Derived	Statistics related to customer equipment installation activities for each customer. These statistics typically include: modems, routers, or DSL boxes for internet and Television equipment
CUSTOMER EQUIPMENT INSTALLATION MO AGGR	Aggregate	Monthly summary of customer equipment installation activities. These statistics typically include: modems, routers, or DSL boxes for internet and Television equipment.
CUSTOMER FACING SERVICE	Reference	This is the base entity for defining CUSTOMER FACING SERVICEs. A CUSTOMER FACING SERVICE is an abstraction that defines the characteristics and behavior of a particular SERVICE as seen by the Customer or other appropriate PARTY ROLE. Thus, this PARTY ROLE purchases, leases, uses, and is otherwise directly aware of this type of SERVICE. This is in direct contrast to RESOURCE FACING SERVICEs which support CUSTOMER FACING SERVICEs but are not seen or purchased directly by the Customer. For example, a VPN is an example of a CUSTOMER FACING SERVICE, while the sub-services that perform different types of routing between network devices making up the VPN are examples of RESOURCE FACING SERVICEs.
CUSTOMER FACING SERVICE ROLE	Reference	Defines a SERVICE in terms of a set of SERVICE ROLEs for a CUSTOMER FACING SERVICE. This entity defines SERVICE ROLEs that represent the variable characteristics of a CUSTOMER FACING SERVICE in terms of the roles that this SERVICE plays. This entity enables the CUSTOMER FACING SERVICE to be managed abstractly using SERVICE ROLEs. The Customer Facing Service Role also helps define the SERVICE in terms of the functions that it has or provides.
CUSTOMER FACING SERVICE SPECIFICATION	Reference	Specifies the invariant characteristics and behavior of a particular CUSTOMER FACING SERVICE as seen by the CUSTOMER.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CUSTOMER FACING SERVICE SPECIFICATION ATOMIC	Reference	This entity defines CUSTOMER FACING SERVICE SPECIFICATIONs that do not have any subordinate CUSTOMER FACING SERVICE SPECIFICATIONs. In other words, a Customer Facing Service Spec Atomic is a standalone CUSTOMER FACING SERVICE SPECIFICATION, and does not require any supporting CUSTOMER FACING SERVICE SPECIFICATIONs to define the invariant characteristics (that is, non-changing attributes, methods, relationships, and constraints) of any CUSTOMER FACING SERVICEs that it serves as a template for.
CUSTOMER FACING SERVICE SPECIFICATION COMPOSITE	Reference	This entity defines an integrated set of CUSTOMER FACING SERVICEs that collectively meets the needs of a SERVICE requested by a Customer. For example, the Customer may have requested GoldService, which is a SERVICE PACKAGE that defines a set of SERVICE BUNDLEs, each of which has its own QoS. Each individual CUSTOMER FACING SERVICE that is part of the SERVICE PACKAGE can be derived from a CUSTOMER FACING SERVICE SPECIFICATION. In this case, a Customer Facing Service Spec Composite will aggregate all of the individual CUSTOMER FACING SERVICE SPECIFICATIONs into a single named object. This object is a standalone object. However, it consists of other Customer Facing Service Spec Composite and/or the CUSTOMER FACING SERVICE SPECIFICATION ATOMIC entities. That is the primary difference between this entity and the Customer Facing Service Spec Atomic entity.
CUSTOMER FACING SERVICE SPECIFICATION ROLE	Reference	Defines a Service Specification, in terms of a set of Service Specification Roles, for a CUSTOMER FACING SERVICE. This is the base entity for defining Service Specification Roles that are used to represent the invariant characteristics of a CUSTOMER FACING SERVICE. This entity enables the CUSTOMER FACING SERVICE to be managed abstractly using Service Specification Roles. The Customer Facing Service Spec Role also helps define the Service Specification in terms of the functions that it has or provides.
CUSTOMER FACING SERVICE SPECIFICATION VERSION	Reference	Keeps the historical versions of CUSTOMER FACING SERVICE SPECIFICATION.
CUSTOMER FIELD SERVICE ACTIVITY	Base	On site installation for the customer with particular equipment instance.
CUSTOMER FIELD SERVICE DETAIL	Base	Details regarding customer service.
CUSTOMER GROSS ORDER QUARTERLY	Aggregate	This entity gives order measures (number of orders and total order amount) in same quarters of consecutive years. For example: ▪ Order measures of Jan 2012 and Jan 2013 ▪ Order measures of Dec 2011 and Dec 2012 Provides information on order measures varying year over year.
CUSTOMER GROUP	Lookup	The lookup code for grouping the customers based on criteria defined by the service operator.
CUSTOMER GROUP ASSIGNMENT	Reference	A grouping of the customers based on criteria defined by the service operator.
CUSTOMER GROUP ITEM	Reference	The list of criteria used to group the CUSTOMERs under a specific CUSTOMER GROUP.
CUSTOMER INDIVIDUAL	Reference	Subtype of CUSTOMER (and PARTY), which contains details of individuals as opposed to organizations.
CUSTOMER OCCASION	Reference	Event celebrated or observed by a customer. For example: ▪ Birthday ▪ Anniversary ▪ Company establishment day
CUSTOMER OCCASION TYPE	Lookup	Lookup for occasion type. For example: Wedding Anniversary, Birthday, Company founding anniversary, and so on.
CUSTOMER ORDER	Base	Orders placed by customers. This customer order is currently for service providers shop service, where a customer can place an order for a handset, a broadband installation request, or make some other order.
CUSTOMER ORDER DAY DERIVED	Derived	Daily summary of CUSTOMER ORDERs and their status (end of the corresponding day).

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CUSTOMER ORDER DOCUMENT	Reference	The document provided while submitted CUSTOMER ORDER.
CUSTOMER ORDER LINE ITEM	Base	Details regarding items in the CUSTOMER ORDER.
CUSTOMER ORDER LINE ITEM DAY DERIVED	Derived	Summary of the details of CUSTOMER ORDER LINE ITEM status, per day. It allows identifying typical or recurrent issues in specific order types on specific items.
CUSTOMER ORDER LINE ITEM STATE ASSIGN	Base	Current state of an order line item.
CUSTOMER ORDER MONTH AGGR	Aggregate	Summarizes orders placed by customers at month level of aggregation. Using this entity, order measures (number of orders and total order amount) across order status, order type, product, product type dimensions can be computed
CUSTOMER ORDER PAYMENT	Base	Payments applied to a CUSTOMER ORDER.
CUSTOMER ORDER PRIORITY TYPE	Lookup	Lookup for possible priorities which can be assigned to a CUSTOMER ORDER.
CUSTOMER ORDER STATE ASSIGNMENT	Base	Current state of a CUSTOMER ORDER.
CUSTOMER ORDER STATE CHANGE REASON	Lookup	All type of reason for customer order state and customer order line item state changes.
CUSTOMER ORGANIZATION	Reference	Subtype of CUSTOMER (and PARTY), which contains details of organizations as opposed to individuals. An organization can also consist of one individual only (for example: independent).
CUSTOMER PRODUCT AFFILIATION	Derived	Mining target entity to store prediction results of target promotion mining model.
CUSTOMER PREFERENCE	Reference	Merchandise preferences of a Key Customer, for classes of items or other general categories.
CUSTOMER RELATIONSHIP	Reference	Association between CUSTOMERs. Information regarding the CUSTOMER or PROSPECT that is restricted to comply with privacy and other laws. This table is encrypted. For example: associating the Husband-Wife relationship.
CUSTOMER RELATIONSHIP TYPE	Lookup	Lookup for types of relationships that may exist between CUSTOMERs. For example: ▪ Married ▪ Employee-employer ▪ Parent-child
CUSTOMER RESTRICTED INFO	Reference	Detail information about a customer that may be deemed private.
CUSTOMER REVENUE BAND	Lookup	Entity contains a customer classification in revenue terms. For example: Customer with charges between $100 to $200.
CUSTOMER REVENUE BAND ASSIGNMENT	Reference	Assigns a revenue band to a customer.
CUSTOMER REVENUE TYPE	Lookup	Lookup for types of revenue a customer may bring to the operator. For example: ▪ Recharging ▪ Rent fee ▪ One time equipment purchase
CUSTOMER RFMP SCORE	Derived	Recency, Frequency, Monetary, and Profitability Value Score of a CUSTOMER, by ORGANIZATION BUSINESS UNIT.
CUSTOMER SCORE	Reference	Scores or Score ranges that may be assigned to a customer based on credit, behavior, or other criteria. For example: ▪ 1, 2, 3, 4, 5 ▪ 1-10, 11-20
CUSTOMER SEGMENT	Reference	Market or customer segments to which customer may be assigned.
CUSTOMER SEGMENT DETAIL	Reference	Specifies details for storing each customer segment derived from segmentation mining model.

Table 2–38 (Cont.) A to C Entity Descriptions

Entity Name	Type	Description
CUSTOMER SEGMENTATION MODEL	Reference	The segmentation model used to profile the customers. For example: ■ KMeans by Revenue from Market Department ■ O-Clustering by IT department
CUSTOMER SENTIMENT MANUAL SCORE	Derived	Specifies predefined dictionary to manually score customers' comments.
CUSTOMER SIC ASSIGNMENT	Reference	Assigns SIC/NASIC code to customers.
CUSTOMER SKU SALES RETURN DAY DRVD	Derived	SKU ITEM purchases and returns by CUSTOMER for an ORGANIZATION BUSINESS UNIT.
CUSTOMER SOURCE	Reference	Initial source or contact with customer. For example: ■ Sales campaign ■ Advertisement ■ Call center ■ Dealer
CUSTOMER STATUS REASON	Lookup	List of the possible REASONs for setting a customer in a given status.
CUSTOMER TYPE	Lookup	Lookup for type of customer. For example: Individual or Corporate.

Table 2–39 D to F Entity Descriptions

Entity Name	Type	Description
DATA SERVICE EVENT	Base	Data Service Events. For example ■ Fixed Line modem dial ■ Broadband access ■ GPRS service
DATA USAGE DAY DRVD	Derived	Daily aggregate of data usage.
DATA USAGE MONTH AGGR	Aggregate	Monthly aggregate of data usage.
DAY	Reference	Defines day, the lowest level of all calendars.
DAY ACTUAL CONDITION	Reference	Weather, external and internal conditions that may have impacted performance on a given day at a given location.
DAY TODATE TRANSFORMATION	Reference	Documents how todate transformation can be implemented at day level.
DAY TRANSFORMATION	Reference	Transformation for a day. For example, maps a day last year to a corresponding day this year, or a day last year, to a day last month, and so on.
DEAL	Reference	A deal refers to a special offer from a supplier to the telecom provider. The deal generally provides allowances, discounts, special favorable terms of payment or other incentives to motivate the service provider to buy more products or services from a supplier.
DEAL LINE ITEM	Reference	Identifies a specific product or service that is offered as part of a deal to the service provider and defines how the deal cost is to be handled.
DEALER	Reference	The PARTY who resells products from the operator.
DEALER DISCOUNT GROUP ASSIGNMENT	Reference	Assigns DEALER to a discount group(s).
DEBT AGING BAND	Lookup	Ranges of time used to group debt based on the age of the debt. For example: ■ 0-90 days ■ 91-180 days
DEFICIT ROUND ROBIN SCHEDULING SERVICE	Reference	Provide weighted fair distribution of bandwidth for multiple Queues that contain variable-length packets.
DEMOGRAPHIC CHARACTERISTIC	Reference	A feature or quality used to make recognizable or to define somebody or something, such as age, income, education, revenue, and so forth.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
DEMOGRAPHIC CHARACTERISTIC VALUE	Reference	A single value or range of values that defines a DEMOGRAPHIC CHARACTERISTIC.
DEMOGRAPHY ATTRIBUTE	Reference	User defined demographic attributes that can be assigned values.
DEMOGRAPHY GROUP	Reference	The domain of classifications used to group profile information about a PARTY. For example: ▪ CH - Credit History ▪ ED- Education ▪ EM - Employment ▪ EQ- Equipment ▪ HB - Hobbies ▪ HH - Household ▪ OR - Organization And other relevant demographics and psychographics.
DERIVED VALUE	Reference	Derived value of the customer based on predetermined criteria.
DESTINATION TYPE	Lookup	Lookup for the types of destination associated with CALL SOURCE DESTINATION. For example: ▪ National Fixed ▪ National Mobile ▪ International Fixed ▪ International Mobile
DEVICE INTERFACE	Reference	This is a concrete entity that represents the (logical) interface or sub-interface of a device. This entity is not a transmission entity; rather, DEVICE INTERFACEs are used to program SERVICEs and LOGICAL RESOURCEs on a Device. For example, use a Device Interface to program a logical connection from a device to a network medium. Different types of Device Interfaces exist for the different types of network media. For example IP compared with ATM, that are used in a network to enable such media to be programmed. The combination of a LOGICAL DEVICE and a Device Interface is what a developer programs to define SERVICEs that run on the device.
DEVICE INTERFACE DETAIL	Reference	In general, there are multiple ways to manage a DEVICE INTERFACE. The first distinction lies in what is being managed. the model defines two types of management commands categories: configuration and operational. Configuration commands are used to configure the DEVICE INTERFACE (and also the LOGICAL DEVICE for commands that affect multiple specific DEVICE INTERFACEs). Operational commands are used to monitor and troubleshoot the software, network connectivity, and the Device itself.
DEVICE INTERFACE PHYSICAL PORT ASSIGNMENT	Lookup	Defines which PHYSICAL PORT can support which DEVICE INTERFACE.
DEVICE INTERFACE ROLE	Reference	Represents different types of roles that can be associated with a particular DEVICE INTERFACE.
DEVICE INTERFACE TP ASSIGNMENT	Reference	Defines the relationship between DEVICE INTERFACE and TERMINATION POINT.
DIFFSERV SERVICE	Reference	Semantics that define how traffic is forwarded based on the value of the DSCP (DiffServ Code Point) of a packet.
DIRECT DEBIT STATUS REASON	Lookup	Lookup for the various reasons the current status is direct debit payment. For example: ▪ Customer preferred choice: when the customer does not want to use a credit card. ▪ Customer imposed: which means the CSP imposes this status after problems with credit card or cash payments.
DISCOUNT GROUP	Reference	Discount groups that employees or partners may be a part of.
DISCOUNT LINE ITEM	Base	Line Item associated with discounts in a retail transaction.
DISCOUNT SBRP PRICE ALTERATION	Reference	A discount, a reduction of price, for a PRODUCT SUBSCRIPTION.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
DISPOSITION TYPE	Lookup	Denotes what disposition a returned item was in. For example: ■ Return to vendor ■ Return to stock ■ Write off
DISTANCE BAND	Lookup	Distance ranges to characterize UDR EVENTs by geographical distance.
DIVERT RETRIEVE REASON	Lookup	Lookup for all reasons for diverting a call or retrieving a call from a Mailbox. For example: ■ Line busy (divert) ■ Line off (divert) ■ No answer (divert) ■ Customer originated (divert / retrieve) ■ Mailbox originated (retrieve only)
DIVERT RETRIEVE TYPE	Lookup	Lookup for types for diverting a call or retrieving a call. For example: ■ Divert ■ Retrieve Subscriber's calls are diverted to voice mail or to a Unified Messaging Service (UMS) mailbox as specified by the subscriber instructions or settings. For example, calls can be diverted when a subscriber is busy on another call, or when the subscriber has switched off the handset, or when a subscriber is not reachable. The subscriber can later retrieve all calls that are stored on the mailbox by accessing the mailbox through specified numbers or using the Internet, in case of UMS. All this traffic generated by diverted calls and retrieved calls is to be analyzed based on the type of call such as diverted or retrieved. The Divert Retrieve type helps in achieving this analysis by organizing calls as diverted or retrieved calls.
DOCUMENT CONDITION TYPE	Lookup	Lookup for possible document condition types. For example: ■ Complete ■ Incomplete ■ Unavailable
DOCUMENT TYPE	Lookup	Lookup for document types. For example: ■ Driver license photocopy ■ Address certification ■ Bank card photocopy
DOCUMENT TYPE GROUP	Lookup	The group of DOCUMENT TYPEs of which customer may provide to service provider for identification. For example: ■ Mandatory Document ■ Legal Requirement ■ Income Proof Document
DOCUMENT TYPE GROUP ASSIGNMENT	Reference	Assigns different DOCUMENT TYPEs into different DOCUMENT TYPE GROUPs.
DOMAIN	Reference	Domain from a web portal point of view.
DOMAIN TYPE	Lookup	Type of DOMAIN (web related).
DROPPER SERVICE	Reference	Specifies the dropper service. Droppers are distinguished by the algorithm that they use to drop traffic.
DSL MODEM	Reference	The xDSL modem to implement Broadband on copper wire (router). The DSLAM (Digital Subscriber Line Access Multiplexer) aggregates multiple xDSL users into the core IP network.
EDGE INTERFACE	Reference	Defines a DEVICE INTERFACE role that functions as an Edge Interface; that is, an interface on the edge of the network. The objective of this role is to enable the definition of POLICYs such that all Edge Interfaces in a particular Domain can receive the same common configuration commands.
EDUCATION	Lookup	Demographic education levels that may be assigned to customers.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
EF SERVICE	Reference	Specifies the policy to forward network traffic by adding specific semantics that characterize the operation of the Expedited Forwarding (EF) Service (RFC3246 and RFC3247).
EMAIL ADDRESS	Reference	List of email addresses as a generalization of ADDRESS LOCATION. Typically used for Retail shops.
EMAIL SERVICE	Reference	Specifies all the Email mail boxes allocated to CUSTOMER.
EMPLOYEE	Reference	Subtype of individual indicating an employee of the provider.
EMPLOYEE ACTUAL LABOR HOURLY	Base	Worked shifts by hourly employees.
EMPLOYEE ACTUAL LABOR SALARIED	Base	Worked shifts by salaried employees.
EMPLOYEE COST	Base	Subtype of COST, which applies to employee. For example, salary and bonus for employee.
EMPLOYEE DESIGNATION	Lookup	The various designations present in an organization for the employees. For example: ▪ Call Center Agent ▪ Manager Customer Care ▪ Consultant ▪ Principal Consultant
EMPLOYEE DISCOUNT GROUP ASSIGNMENT	Reference	Assigns EMPLOYEE to DISCOUNT GROUP(s).
EMPLOYEE EXPENSE REPORT	Base	The expense reports submitted by employees, including contractors, to claim their business expenses. The EMPLOYEE (Party) and PAYMENT CHANNEL (channel) are captured by its super entity EVENT. The expense submit date is the event begin date.
EMPLOYEE EXPENSE REPORT ITEM	Base	The detail line item of each EMPLOYEE EXPENSE REPORT.
EMPLOYEE EXPENSE REPORT STATE	Base	The different state of a given EMPLOYEE EXPENSE REPORT. For example: ▪ Submitted ▪ Pending Approval ▪ Approved ▪ Paid
EMPLOYEE JOB ROLE ASSIGNMENT	Reference	Assigns EMPLOYEE to JOB ROLE(s).
EMPLOYEE JOB ROLE TYPE	Lookup	Relevance of job role assignment to employee. For example: Primary, Secondary, and so on.
EMPLOYEE LANGUAGE CAPABILITY	Reference	Specifies the languages the employee can use to serve customers, especially for call center agents and sales representatives.
EMPLOYEE RESTRICTED INFO	Reference	Detail information about the EMPLOYEE that may be deemed private.
EMPLOYEE SCHEDULE	Reference	Planned staffing schedule of location, role, shift, and employees.
EMPLOYEE TRAINING RECORD	Base	List the trainings an employee has received. The employee training record is normally meant to apply to the call center agent, who is trained on specific products and or services.
EMPLOYEE TYPE	Lookup	Lookup of employee type. For example: ▪ Part-Time ▪ Contractual ▪ Full-Time
ENROLL CHANNEL	Lookup	Channel through which a customer gets enrolled into a LOYALTY PROGRAM.
ENROLL TYPE	Lookup	Type of ENROLL CHANNEL.
ENTITY	Reference	This entity represents entities that cannot be directly managed. For example, a hub.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
ENTITY ROLE	Reference	This is an abstract base entity that defines the concept of various types of roles for entities that describe the function of the entities.
ENTITY SPECIFICATION	Reference	This is an abstract base entity that defines the invariant characteristics, attributes, methods, constraints, and relationships, of another entity.
ENTRY METHOD	Lookup	Lookup for method used of entering transaction data. For example: ■ Entry Through Key ■ Entry Through Magnetic Ink Character Recognition ■ Entry Through MSR ■ Entry Through Scanning ■ Entry Through Smart Card
ENVIRONMENT TYPE	Lookup	Defines the temperature, relative humidity, lighting, and other physical or climatic environmental requirements for storing and displaying the item.
EQUIPMENT	Reference	The devices, delivered by COURIER or collected at the DEALER shop, that a CUSTOMER can use to access services. The device might be Cell Phone, Fixed Line Phone, Fax Machine, and so on. The devices might be lent or sold to the customer. The equipment entity is a subtype of PRODUCT SPECIFICATION.
EQUIPMENT CENTER	Reference	Facility housing devices.
EQUIPMENT CENTER COST	Base	Subtype of COST, which collects all costs that are specifically related to a given EQUIPMENT CENTER (facility rent, taxes, and so on).
EQUIPMENT FUNCTIONALITY	Reference	The function of the EQUIPMENT. For example: ■ Make wireless calls ■ Send SMS ■ Send MMS
EQUIPMENT FUNCTIONALITY ASSIGNMENT	Reference	Assigns functionality to EQUIPMENT.
EQUIPMENT HOLDER	Reference	Represents physical objects that are both manageable and able to host, hold, or contain other physical objects. Examples of physical objects that can be represented by instances of this object class are RACKs, CHASSISs, Shelves, and SLOTs. The difference between subclasses of Equipment Holder, such as a SLOT or a CHASSIS, and subclasses of EQUIPMENT that have a Holder role, such as a CARD, is that the subclasses of Equipment Holder are dedicated to holding other Hardware. The subclasses of EQUIPMENT that have a holder role have a holding capability as a secondary capability, usually for expansion. Their primary function, however, is not to hold other objects.
EQUIPMENT INSTANCE	Reference	Implement communications. For example: ■ Handset (with IMEI) ■ Land line phone (with serial number) ■ Set-top box ■ Cable modem
EQUIPMENT INSTANCE STATUS TYPE	Lookup	Lookup for type of specific equipment instance status type. For example: ■ Purchased from vendor ■ In inventory ■ In customer ■ Broken ■ Reserved
EQUIPMENT RENTING AGREEMENT	Reference	Sub-type of AGREEMENT in which customer leases some equipment. Those equipment that still belong to the service provider. When the AGREEMENT terminates, the device should be returned to service provider.
ERRORED MEDIATED CALL EVENT	Base	The errored/recycled mediated event record from billing engine.
ERRORED RATED WIRELESS CALL EVENT	Base	The errored/recycled rated event record from billing engine.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
ERRORED RAW WIRELESS CALL EVENT	Base	The errored/recycled/rejected raw event record from the mediation process.
ETHERNET INTERFACE	Reference	Lists of the various Ethernet Device Interfaces.
EVENT	Base	Describes the interactions with the Communications Service Provider. Event contains only "non-network" events (anything other than a call data record). An event can occur related to a provider. For example, for equipment down or a service disruption. An event can occur related to a CUSTOMER. For example, for a service order or a bill payment. Events store customer behavior to make special campaigns or to analyze the cost of customers. Normally an event incurs some cost and may generate revenue for the operator. The information specific to the type of event, or event interaction, is stored in corresponding event subtypes.
EVENT ACCESS METHOD ACTIVITY	Base	Occurrence of Access Method Usage.
EVENT ACCOUNT	Base	Events occurring on an account. For example: ▪ Account create ▪ Account suspension/resume ▪ Line (account) termination attempted (convinced back by representatives) ▪ Line termination
EVENT AGREEMENT	Base	Events related to agreement creation, cancellation, churn, or change, usually triggered after a business interaction.
EVENT ASSIGNMENT	Base	Describes relationship between unique events.
EVENT ASSIGNMENT REASON	Lookup	Lookup for all possible reasons why a relationship exists between two EVENTs. For example: ▪ Premise ▪ Result in
EVENT ASSIGNMENT TYPE	Lookup	Lookup for all types of relationships between two EVENTs.
EVENT CATEGORY	Lookup	Lookup for EVENT CATEGORY which is further grouped into EVENT TYPE. For example: ▪ Loyalty Program Event ▪ Access Method Event
EVENT CIRCUIT RENTAL	Base	Subtype of "Non UDR Events", corresponding to the rental of a fixed line (broadband or phone line). The rental normally incurs charges for various type of activities. For example: ▪ Initial Installation ▪ Maintenance Check ▪ Termination
EVENT CLASS	Lookup	Lookup for the classification for the types of EVENTs that can occur. For example: ▪ IN: involves only Communications Service Provider ▪ OUT: involves customer
EVENT COMPOSITE PRODUCT SPECIFICATION	Base	Events associated with an offer or COMPOSITE PRODUCT SPECIFICATION. Subtype of EVENT.
EVENT COST	Base	Subtype of COST, which is specifically related to a given EVENT. This cost is usually for a non-UDR event such as an interaction with a customer. For example, for on-site maintenance after a service issue or a break-down.
EVENT EMIT DETAIL	Reference	The expressions that determine what, if any, constraints are to be applied to this Policy Event Set. This entity also defines additional semantics to help identify the type of this event.
EVENT EMPLOYEE ACTIVITY	Base	Specifies the EMPLOYEE activities (sales, installation, and so on). Subtype of EVENT.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
EVENT EMPLOYEE PAYROLL	Base	Event in which payroll payment was made to an employee (excludes sales commission). Subtype of EVENT.
EVENT EQUIPMENT INSTANCE	Base	Events per instance of EQUIPMENT. Subtype of EVENT.
EVENT FINANCIAL	Base	Financial event involving an account or billing statement. Subtype of EVENT.
EVENT GEOGRAPHY	Base	Events affecting a Geographic Area that may have an impact on a provider's business. Subtype of EVENT. For example: ■ Earthquake ■ Power Outage ■ Labor Strike
EVENT LOCATION	Reference	Assigns an address location to the EVENT.
EVENT LOYALTY PROGRAM	Base	Events associated with each event or transaction on a customer loyalty program. For example: ■ Loyalty points earned by the customer ■ Bonus points awarded to the customer ■ Points redeemed by the customer
EVENT PARTY ASSIGNMENT	Base	Many to many relationship assigning a party or multiple parties to event(s).
EVENT PARTY INTERACTION	Base	Interactions or communications with the customer. For example: ■ Faults ■ Inbound and outbound telemarketing ■ Direct mail ■ SMS ■ Email ■ Service calls ■ Complaints ■ Debt collection
EVENT PARTY INTERACTION CHARACTERISTIC VALUE	Reference	A value of a given Party Interaction Characteristic, associated with a full thread of interaction. The first interaction of the thread is the so-called "party interaction code".
EVENT PARTY INTERACTION CHAT DETAIL	Base	Subtype of EVENT PARTY INTERACTION which represents the chat history details between the service representative and the CUSTOMER. Each chat message is saved as one record.
EVENT PARTY INTERACTION ITEM	Base	When multiple threads are discussed in a single EVENT PARTY INTERACTION, this line item lists the involved threads and other information including accounts, subscriptions, and so on.
EVENT PARTY INTERACTION PARTICIPATION	Base	Tracks multiple employees who participate in a same interaction with a customer
EVENT PARTY PROFILE	Base	Event in which party profile information was modified or updated.
EVENT PARTY ROLE	Lookup	Role played by a PARTY in an EVENT. For example: ■ Customer who reported the event ■ Customer affected by event ■ Party who caused the event
EVENT PREPAID MOBILE	Base	Actions involving PREPAID MOBILE EVENT TYPE account. Subtype of EVENT ACCOUNT. For example: ■ Initial activation ■ Recharges ■ Adjustments ■ Deactivation

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
EVENT PRODUCT SUBSCRIPTION WIRELESS	Base	Events associated with a subscription. Subtype of EVENT. For example: ▪ Subscription activation ▪ Reimbursement on prepaid account ▪ Termination ▪ Suspension because of insufficient deposit
EVENT REASON	Lookup	Lookup for event reasons. For example: arrearage.
EVENT REASON CATEGORY	Lookup	Lookup for event reason categories. Categories are further grouped into event reasons.
EVENT RESOLUTION	Reference	The domain of results that may occur in the resolution of an EVENT.
EVENT RESPONSE REASON	Lookup	Lookup for possible response reasons that may be used in an EVENT.
EVENT RESULT	Lookup	Lookup for the description of a result or any events. For example: ▪ Successfully processed ▪ Escalated ▪ Refused by CSP ▪ Refused by customer ▪ Failed – Impossible ▪ Failed – process error
EVENT SIM CARD	Base	Events associated with a SIM CARD. Subtype of EVENT.
EVENT STATUS	Base	Lookup for event status. For example: ▪ Completed ▪ Pending ▪ In-Progress ▪ Suspended ▪ Cancelled ▪ Abandoned
EVENT STATUS REASON	Lookup	Lookup for event status reasons. For example: ▪ Insufficient funds ▪ Stolen card
EVENT STATUS TYPE	Lookup	Lookup for EVENT STATUS. For example: ▪ Complete ▪ Pending ▪ In-Progress ▪ Suspended ▪ Cancelled ▪ Abandoned
EVENT SUBSCRIPTION CHANGE	Base	Events involving temporal provisioning and relinquishment of products and services to current subscription base.
EVENT TRIGGER DETAIL	Reference	Tracks the execution, evaluation of POLICY RULE on each POLICY EVENT.
EVENT TYPE	Lookup	Lookup for event type. For example: ▪ In Loyalty Program Event 1.1 Points Accumulation 1.2 Redemption ▪ Access Method Event 2.1 Access Method Login (connect) 2.2 Access Method Logout (disconnect) 2.3 Access Method Suspension (because of late payment or other reason)
EXCHANGE LOCATION	Reference	Specifies service area served by the central office.

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
EXCLUDE PORT DETAIL	Reference	The attribute exclusionFunction is designed to be populated from an external management system, and represents the criteria for excluding one or more Ports. A predefined exclusion function is to limit the role that a Port plays to an edge role. However, this class enables additional functions to be used to exclude Ports.
EXPENSE REPORT PARTY ASSIGNMENT	Base	The involvement of different PARTYs in a given EMPLOYEE EXPENSE REPORT. For example: ■ The employee who claims the expense ■ The employee who approves the expense ■ The customer involved in the expense justification
EXPENSE REPORT STATE TYPE	Lookup	Lookup for the types of STATE which an EMPLOYEE EXPENSE REPORT may be in. For example: ■ Submitted ■ Pending approval ■ Approved ■ Paid
EXPENSE TYPE	Lookup	Lookup for type of expense being claimed. For example: ■ P = expense was pre-paid by the company ■ C = Cash advance ■ E = Actual expense incurred by requestor
EXPIRY BASIS TYPE	Lookup	Type of Basis or REASON for Expiry. It could be time-based (x months, or so) after first activation or after first or last call, or event based (something happened or a specific date like New Year passed so it expires).
EXTERNAL CREDIT PROFILE	Reference	A source of information that helps define the credit worthiness of the customer.
EXTERNAL CREDIT PROFILE ASSIGNMENT	Reference	Indicate which external agency or institute provided the credit profile for the given customer.
EXTERNAL INFORMATION SOURCE	Reference	Source from which the demographic information or customer information is obtained.
EXTERNAL OPERATOR	Reference	All operators the Service Provider does business with, including inland competitors or roaming partners.
EXTERNAL ORGANIZATION TYPE	Lookup	Lookup for types of external organizations.
FACTOR COMPANY	Reference	Stores the information about the factor company, which is the financial instrument holding the receivables.
FAIR QUEUING SERVICE	Reference	Ensure that each Queue receives a fair share of the set of applicable metrics, for example bandwidth, that are divided among the different Queue instances.
FAULT RESOLUTION TYPE	Lookup	Lookup for available types of network fault resolution.
FAULT TYPE	Lookup	Lookup for available types of faults.
FDA	Reference	The FDA is the Fibre Distribution Area. The FDA is an aggregated fiber broadband geographical area served. Each area served is one "Network Site".
FIELD ACTIVITY RESULT TYPE	Lookup	Lookup for available result types for customer field activities that are performed by support engineers. For example: ■ S - Successful ■ F - Failed
FIELD ACTIVITY TYPE	Lookup	Lookup for types of customer field activities that may be performed by support engineers. For example: ■ Installation ■ Troubleshooting ■ Upgrade

Table 2–39 (Cont.) D to F Entity Descriptions

Entity Name	Type	Description
FIREWALL ROLE	Reference	Abstracts the different routing capabilities necessary for a LOGICAL DEVICE to have. This helps simplify the modeling of (especially) network devices, which have many different sets of capabilities. For example, most routers can do routing, forwarding, and firewalling of traffic. By modeling these capabilities as three roles, router functionality is both abstracted and categorized, so that the differences between firewalling done by a router and firewalling done by a dedicated firewall device can be differentiated.
FISCAL HALF MONTH	Reference	Defines half-month in a fiscal calendar.
FISCAL HALF YEAR	Reference	Defines half-year in a fiscal calendar.
FISCAL MONTH	Reference	Defines month in a fiscal calendar.
FISCAL QUARTER	Reference	Defines quarter in a fiscal calendar.
FISCAL WEEK	Reference	Defines week in a fiscal calendar.
FISCAL YEAR	Reference	Defines year in a fiscal calendar.
FIXED LINE CALL EVENT	Base	Event involving a call made on a Fixed Line telephone.
FIXED LINE PORT	Reference	The port ID associated with the telephone plug that provides a customer with fixed line service. The Fixed Line Port connects a customer's phone to a SWITCH.
FIXED LINE RATING PLAN	Reference	Subtype of PRODUCT OFFERING PRICE associated only with Fixed Lines.
FIXED LINE SERVICE	Reference	Subtype of SERVICE for detail information on the fixed line service.
FLEXIBLE CHARACTERISTIC	Reference	An abstracted entity to provide common structure for all types of characteristics. All of the various types of characteristics may be applicable to the subject, including product, service, network element, and so on. This entity provides a flexible way to define additional attributes for those entities with complex features.
FLEXIBLE CHARACTERISTIC ASSIGNMENT	Reference	Assigns the characteristic to the subject.
FLEXIBLE CHARACTERISTIC ASSIGNMENT TYPE	Reference	Lookup of ASSIGNMENT TYPE. For example: ▪ Depending on ▪ Having feature of ▪ Conflict with
FLEXIBLE CHARACTERISTIC RELATIONSHIP	Reference	Relationship between characteristics, for example, one characteristic may conflict with another.
FLEXIBLE CHARACTERISTIC TYPE	Lookup	Lookup of FLEXIBLE CHARACTERISTIC types.
FLEXIBLE CHARACTERISTIC VALUE	Reference	Possible values that a characteristic may take, including predefined choices or free numeric values.
FLEXIBLE CHARACTERISTIC VALUE ASSIGNMENT	Reference	Assigns the characteristic value to the applicable subject.
FLEXIBLE CHARACTERISTIC VALUE RELATIONSHIP	Reference	Relationship between two flexible characteristic values. For example, exclusiveness, same as, and so on.
FRAUD PROFILE CLASS	Lookup	Lookup for all possible classes of fraud profile that customers or dealers may commit.
FSAM	Reference	FSAM (Fibre Serving Area Module) is an aggregation of FDAs. The FSAM is a group of served areas by the operators of the service, mostly FTTH, or Optical Fiber Broadband.
FUEL SALE STATUS	Lookup	Lookup for status codes that may be applied to a fuel sale.

Table 2–40 G to J Entity Descriptions

Entity Name	Type	Description
GENDER	Lookup	Lookup for gender.
GEOGRAPHY BUILDING	Reference	Building level in GEOGRAPHY HIERARCHY.
GEOGRAPHY CITY	Reference	Cities defined in a GEOGRAPHY HIERARCHY.
GEOGRAPHY COMPLEX	Reference	Specifies the complex level in GEOGRAPHY HIERARCHY. The complex includes the complexes, a few building forming an enclosed area, in a city, at Universities, or industrial parks, and so on.
GEOGRAPHY COUNTRY	Reference	Countries defined in a GEOGRAPHY HIERARCHY.
GEOGRAPHY COUNTY	Reference	Counties defined in a GEOGRAPHY HIERARCHY.
GEOGRAPHY DEMOGRAPHIC GROUP	Reference	User-defined classification for DEMOGRAPHY ATTRIBUTEs.
GEOGRAPHY DEMOGRAPHY ATTRIBUTE	Reference	User defined attributes to describe demographic information for a given Geography.
GEOGRAPHY DEMOGRAPHY VALUE	Reference	User defined values corresponding to the DEMOGRAPHY ATTRIBUTEs.
GEOGRAPHY ENTITY	Reference	User defined geographic units.
GEOGRAPHY ENTITY ASSIGNMENT	Reference	Assignment of GEOGRAPHY ENTITYs to a user defined hierarchy level.
GEOGRAPHY ENTITY HIER LEVEL ASSIGNMENT	Reference	Assigns GEOGRAPHY ENTITYs to GEOGRAPHY HIERARCHY LEVELs.
GEOGRAPHY HIERARCHY	Reference	User defined geographic hierarchies.
GEOGRAPHY HIERARCHY LEVEL	Reference	User defined levels within a geographic hierarchy.
GEOGRAPHY HIERARCHY LEVEL ASSIGNMENT	Reference	Assignment of a GEOGRAPHY HIERARCHY level to a GEOGRAPHY ENTITY.
GEOGRAPHY LEVEL	Reference	User defined name and descriptions for GEOGRAPHY HIERARCHY LEVEL.
GEOGRAPHY LEVEL ATTRIBUTE	Reference	User defined attributes associated with a GEOGRAPHY LEVEL.
GEOGRAPHY LEVEL ATTRIBUTE VALUE	Reference	Values assigned to the GEOGRAPHY LEVEL ATTRIBUTEs.
GEOGRAPHY REGION	Reference	Defines a region in a GEOGRAPHY HIERARCHY.
GEOGRAPHY STATE	Reference	Defines a state in a GEOGRAPHY HIERARCHY.
GEOGRAPHY STREET	Reference	Defines a city in GEOGRAPHY HIERARCHY.
GEOGRAPHY SUB REGION	Reference	Defines a subregion in a GEOGRAPHY HIERARCHY.
GEOGRAPHY WORLD	Reference	Top level of GEOGRAPHY HIERARCHY.
GGSN	Reference	GGSN (Gateway GPRS Support Node) is the key component in GPRS and 3G system, which links the access network data into the IP-Network.
GIVE AWAY ITEM DAY DRVD	Derived	Statistics of all give away items to the customer for promotion or retention purposes.
GIVE AWAY TYPE	Lookup	Lookup for types of give-aways.
GL ACCOUNT	Reference	The GL accounts are defined to track financial status from a specific angle. All GL Journals are posted to various GL Accounts to reflect financial impact of each business transaction. Each account is defined by certain codes and flags, including whether the account is enabled, whether detail posting or detail budgeting is allowed, and others.
GL ACCOUNT ASSIGNMENT	Reference	Defines the relationship between two GL ACCOUNTs to form an Account Hierarchy. It stores lists of the detail accounts associated with each summary account.
GL ACCOUNT SEGMENT	Reference	Defines different types of GL ACCOUNT, including: Cash, Bank, Equipment, and so on.

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
GL ACCOUNT TYPE	Lookup	Lookup for types of GL ACCOUNTs. For example: ■ Asset ■ Liability ■ Equity
GL BALANCE	Base	Specifies actual, budget, and encumbrance balances for detail and summary accounts.
GL COST CENTER SEGMENT	Reference	Subtype of GL SEGMENT linking GL ACCOUNT to a specific COST CENTER.
GL JOURNAL ENTRY	Base	Specifies journal entries.
GL JOURNAL ENTRY BATCH	Base	Specifies journal entry batches.
GL JOURNAL ENTRY CATEGORY	Lookup	Lookup for journal entry categories. Specifies the category name and description. Each journal entry in the General Ledger is assigned a journal entry category to identify its purpose. For example: ■ Purchase Invoices ■ Receiving
GL JOURNAL ENTRY LINE	Base	Specifies the journal entry lines to track changes to each GL ACCOUNT made by a certain GL JOURNAL ENTRY. There is a one-to-many relationship between GL JOURNAL ENTRYs and journal entry lines.
GL JE LINE SUBLEDGER ASSIGNMENT	Base	Defines the relationship between GL JOURNAL ENTRY LINEs and GL SUBLEDGER JOURNAL ENTRY LINEs. Represents individual transactions from subledgers that have been summarized into General Ledger journal entry lines.
GL LEDGER	Reference	Defines information about the ledgers and the ledger sets defined in the Financial system. A GL Ledger is defined by 4C, chart of accounts (COA), functional currency, accounting calendar, and Accounting method.
GL LEDGER ACCOUNT ASSIGNMENT	Reference	Assigns the GL ACCOUNTs to GL LEDGERs to form the Chart Of Account (COA).
GL ORG BSNS UNIT SEGMENT	Reference	Assigns the GL ACCOUNT to corresponding ORGANIZATION BUSINESS UNIT.
GL PERIOD	Reference	Specifies information about the accounting periods defined with an Accounting Calendar.
GL PRODUCT SPECIFICATION SEGMENT	Reference	Assigns the GL ACCOUNT to corresponding PRODUCT SPECIFICATION.
GL PROJECT SEGMENT	Reference	Assigns the GL ACCOUNT to corresponding PROJECT.
GL REFERENCE	Reference	Groups or Categories referred from General Ledger to classify all revenue related activities.
GL SEGMENT	Reference	Each GL ACCOUNT contains a few independent segments, which are determined by the Financial System setup. For example, telecom operators may setup their GL Account in this format: <Country, Cost Center, Account, SubAccount> 1 Y3G1 US 1001 2000 2 Y1C1 JP 1001 3000 3 Y2C1 CN 2001 4000 In this example, Country, Cost Center, and so on, are all different GL Segments. Account 1001 may stand for Cash, while 2001 stands for Bank, and 4000 stands for a specific bank account, and so on. Each of the GL ACCOUNTs may be linked (rolled up) to a specific business entity (Concept), such as organization business unit, project, and so on, through the subentities of GL Segment. Note: Do not confuse Account in this description with ACCOUNT, which is customer account.
GL SEGMENT TYPE	Lookup	Lookup for type of GL SEGMENT. For example: ■ Project ■ Account ■ Project

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
GL SUBLEDGER	Reference	Specifies the subsidiary ledger, and represents original business transaction information that varies depending on the application.
GL SUBLEDGER JOURNAL ENTRY	Base	Represents subledger journal entries. The subledger Journal Ledger records the transaction at original level, that is each invoice, or each Purchase Order should have one entry in subledger journal entry.
GL SUBLEDGER JOURNAL ENTRY LINE	Base	Represents the subledger journal entry lines. There is a one-to-many relationship between subledger journal entry headers and subledger. The GL Subledger Journal Entry Line breaks down the GL SUBLEDGER JOURNAL ENTRY into different GL ACCOUNTs.
GPRS SERVICE	Reference	Subtype of PRODUCT SPECIFICATION, with more information about GPRS (General Packet Radio Service). The service provider provides various services such as Internet, WAP to its customers or subscribers over GPRS. The information about the usage of these services is to be analyzed at individual and aggregate level. The GPRS service dimension organizes all GPRS services.
GPRS USAGE EVENT	Base	Specifies the GPRS Session Event. This describes most of the fields you find in the GPRS S-CDRs and G-CDRs as defined by ETSI.
HALF HOUR	Reference	Half-hours defined as part of time.
HALF MONTH TODATE TRANSFORMATION	Reference	Todate transformation information at the half-month level.
HALF MONTH TRANSFORMATION	Reference	Transformations with respect to half-month. For example: ■ This half-month last year ■ This year last half-month
HALF YEAR TODATE TRANSFORMATION	Reference	Cumulative time transformations at the half-year level.
HALF YEAR TRANSFORMATION	Reference	Transformations with respect to half-year. For example: ■ This half-year last year ■ This year last half-year
HANDSET INSTANCE	Reference	Instance of a handset.
HANDSET MODEL	Reference	Models of handsets.
HARDWARE	Reference	This entity represents any type of hardware entity that exists as an atomic unit that is not a PHYSICAL LINK or a PHYSICAL CONNECTOR. Hardware is defined as any component that has a distinct physical identity and can be a component of a PHYSICAL DEVICE. An object has a physical identity if it has a physical manifestation that enables it to be held and have a label attached to it. Thus, software, files, protocols, and policies are not physical objects.
HEAD TAIL DROPPER SERVICE	Reference	Specifies the behavior of either a head dropper or tail dropper (for example, a dropper which drops from the head or tail of its queue, respectively). Subtype of DROPPER SERVICE.
HOLDER ATOMIC	Reference	Represents atomic holders of EQUIPMENT that are individually manageable and do not form composite, or nested, Equipment Holders. Each Holder Atomic object can be a FRU.
HOLDER COMPOSITE	Reference	Represents Equipment Holders that are made up of other Equipment Holders (that is, instances of this entity and the Holder Atomic entity). This provides the semantics of collecting a set of components, each of which is individually manageable, and being able to manage the set of objects as a whole. This containment is modeled using the Has Holders aggregation.
HOME SUBSCRIBER SERVER	Reference	The server holding customer account information in Intelligent Network (IN), or Internet Multimedia System (IMS). For example: ■ Home Subscriber Server (HSS) from IMS ■ Service Control Point (SCP)
HOUR	Reference	Hours defined as part of time.
HOUSEHOLD	Reference	Captures household information for the household that the individual customer may belong to.

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
IDD	Reference	Subtype of PRODUCT SPECIFICATION that provides information about IDD service.
IDD CALL EVENT	Base	Event involving an International Direct Dial (IDD) call.
IMPRESSION	Base	Details collected when a user accesses a web page.
IMPRESSION EVENT TYPE	Lookup	Lookup for types of details collected when a user accesses a web page.
IN PLATFORM	Reference	IN (Intelligent Network) platforms operated by the telecom service provider. The Prepaid mobile or toll-free business normally relies on IN platform.
IN PLATFORM DAY DRVD	Derived	Daily summation of parameters related to the IN PLATFORM functioning and performance on a daily level.
IN PLATFORM MONTH AGGR	Aggregate	Monthly summation of parameters related to the IN PLATFORM functioning and performance on a monthly level.
IN ROUTING DEVICE	Reference	Specifies all the different types of devices, such as VLR, HLR, and SCP servers, which are utilized in a network to decide the call routing in IN Network or Wireless IN Network (IN is Intelligent Network).
INDIVIDUAL DEMOGRAPHY PROFILE	Reference	The demographic values for individual customer and customer household.
INDIVIDUAL DEMOGRAPHY VALUE	Reference	Values assigned to user-defined DEMOGRAPHY ATTRIBUTEs.
INDIVIDUAL NAME	Reference	Records all names used by the individual party along the history.
INITIATIVE RESULT TYPE	Lookup	Lookup for all possible results of initiatives. For example, the result is: ▪ Becomes a customer ▪ Does not become a customer
INITIATIVE TYPE	Lookup	Lookup for available initiative types.
INSTALLMENT AGREEMENT	Reference	The installment payment scheme for customer bills.
INTERACTION ANSWER CHOICE	Base	Defined answers, choices, corresponding to initiative questions.
INTERACTION CHANNEL	Reference	Channels used for Provider or Customer interactions. For example: ▪ Call center ▪ Online business system ▪ Counter
INTERACTION DIRECTION	Lookup	Lookup for available directions for initiatives. For example: ▪ Inbound ▪ Outbound
INTERACTION NAVIGATION ASSIGNMENT	Reference	The navigation path between each two navigation items. For example, from Welcome Page to Log in page, or from Hot Offering to a specific PRODUCT OFFERING advertisement page, and so on. The navigation may change over the time, for example, a product may be on the Hot Offering page for only a short period.
INTERACTION NAVIGATION HISTORY	Base	The history of customer navigation path in each interaction call, or web visit. For example, in an IVR call, a customer may go through the following steps: 1. Welcome 2. Broadband 3. Account balance query These actions are realized as three records in the history.
INTERACTION NAVIGATION ITEM	Reference	Specifies all the possible places where customer may go to in the IVR or Web service context.

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
INTERACTION NAVIGATION ITEM TYPE	Lookup	Lookup for the type of Interaction Navigation. For example: ■ IVR Main Menu ■ Home Page ■ Account Activation ■ Account Balance Query ■ Network Fault Request
INTERACTION NAVIGATION LEVEL	Lookup	Lookup for the level of Interaction Navigation according to the path depth the item is in.
INTERACTION NAVIGATION TYPE	Lookup	Lookup for the type of INTERACTION NAVIGATION ITEM. For example: ■ IVR ■ Web Page
INTERACTION NAVIGATION TYPE VERSION	Reference	Historical versions of INTERACTION NAVIGATION ITEMs.
INTERACTION PRIORITY TYPE	Lookup	Lookup for the different priorities which can be assigned to each EVENT PARTY INTERACTION.
INTERACTION QUESTION RESPONSE	Base	Responses provided by CUSTOMER to interaction questions.
INTERACTION REASON	Lookup	Lookup for interaction reasons. For example: ■ Debt collection ■ Service call ■ Inbound marketing ■ Outbound marketing ■ Customer complaints
INTERACTION RESULT TYPE	Lookup	Lookup for possible responses to customer interaction. For example: ■ Showed interest without decision ■ Offer accepted ■ Never call again
INTERACTION STATUS	Lookup	Lookup for available interaction status. For example: ■ Planned ■ In-progress ■ Executed ■ Closed
INTERACTION STATUS TYPE	Lookup	Classification of Interaction Status for reporting purpose. Currently used similarly to INTERACTION STATUS.
INTERACTION TRANSFER HISTORY	Base	The history of interaction transfers.
INTERACTION TRANSFER REASON	Lookup	Lookup for reasons that an interaction is transferred from one agent to another one. For example: ■ Wrong routing ■ Another business interaction ■ To supervisor
INTERACTION TYPE	Lookup	Lookup for types of interactions between company and CUSTOMER. For example: ■ Email ■ Call Center Inbound ■ Call Center Outbound ■ Walk-In to the shop ■ Letter

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
INTERNET ACCESS EVENT	Base	Subtype of UDR EVENT, which captures customer internet surfing history with detailed URL and time information.
INVENTORY ADJUSTMENT DOCUMENT LINE ITEM	Base	The detail line item which applies an increment or decrement to the item's unit on hand and or the financial valuation.
INVENTORY ADJUSTMENT ITEM DAY DRVD	Derived	Inventory adjustment information at the item, ORGANIZATION BUSINESS UNIT, day-reason level.
INVENTORY CONTROL DOCUMENT	Base	A written or printed paper, or digital equivalent, that evidences the movement of merchandise or supply SKU ITEMs.
INVENTORY CONTROL DOCUMENT LINE ITEM	Base	Detail line on an INVENTORY CONTROL DOCUMENT that identifies the SKU ITEM, and unit of measure exchanged, or the freight, charges, taxes, and allowances applicable to a particular inventory control event and action.
INVENTORY ITEM STATE	Base	Specifies a unit record of a particular stock ITEM SPECIFICATION, held in a particular Inventory Location, in a particular Inventory State and controlled or managed by a particular Revenue Center.
INVENTORY LOCATION	Reference	Physical location where the retailer stores merchandise. The inventory location may be colocated at a SITE and does not include containers, ships, and trucks that are in transit.
INVENTORY POSITION DEPARTMENT DAY AGGR	Aggregate	Daily status and value of inventory. For example: ▪ Stock on hand ▪ On order for an ORGANIZATION BUSINESS UNIT and SKU ITEM
INVENTORY POSITION ITEM DAY DRVD	Derived	Status and value of inventory. For example: ▪ Stock on hand ▪ On order for an ORGANIZATION BUSINESS UNIT and SKU ITEM
INVENTORY POSITION SUBCLASS MONTH AGGR	Aggregate	Daily status and value of inventory. For example: ▪ Stock on hand ▪ On order for an ORGANIZATION BUSINESS UNIT and item subclass
INVENTORY RECEIPT ITEM DAY DRVD	Derived	Daily record of inventory receipts by item and ORGANIZATION BUSINESS UNIT.
INVENTORY TRANSFER ITEM DAY DRVD	Derived	Daily summary of transfer in and transfer out document statistics. Provides a daily summary of inventory transfers at the item, to ORGANIZATION BUSINESS UNIT, from ORGANIZATION BUSINESS UNIT, and transfer type. Daily summary of transfer in and transfer out document statistics summary of transfer in and transfer out document statistics.
INVENTORY UNAVAILABLE ITEM DAY DRVD	Derived	Weekly record of inventory receipts by subclass and ORGANIZATION BUSINESS UNIT.
INVENTORY VENDOR COMPLIANCE DAY DRVD	Derived	Daily summary of Vendors' Inventory Compliance.
INVOICE	Base	Invoices issued to accounts representing request for payment for goods and services for a specified period.
INVOICE ADJUSTMENT	Base	Adjustments made on the INVOICE.
INVOICE ADJUSTMENT MONTH AGGR	Aggregate	Monthly aggregation of calculated measures for all adjustments made on the INVOICEs.
INVOICE ADJUSTMENT QUOTA	Reference	Quota of INVOICE ADJUSTMENTs assigned to EMPLOYEE.
INVOICE ADJUSTMENT REASON	Lookup	Lookup for the possible reasons for an adjustment on a customer's or on a partner's bill. For example: ▪ Service Activation Error ▪ Billing Error ▪ Goodwill ▪ VIP, Loyalty Program, Customer ▪ Promotion Event ▪ Service downgrade/fault compensation ▪ Customer complain

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
INVOICE ADJUSTMENT TYPE	Lookup	Lookup for available adjustment types that may be applied to customer invoices. For example: 1. Direct Total Amount Adjustment 2. Discount Total Bill Amount Adjustment 3. Monthly Fee Adjustment 4. Recharge Fee Adjustment (Prepaid) 5. Activation Fee Adjustment 6. Free-Unit Amount Adjustment 7. Item Charge Adjustment 8. Loyalty Points Adjustment 9. Others
INVOICE AGING DAY DRVD	Derived	Daily Summary of aging of invoices (from the time they are open until they closed) for reporting purposes.
INVOICE DELIVERY FORMAT	Reference	The format specification, including header, font, and so on, of each invoice delivered to the customer.
INVOICE DELIVERY TYPE	Lookup	Lookup for available delivery types of INVOICE to customer. For example: ■ Printed letter ■ Email ■ Duplicate printed letter on request
INVOICE DISCOUNT	Base	Discount applied to INVOICE.
INVOICE DISCOUNT REASON	Lookup	Lookup for available discount reasons.
INVOICE DISCOUNT TYPE	Lookup	Lookup for available discount types that may be applied to customer invoice.
INVOICE DRVD	Derived	Statistics on Invoices for further aggregation. Postpaid customers are billed/invoiced for the usage of services on monthly basis, that is, bill for every subscriber based on his package, category, and usage is calculated, printed and sent to the customer account address for payment.
INVOICE GENERATION PROCESS	Base	Process specific for the generation of the Invoices (Billing process) as a subtype of PROCESS EVENT.
INVOICE ITEM	Base	Any line that appears on the INVOICE which is specific to the product components a customer has. The invoice item is not necessarily associated with a monetary charge or a credit (but invoice item usually does have an associated monetary charge or credit). The invoice item is usually a billable item to a given account, onto which usage or other events are charged. The unbillable items that could be part of the invoice item are "Loyalty Points", "Free Unit Amount/Rollover", and so on. For example: ■ Wireless Call ■ Ringtone Downloading ■ Monthly Fixed Rate
INVOICE ITEM DETAIL	Base	Additional details regarding INVOICE ITEM including Product Usage Level.

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
INVOICE ITEM DETAIL TYPE	Lookup	Lookup for invoice item detail types (item detail is the description of each column of a given item in a bill). The invoice item detail type may be classified in a mobile line. For example: ▪ Call Date ▪ Duration ▪ Dialed Digits ▪ Units ▪ Direction ▪ Zone ▪ Charge Net ▪ VAT ▪ Total Charge
INVOICE ITEM RELATIONSHIP	Base	Define the relationship between INVOICE ITEMs.
INVOICE ITEM TYPE	Lookup	Lookup for invoice item types. For example: ▪ 1 = Long Distance Minutes of Usage ▪ 2 = Access Charge ▪ 3 = Monthly Fee ▪ 4 = Equipment Charge ▪ 5 = Roaming Minutes of Usage ▪ 6 = Equipment Rental ▪ 7 = Installation Charge ▪ 8 = Adjustment or Discount ▪ 9 = Call Record Detail
INVOICE MONTH AGGR	Aggregate	Monthly aggregation of all invoices to postpaid customers at customer type level.
INVOICE PAYMENT ASSIGNMENT	Base	Matches the payment to an INVOICE.
INVOICE PAYMENT TERM	Base	Payment terms of each INVOICE. For example: ▪ Payment days
INVOICE PAYMENT TERM TYPE	Lookup	Lookup for available types of payment terms.
INVOICE PROCESS ASSIGNMENT	Reference	Describes the successful processes related to invoice generation, issuing and dispatching.
INVOICE STATUS	Lookup	Lookup for possible status of the invoices.
INVOICE STATUS HISTORY	Base	Status history for an INVOICE, for example, the invoice may experience a status change from open to closed, or from open to extended.
INVOICE STATUS TYPE	Lookup	Type of INVOICE status. For example: ▪ Open (not paid) ▪ Closed (paid) ▪ Extended (due date is changed)
INVOICE TAX ITEM	Base	The Tax item applied to the INVOICE.
INVOICE TYPE	Lookup	Lookup for type of INVOICE according to invoice generation process. For example: ▪ Summary Invoice for hierarchical account ▪ Standard Invoice ▪ Trial Billing Invoice
INVOLVEMENT ROLE	Lookup	Information about the role in which a resource, a service, or a product is involved.

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
IP ADDRESS	Reference	Represents an IP address. The IP Address can be either in v4 or v6 form, and can be formatted as dotted decimal or CIDR. One or more host aliases can also be supplied.
IP ADDRESS POOL	Reference	Subtype of ACCESS METHOD POOL, which lists all IP addresses available to customers.
IP SUBNET	Reference	A portion of a network that shares a common address component. On TCP/IP networks, subnets are defined as all devices whose IP addresses have the same prefix. For example, all devices with IP addresses that start with 100.100.100 would be part of the same subnet.
IPV4 ADDRESS	Reference	Refines the generic IP ADDRESS to add formatting capabilities that are specific to IPv4.
ISP	Reference	Internet Service Provider (ISP).
ISP BUSINESS	Reference	The business that the ISP may provide. For example: ▪ Company | Services ▪ A $ 45.00 Broadband DSL Access 20Mbps Down, 896Kps Up ▪ A $ 25.00 Broadband DSL Access 7Mbps, 896Kps Up ▪ A $ 19.99 Broadband DSL Access 1.5Mbps, 896Kps Up ▪ A $ x.xx Wireless Broadband or cable modem Access This only covers ISP specific business (not Application Provider business).
ISP BUSINESS ASSIGNMENT	Reference	Relates an ISP to the Communications Service Provider through a "business" relationship. This entity assigns the definition of the relationship, in entity ISP BUSINESS, with the corresponding ISP.
ISP BUSINESS TYPE	Lookup	Lookup for high level of ISP business type. For example, Cooper Line Internet Connection (may further divided as DSL, ISDN), Colocation, DNS Name, and so on. For example: ▪ Virtual private server ▪ Dedicated hosting ▪ Colocation center ▪ Web hosting ▪ Free hosting ▪ Shared hosting ▪ Clustered hosting ▪ Reseller hosting ▪ Application-specific ▪ Blog hosting ▪ Image hosting ▪ Video hosting ▪ Wiki farms ▪ File hosting ▪ Remote backup service ▪ Game server hosting ▪ DNS hosting ▪ E-mail hosting
ISP TYPE	Lookup	Lookup for types of ISPs.
ISP USAGE EVENT	Base	Records traffic details of each session the user conducts with the Internet Service Provider ISP. The entity documents the connect and disconnect date and time and the number of local and international bytes downloaded, and uploaded. There will typically be multiple rows for each long running session. The entity will be implementation dependent, but normally there will be a record generated each hour, all records for the one session will have the same connect and disconnect date times, but the event start/end datetimes will identify the period that the usage (bytes) covers.

Table 2–40 (Cont.) G to J Entity Descriptions

Entity Name	Type	Description
ISP USER	Reference	Identifies the user names associated with the Internet Service Provider (ISP) subscription.
ITEM CLASS	Reference	Classification of Items (as resource).
ITEM CLUSTER	Reference	Grouping of items based on common characteristics.
ITEM COMPANY	Reference	Top level of the item merchandise hierarchy.
ITEM DEPARTMENT	Reference	Fourth level in item hierarchy below ITEM GROUP. Item department consists of one or more item classes.
ITEM DIVISION	Reference	Second level in item hierarchy below ITEM COMPANY. Item Division consists of one or more ITEM GROUPs.
ITEM GROUP	Reference	Third level in item hierarchy, below ITEM DIVISION. Item Group consists of one or more ITEM DEPARTMENTs
ITEM LOOKUP METHOD	Lookup	Method by which the SKU ITEM selling price was retrieved and entered into the Point of Sale system during a RETAIL SALES RETURN LINE ITEM transaction.
ITEM SUBCLASS	Reference	The sixth level in item hierarchy, below ITEM CLASS. Item Subclass consists of one or more items.
ITEM TYPE	Lookup	Type of Item. It is available for Retail type of grouping (such as Hardware, Accessories, and so on) or any other grouping the Communications Provider prefers.
ITEM SPECIFICATION	Reference	Details describing the item or PRODUCT SPECIFICATION.
IVR INTERACTION NAVIGATION HISTORY	Base	Specifies the IVR interaction navigation history.
IVR MENU CONTENT	Reference	Detailed Content description of the IVR Menu with the different choices, and paths (scripts) available. It should be use as part of a complete IVR navigation description.
IVR MENU ITEM	Lookup	The IVR MENU ITEM, which can be used to construct the whole IVR navigation system. Each IVR MENU ITEM represents a group or a specific business function.
JOB	Reference	The occupation of the customer, which is the principal activity the customer performs to earn money.
JOB ROLE	Reference	Job Roles defined in the company that may be assigned to employees. For example: ▪ Sales representative ▪ Support ▪ Product manager ▪ Customer representative ▪ Call center agent
JOURNAL ENTRY LINE CUSTOMER ORDER ITEM ASSIGNMENT	Base	Cross-Reference from GL SUBLEDGER JOURNAL ENTRY LINE to CUSTOMER ORDER LINE ITEM.
JOURNAL ENTRY LINE INVOICE ITEM ASSIGNMENT	Base	Cross-Reference from GL SUBLEDGER JOURNAL ENTRY LINE to INVOICE ITEM.
JURISDICTION	Reference	List of areas over which authority extends in relationship with the SKU ITEM Service Provider in a way or another.

Table 2–41 K to N Entity Descriptions

Entity Name	Type	Description
KEY PERFORMANCE INDICATOR SLS PARM	Reference	A measure of a specific aspect of the performance of a SERVICE (network or non-network) or a group of SERVICEs of the same type.
KEY QUALITY INDICATOR SLS PARM	Reference	A measure of a specific aspect of the performance of a product, subscription, or a service. A Key Quality Indicator (KQI) draws data to compute the measure from several sources, including KPIs.
LAN	Reference	A Local Area Network (LAN) is a computer network covering a specific local area, such as a home, office, or small group of buildings. The LAN provides communication between computers and devices.
LAN PROTOCOL	Reference	LAN Protocols operate at the lowest two levels of the OSI model, that is, physical and data link, and are used to define communications over different types of local area media.
LAND PARCEL ADDRESS	Reference	Subtype of ADDRESS LOCATION.
LAND USE TYPE	Lookup	List of possible operations on land, carried out by humans, with the intention to obtain products and benefits through using land resources.
LANGUAGE	Lookup	Languages spoken or written within the company or in interactions with CUSTOMERs.
LANGUAGE DIALECT	Reference	A special type of speaking or written language dialect.
LAYER NETWORK	Reference	A Layer Network is defined by the complete set of Access Groups of the same type that may be associated for transferring information. The information transferred is characteristic of the layer network and is termed characteristic information. The associations of the trail terminations, that form a trail, in a layer network may be made and broken by a layer network management process thus changing its connectivity. A separate, logically distinct layer network exists for each trail termination type. The topology of a layer network is described by access groups, subnetworks, and the links between them.
LEGAL PROCESS STATUS TYPE	Lookup	Lookup for various states which a legal process could be in, as part of a party interaction (usually after an inability to find an agreement to pay debts).
LETTER TYPE	Lookup	Lookup for available types of letters that may be sent to CUSTOMERs. For example: ■ Direct marketing ■ Legal letter ■ Contract confirmation letter (Welcome)
LIFECYCLE TYPE	Lookup	Type of Lifecycle, following the general marketing product lifecycle categorization. It can also be used as a further category to flag the market lifecycle period in which a specific product belong finds itself on the market.
LOCAL ADDRESS LOCATION	Reference	The local place within a given geographical address location to locate a specific object, such as a RESOURCE.
LOGICAL CAPACITY	Reference	This entity represents the minimum and maximum requirements, limits, or other variable features of different types of Managed Entities.
LOGICAL DEVICE	Reference	This entity represents logical concepts and services that can be managed that are associated with the device as a whole. Logical Device represents a convenient aggregation point for combining different aspects of a device (For example, software contained in the device, protocols that the devices runs, the set of services that it offers, and so forth). The Logical Device also enables the device itself to have a single logical manifestation. Conceptually, this represents the "brains" of the Device. For example, the Logical Device represents the set of entities required for a ROUTER to know how to route packets.
LOGICAL DEVICE ATOMIC	Reference	Entity for representing logical concepts and services that can be managed which are associated with the device as a whole. Represents a convenient aggregation point for combining different aspects of a device (For example, software contained in the device, protocols that the devices runs, the set of services that it offers, and so forth). The Logical Device Atomic also enables the device itself to have a single logical manifestation. Represents all logical devices that are atomic in nature (For example, not made up of multiple distinct logical devices that can be separately managed).

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
LOGICAL DEVICE COMPOSITE	Reference	Entity for representing logical concepts and services that can be managed which are associated with the device as a whole. Represents a convenient aggregation point for combining different aspects of a device (For example, software contained in the device, protocols that the devices runs, the set of services that it offers, and so forth). The Logical Device Composite also enables the device itself to have a single logical manifestation. Represents all logical devices that are composite in nature (For example, made up of multiple distinct logical devices that can be separately managed). The composite pattern enables Logical Device Composite objects to be made up of LOGICAL DEVICE objects (that is, either LOGICAL DEVICE ATOMIC and/or Logical Device Composite objects).
LOGICAL DEVICE OS ASSIGNMENT	Reference	This is an association class, and defines the semantics of the Logical Device Uses OS association. This is a complex class, and consequently only a few simple attributes are shown in this viewpoint in order for the reader to get a flavor of the types of parameters defined in this class.
LOGICAL DEVICE ROLE	Reference	Defines required logical features to implement the different roles played by different LOGICAL DEVICEs that are used in a PRODUCT SPECIFICATION or SERVICE.
LOGICAL DEVICE ROLE SPEC	Reference	Entity for all Logical Device Role Specifications. The Logical Device Role Spec entity enables relationships to be defined between it and other classes in the core model. This helps prevent relationship explosion. The Logical Device Role Spec defines the invariant attributes, methods, relationships, and constraints of various types of roles associated with LOGICAL DEVICEs in the model.
LOGICAL DEVICE SPECIFICATION	Reference	Grouping of Common and invariant characteristics and behavior associated with a type of LOGICAL DEVICE.
LOGICAL INTERFACE	Reference	An abstract entity that serves as the superclass for all virtual interfaces. Logical interfaces are also called virtual interfaces. This is because a logical interface has no hardware associated with it, and a logical interface is not physically connected to a network. A logical interface serves as a convenient aggregation point for running different relationships that affect its subclasses, thereby avoiding having to instantiate multiple relationships that are essentially the same.
LOGICAL RESOURCE	Reference	This entity describes different logical aspects of devices (For example, DEVICE INTERFACEs) that constitute a PRODUCT SPECIFICATION. The Logical Resource has two main purposes. 1. To collect common attributes and relationships for all logical entities. 2. To provide a convenient, single point where relationships with other managed objects can be defined.
LOGICAL RESOURCE PHYSICAL SUPPORT	Reference	Defines how the LOGICAL RESOURCE supports certain PHYSICAL RESOURCEs.
LOGICAL RESOURCE ROLE	Reference	This entity defines the concept of various types of roles that can be associated with LOGICAL RESOURCEs.
LOGICAL RESOURCE ROLE ASSIGNMENT	Reference	Implements the semantics of the Roles Describe Logical Resource aggregation.
LOGICAL RESOURCE ROLE SPECIFICATION	Reference	Entity for all LOGICAL RESOURCE ROLE specification subclasses. The Logical Resource Role Spec enables relationships to be defined between it and other classes. This helps prevent relationship explosion. The Logical Resource Role Spec defines the invariant attributes, methods, relationships, and constraints of various types of roles associated with LOGICAL RESOURCEs.
LOGICAL RESOURCE SPEC ATOMIC	Reference	This entity describes specific attributes, behavior, relationships, constraints, and semantics for building LOGICAL RESOURCE objects. The purpose of this entity is to track specifications of LOGICAL RESOURCEs separately from other types of Resource Specifications. This entity inherits the Modifies Resource Spec aggregation, and therefore can be used with the corresponding LOGICAL RESOURCE entity. The difference between this entity and the Logical Resource Type Composite entity is that this entity represents standalone specifications of LOGICAL RESOURCE objects. The Logical Resource Type Composite entity represents a hierarchy of specifications of LOGICAL RESOURCE objects.

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
LOGICAL RESOURCE SPEC COMPOSITE	Reference	This entity describes specific attributes, behavior, relationships, constraints, and semantics for building LOGICAL RESOURCE objects. The purpose of this entity is to track specifications of LOGICAL RESOURCE separately from other types of Resource Specifications. This entity inherits the Modifies Resource Spec aggregation, and therefore can be used with the corresponding LOGICAL RESOURCE entity. The difference between this entity and the Logical Resource Type Atomic entity is that this entity represents a hierarchy of specifications for LOGICAL RESOURCEs. The Logical Resource Type Atomic entity represents a single standalone specification of a LOGICAL RESOURCE.
LOGICAL RESOURCE SPEC PHYSICAL SUPPORT	Reference	Defines how the LOGICAL RESOURCE support certain PHYSICAL RESOURCEs.
LOGICAL RESOURCE SPEC VERSION	Reference	Tracks changes in individual RESOURCE SPECIFICATION as it evolves with time.
LOGICAL RESOURCE SPECIFICATION	Reference	This entity defines the invariant characteristics and behavior (attributes, methods, constraints, and relationships) of a LOGICAL RESOURCE.
LOGICAL RESOURCE TYPE VERSION	Reference	The purpose of this entity is to track Logical Resource Type specifications separately from other types of Resource Specifications. This entity inherits the modifiesResourceSpec aggregation, and therefore can be used with the corresponding Logical Resource Type specification entity.
LOOKUP	Lookup	Abstract ENTITY for all lookup entities.
LOOPBACK INTERFACE	Reference	A Loopback Interface is a virtual interface. Traffic sent to the Loopback Interface is forwarded to the Device itself for further processing. Subtype of DEVICE INTERFACE.
LOYALTY MEMBER POINT DAY DRVD	Derived	Similar to ACCOUNT BALANCE for Loyalty Points, on a daily basis.
LOYALTY MEMBERSHIP ENROLL	Base	Describes the Loyalty membership enrollment event.
LOYALTY PROGRAM	Reference	Loyalty programs available to which customers may be members of.
LOYALTY PROGRAM MO AGGR	Aggregate	Monthly summary of LOYALTY PROGRAM statistics by PRODUCT SPECIFICATION and SALES CHANNEL.
LOYALTY TIER	Reference	Describes the LOYALTY PROGRAM level of membership or tier (typically bronze, silver, gold, platinum) associated with a given loyalty program.
LOYALTY TIER CHANGE HISTORY	Base	Tracks all migration from one loyalty tier to the other of Membership Accounts with the reason.
LOYALTY TIER CLASS	Reference	Grouping of LOYALTY TIER into "class", as required by the marketing needs.
LR STATUS	Lookup	Logical Resource Status as defined by TMF SID. The default values are: ■ 0: Unknown ■ 1: OK ■ 2: Initializing ■ 3: Starting ■ 4: Paused ■ 5: Stopping ■ 6: Stopped ■ 7: Degraded ■ 8: Stressed ■ 9: Predicted Failure ■ 10: Error - General ■ 11: Error - Non Recoverable ■ 12: Not Installed or Not Present ■ 13: In Maintenance ■ 14: Unable To Contact ■ 15: Lost Communications
MAILBOX	Reference	Mailbox allocated to a CUSTOMER.

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
MANAGE ACTION TYPE	Lookup	Lookup for type of management action that can be performed on a PRODUCT OFFERING. For example: ▪ Marketing Manager ▪ Creation ▪ Marketing Research
MANAGED ENTITY	Reference	This is an abstract entity that represents entities in a managed environment that have the following semantics in common: ▪ An ENTITY owns or is otherwise responsible for them. ▪ Management of the ENTITY is critical for providing a service and maintaining the environment. ▪ The ENTITY is important from a management point-of-view.
MANAGED HARDWARE	Reference	This entity adds additional semantics to the Hardware base entity. These semantics provide management information on the hardware. For example, attributes defined by this entity can provide the administrative and operational state of the entity, and tell whether it has any alarms.
MANAGED TRANSMISSION ENTITY	Reference	This entity describes different types of logical entities that are or help form connections that transmit and/or receive information. This represents a superclass to various ITU specs (For example, G.805 and M.3100) and the IETF concepts, such as those found in various RFCs, so that it can unite ITU and IETF concepts.
MANAGEMENT DOMAIN	Reference	Represents a special grouping of ENTITYs that has two important properties. First, it is used to partition managed objects into a meaningful logical grouping. Second, it provides a means to show how management functions are distributed and scaled.
MANAGEMENT INFORMATION	Reference	Abstract entity represents entities that represent management information obtained in a managed environment. Specifically, in the process of managing an entity, information of various forms are created.
MANAGEMENT PROTOCOL	Reference	A Management Protocol is an abstract superclass for protocols that are dedicated to exchanging management information between network devices. This type of protocol is an application layer protocol, and is used for configuring, monitoring, and gathering information about devices.
MARITAL STATUS	Lookup	Lookup for marital status that may be assigned to an individual.
MARKER POOL	Reference	Represents a set of markings that can be used by one or more MARKER SERVICEs. For example, different marker pools could be defined for different CUSTOMERs as well as for different technologies.
MARKER SERVICE	Reference	Describes the Marker Service used to mark packets in a flow so that different devices in the network know how to treat the traffic that these packets belong to.
MARKER SERVICE MARKER POOL ASSIGNMENT	Reference	Association of a MARKER POOL to a MARKER SERVICE.
MARKER TYPE	Lookup	List of the most common types of MARKER SERVICE, which sets existing bits in specific fields of a packet or frame: 0: ToS 1: DSCP 2: 802-priority field 3: 802-vlan id 4: ISL class of service field (3 bits) 5: Class of Service (other field) 6: MPLS Label 7: VC ID 8: VC Bundle (set of VC IDs)
MARKET AREA	Reference	A geographic area or region or other connotation for which demographic data are available.
MARKET AREA LEVEL	Reference	Hierarchical levels of market area.

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
MARKET SEGMENT	Reference	A grouping of Parties, Geographic Areas, Sales Channels, and so forth. MARKET SEGMENTs are the target of Marketing Campaigns, PRODUCT OFFERING, Product Promotions, Product Placements, and Product Programs from both internal and external, COMPETITORs, and other Providers, perspective.
MARKET SEGMENT CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a MARKET SEGMENT. The characteristic can be take on a discrete value, such as sex, can take on a range of values, (for example, household income of $50,000 - $100,000), or can be derived from a formula (for example, number of households = number of customer party roles).
MARKET SEGMENT CHARACTERISTIC VALUE	Reference	A number or text that can be assigned to a MARKET SEGMENT CHARACTERISTIC.
MARKET SEGMENT INCLUSION	Reference	The inclusion relationship between two MARKET SEGMENTs.
MARKET SHARE AGGR	Aggregate	Defines market information (in particular of competitors), including Sales Revenue by Month, Address, and Business Unit.
MARKET SHARE DRVD	Derived	Defines the market information, including Sales Revenue by Month, Address, and Business Unit.
MARKET STATISTICS	Reference	A categorization of performance measures by MARKET SEGMENT.
MARKET STATISTIC INCLUSION	Reference	Relationship between two market statistics.
MEASUREMENT JOB	Reference	Contains the descriptions of the job for scheduling PM related activities: the collection of performance indicators or the production of performance indicators.
MEDIA INTERFACE	Reference	This entity serves as the superclass for all virtual interfaces. Logical Interfaces are also called virtual interfaces. This is because a Logical Interface has no hardware associated with it, and it is not physically connected to a network. The Media Interface serves as a convenient aggregation point for running different relationships that affect its subclasses, thereby avoiding having to instantiate multiple relationships that are essentially the same.
MEDIA INTERFACE LOGICAL INTERFACE ASSIGNMENT	Reference	Association of a logical interface with a media interface (USB, DVD Player...).
MEDIA INTERFACE TYPE	Lookup	Type of media interface available (USB, SD Card Reader, DVD Player,...).
MEDIA OBJECT	Reference	Any form of media in which a CAMPAIGN MESSAGE may appear. For example: ■ Newspaper page ■ Television time slot
MEDIA OBJECT ASSIGNMENT	Reference	Relation of one MEDIA OBJECT to another MEDIA OBJECT.
MEDIA OBJECT COST	Base	Costs incurred in the usage of a MEDIA OBJECT. Subtype of the COST that collects all costs related to a specific media (Newspaper, Television spots, Fliers, and so on).
MEDIA OBJECT TYPE	Lookup	Lookup for available types of MEDIA OBJECTs. For example: ■ Newspaper ■ Television
MEDIATED CALL EVENT	Base	The mediated call event with original device information, dropped call, and missed call information, which is normally ignored by rating engine. The call event are collected before the calls are rated by rating engine.
MEDIATION STATUS CATEGORY	Lookup	Lookup for category of mediation status, such as successfully mediated or failed.
MEDIATION STATUS REASON	Lookup	Lookup for reasons why the UDR event is at certain mediation status. For example: ■ Corrupted File ■ Missing record
MEDIATION STATUS TYPE	Lookup	Lookup of the mediation status of a given raw UDR event. For example: ■ <Rejected> ■ <Successful>

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
MEMBERSHIP ACCOUNT	Reference	Loyalty Account or ACCOUNT specifically defined for and associated to LOYALTY PROGRAMs. The same customer may have multiple membership accounts.
MEMBERSHIP ACCOUNT BALANCE HISTORY	Base	Stores the account balance history for MEMBERSHIP ACCOUNT (Loyalty) as counterpart of ACCOUNT BALANCE.
METER PROFILE	Reference	Traffic profile that the METER SERVICE can use to compare traffic against. The Meter Profile defines what levels of traffic pass through the METER SERVICE: Levels that are unaltered Levels that get delayed Levels that get dropped Levels that get further analyzed
METER SERVICE	Reference	A meter is a basic traffic conditioning building block. A meter determines the level of conformance of each packet or flow with respect to a pre-established traffic profile by monitoring a metric of a packet or flow (for example its arrival time). Subtype of TRAFFIC CONDITIONING SERVICE.
METER SERVICE PROFILE ASSIGNMENT	Reference	Association of a METER SERVICE with a specific Meter or traffic Profile against which the measures (of the packet) are done.
MINING CHURN TYPE	Lookup	Specifies mining churn types.
MINING LIFE TIME SURVIVAL VALUE BAND	Lookup	Specifies customer life time survival value band details.
MINING LIFE TIME VALUE BAND	Lookup	Specifies customer life time value band details; band of customer life time value that is predicted from the data mining model. For example, 0~100 USD, 100~200 USD, and so on.
MINING SENTIMENT CATEGORY	Lookup	Specifies details of mining sentiment category.
MINUTE	Reference	Defines minutes as part of time.
MME	Reference	The MOBILITY MANAGEMENT ENTITY (MME) is a key component in LTE network, which authenticates users, and so on. Subtype of PHYSICAL DEVICE.
MMS EVENT	Base	Subtype of UDR EVENT, which collects all information of calls of type Multimedia Messaging Service (MMS).
MMS SERVICE	Base	Specifies the information relative to all the MMS services that customer is using. Subtype of CUSTOMER FACING SERVICE.
MOBILE SWITCHING CENTER	Reference	The Mobile Switching Center (MSC) is a sophisticated telephone exchange which provides circuit-switched calling, mobility management, and GSM services to the mobile phones roaming within the area that it serves. This includes voice, data and fax services, and SMS and call divert services.
MODEL TYPE	Lookup	Lookup for the model types of items. There may be different "types" for a given model. For example, for a handset a model may allow "Bluetooth" or not.
MONITORED CLASS CRITERIA	Reference	This entity collects criteria for specifying what monitored objects are referenced by a query, specifying a monitored object class in conjunction with a filter.
MONITORED INSTANCES CRITERIA	Reference	This entity collects criteria for specifying what monitored objects are referenced by a query, specifying a list of monitored object instances.
MONITORED OBJECTS CRITERIA	Reference	The entity collects the criteria for specifying what monitored objects are referenced by a query, both scheduled or ad-hoc.
MONTH TODATE TRANSFORMATION	Reference	Defines related calendar elements for performing to-date time transformations.
MONTH TRANSFORMATION	Reference	Transformations with respect to a month. For example: ▪ This month last year ▪ This year last month
MSC SERVER	Reference	Subtype of PHYSICAL DEVICE.
MSC TRAFFIC DAY DRVD	Derived	Parameters, configurations, and run time statistics related to the MSC (Mobile Switch Center) functioning and performance.

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
MSC TRAFFIC MONTH AGGR	Aggregate	Monthly aggregation of parameters, configurations, and run time statistics related to the MSC (Mobile Switch Center) functioning and performance.
MUSIC DOWNLOAD	Reference	Subtype of VALUE ADDED SERVICE and PRODUCT SPECIFICATION, which contains the information relative to the music downloading service.
NAICS CLASSIFICATION	Reference	Specifies classifications in the North American Classification System (NAICS).
NAICS INDUSTRY	Reference	Lowest level classification for Industry in the North American Industry Classification System (NAICS).
NAICS INDUSTRY GROUP	Reference	Lookup for Classification Groups in the North American Industry Classification System (NAICS).
NAICS INDUSTRY SECTOR	Reference	Lookup for Industry Sectors in the North American Industry Classification System (NAICS).
NAICS INDUSTRY SUBSECTOR	Reference	Lookup for Industry Sub-sectors in the North American Industry Classification System (NAICS).
NATIONALITY	Lookup	Lookup for available nationalities.
NEGOTIATED SERVICE LEVEL SPEC	Reference	The negotiated service level spec, compared to predefined SLA spec.
NETWORK	Reference	Names and Service Providers for relevant Networks. The full details of a service provider are found in the PARTY and Organizations entities. A Network is a managed object that represents an aggregation of interconnected telecommunications and management objects capable of exchanging information. The reason that a Network is subclassed from Resource Collection is that it is important that a Network represents physical and logical characteristics and behavior of this collection of telecommunications and management objects. A Network has the additional semantics of having one or more common characteristics and/or behavior. For example, a network may be owned by a single customer or provider, or be associated with the delivery of a specific set of services. A network may be nested within another (larger) network, thereby forming a containment relationship. An example of a network that is contained in another network is a transmission sub-network. The Network is owned by a single Administration and can only perform transmission functions.
NETWORK ADDRESS	Reference	Represents the generic concept of a network address. The Network Address subclasses define different types of addresses of different technologies, such as an IP ADDRESS or an IPXAddress. The use of a Network Address lies in its ability to serve as a convenient point for sourcing and terminating relationships. This eliminates undue duplication of relationships that interact with the subclasses of NETWORK ADDRESS.
NETWORK ADDRESS INTERFACE BINDING	Reference	Defines the semantics of how this NETWORK ADDRESS is contained in this particular DEVICE INTERFACE.
NETWORK ADDRESS TYPE	Lookup	Lookup for the type of network addresses, that is, the invariant characteristics that define a NETWORK ADDRESS. For example, IPv4, IPv6, IPX, and so on.
NETWORK ASSIGNMENT	Reference	Defines the relationship between NETWORKs. For example: ■ One network relies on another network to function. ■ One network belongs to another network.
NETWORK ASSIGNMENT TYPE	Lookup	Lookup for type of network relationship. For example: ■ Composition (one network include another one) ■ RELY (one network relies on another one)
NETWORK ATOMIC	Reference	Represents a standalone Network. Network Atomics may be combined into larger Networks by aggregating them into an appropriate Network Composite object.
NETWORK AVAILABILITY DAY DRVD	Derived	Statistics of network availability measures and all outages that happened to the operator's network.
NETWORK AVAILABILITY MONTH AGGR	Aggregate	Monthly aggregation of network availability statistics and all outages that happened to the operator's network.
NETWORK CAPACITY	Reference	The network capacity of a given network route, trail, or connections.

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
NETWORK COMPOSITE	Reference	Represents an aggregation of Network Atomic and possibly Network Composite objects. Each Network Atomic object represents a standalone Network; these can be combined to build larger Networks by choosing the appropriate type of Network Composite object to aggregate Network Atomic objects. A Network Composite object can also aggregate Network Composite objects.
NETWORK DOMAIN	Reference	A Network Domain represents a set of Managed Physical Entities that share a common set of administrative and operational characteristics. Primary among these is the use of a common naming methodology. A Network Domain partitions Managed Entity instances into logical groupings. For example, operational and/or administrative groups, that are controlled by one or more common managers. Network Domains provide one way to administer and control the operational characteristics of a set of Managed Entities.
NETWORK DOMAIN ASSIGNMENT	Reference	Assigns RESOURCE into NETWORK DOMAIN.
NETWORK FORWARDING SERVICE	Reference	Subtype of RESOURCE FACING SERVICE
NETWORK ROUTE	Reference	Defines a series of locations a network route may pass.
NETWORK ROUTE POINT	Reference	The points a NETWORK ROUTE may pass through.
NETWORK ROUTE POINT ASSIGNMENT	Reference	Assignment of NETWORK ROUTE POINTs to their NETWORK ROUTE. Multiple NETWORK ROUTEs may share the same NETWORK ROUTE POINT.
NETWORK ROUTE SECTION	Reference	Continuous Section of NETWORK ROUTE,that can be easily and unambiguously defined (for example a linear section from a repeater to the next).
NETWORK SERVICE COVERAGE ASSIGNMENT	Reference	Defines the relationship between NETWORK TOUCHPOINT and SERVICE COVERAGE AREA.
NETWORK SITE	Reference	Specifies a place where RESOURCEs are located or installed.
NETWORK TOUCHPOINT	Reference	Point of service site for a subscriber to access a CELL SITE or FIXED LINE PORT. The site is a geographical point instead of area, therefore, it belongs to some geographical entity. For example, a city or a town rather than a type of the GEOGRAPHY ENTITY. For example: ▪ BTS in GSM network ▪ Customer installation site in ADSL broadband
NETWORK TOUCHPOINT CLASS	Lookup	Lookup for available classes of NETWORK TOUCHPOINT. For example: ▪ Public ▪ Private
NETWORK TOUCHPOINT MONTH AGGR	Aggregate	Monthly summary of NETWORK TOUCHPOINTs by CUSTOMER, NETWORK, Address, and so on.
NETWORK TOUCHPOINT DRVD	Derived	Monthly summary of NETWORK TOUCHPOINTs by NETWORK, County, and so on.
NETWORK TOUCHPOINT STATUS	Lookup	Lookup for Available Status codes and descriptions of NETWORK TOUCHPOINT.
NETWORK TOUCHPOINT TYPE	Lookup	Lookup for the type of NETWORK TOUCHPOINT. For example: ▪ Cell Site (Wireless) ▪ International Switch (roaming partners) ▪ Ethernet Socket at Customer site (last mile included - wireline/broadband ▪ Switch (wireline - exclusive last mile - wireline/broadband)
NETWORK TYPE	Lookup	Lookup for the types of NETWORK. Will include: ▪ PSTN ▪ GSM ▪ CDMA

Table 2–41 (Cont.) K to N Entity Descriptions

Entity Name	Type	Description
NOTIFICATION TYPE	Lookup	Lookup for types of notification a subscriber may receive when a call is received by or diverted to a UMS or VMS mailbox. For example: ■ SMS ■ Internet mail The UMS Notification Type dimension helps to organize the notifications data by notification type, along with other dimensions.
NP MOBILE MSISDN	Reference	The mobile MSISDN number of ported number.
NP REQUEST HEADER	Base	The Number Porting (NP) Request submitted by a customer (Porting In) or a recipient operator (Porting Out).
NP REQUEST LINE ITEM	Base	Request Line Item within a Number Porting (NP) request.
NP REQUEST LINE ITEM STATE HISTORY	Base	State history for Number Porting (NP) request line items.
NP REQUEST LINE ITEM STATE TYPE	Lookup	Lookup for type of Number Porting (NP) line item state. For example: ■ Passed ■ Pending
NP REQUEST STATE HISTORY	Base	State history for the Number Porting (NP) request.
NP REQUEST STATE REASON	Lookup	Lists the possible reasons why a Number Portability Request is in a specific state. Such as 'Fraud','Lack of Document'.
NP REQUEST STATE TYPE	Lookup	Lookup for type of state for Number Porting (NP) request. For example: ■ Pre-application ■ Application ■ Document check
NP REQUEST TYPE	Lookup	Lookup for type of Number Porting (NP) Request. For example: ■ Porting In ■ Porting Out
NP STEP	Lookup	Step involved in the Number Porting (NP) request. For example: ■ Application ■ Document check ■ Notify NPAC
NUMBER AREA	Reference	Defines the codes associated to a given area; these codes are typically used for calls to a fixed line number. For example: ■ 1 for Paris (in France) ■ 89 for Munich (in Germany) A number area could also be associated to other operators, and not to a geographical area. For example, 9 in France.
NUMBER COUNTRY	Reference	Country number. For example: ■ US-01 ■ China-86
NUMBER NETWORK TYPE	Lookup	Lookup for available classifications for the network technology, used in relation to subscriptions. For example: ■ in MICA-GCM: CDMA ■ in Flexcab - NTWK, NNSA, WRBL, and so on
NUMBER PORT DAY DRVD	Derived	Aggregation of daily Porting Requests (in/out).
NUMBER PORT MONTH AGGR	Aggregate	Monthly summary of Porting Requests (in/out).

Table 2–42 O to R Entity Descriptions

Entity Name	Type	Description
ON OFF NET TYPE	Lookup	Lookup of call classifications: ■ On net ■ Off net
OPERATING SYSTEM	Reference	An Operating System is a concrete entity that represents either software and/or firmware that runs the LOGICAL RESOURCE. This entity implements and manages the Resources, tasks, file systems, security, and data available on the LOGICAL RESOURCE. An Operating System is distinct from software applications that are run on the Resource. All applications and software must communicate with the Operating System for all operations that they need.
OPERATOR GROUP	Lookup	Classification group for operators. For example, the group can be classified as: ■ Global Direct Competing ■ Local Competitor ■ Allied by Stock Share
OPERATOR TYPE	Lookup	Lookup for operator type to classify operators. For example: ■ International ■ Local International operators normally have multiple subsidiaries whose relationship is modeled in the party relationship.
ORACLE GEOMETRY	Reference	Provides geometry information.
ORDER LINE ITEM STATE	Reference	Lookup for the status that a given order line item, in a command, can be assigned. For example: ■ Pending ■ Waiting for Customer feedback ■ Closed ■ Started ■ Error
ORDER LINE ITEM STATE TYPE	Lookup	Lookup for the status that a given order line item can be at. For example: “Pending” “Waiting for Customer feedback” “Closed” “Started” “Error”
ORDER STATE	Lookup	Lookup for the type of Order State. For example: ■ Open / Processing ■ Pending / Waiting for Customer Feedback ■ Pending / Waiting for Internal Feedback ■ Pending / Waiting for Third Party Feedback ■ Error ■ Closed ■ Cancelled
ORDER STATE TYPE	Lookup	Type of ORDER STATE, used for grouping or summary purpose.
ORDER TYPE	Lookup	Lookup for type of CUSTOMER ORDER. For example: ■ Order for Pickup ■ Order for Delivery ■ Order for Activation
ORGANIZATION	Reference	A sub-type of PARTY that is related to the Communications Service Provider, usually from a Retail perspective. It is not part of the Communications Service Provider. It could have a role as customer upon which it the information should be repeated in CUSTOMER ORGANIZATION.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
ORGANIZATION AREA	Reference	An ORGANIZATION HIERARCHY LEVEL within an ORGANIZATION CHAIN. The Organization Area entity is the parent of one or more ORGANIZATION REGIONs.
ORGANIZATION BANNER	Reference	The name of Company, Organization, or subsidiary that is recognizable to the consumer or the name of the store as it appears on the catalog, web channel, or brick and mortar store.
ORGANIZATION BUSINESS ENTITY	Reference	Any logical entity that is a part of the enterprise for business analysis and transactions. Classification for a business entity can include company, operation unit, store, or warehouse.
ORGANIZATION BUSINESS UNIT	Reference	A business unit of the organization that delivers a limited range of specific communications services or merchandise through any sales channel (Web Site, store, partner stands, and so on). For example, for the SuperTelco example, two Business Units could be defined as: ▪ SuperTelco Communications (Mobile) ▪ SuperData (Broadband)
ORGANIZATION BUSINESS UNIT COST	Base	Sub-table of COST. This entity associates a specific cost to an ORGANIZATION BUSINESS UNIT (for those costs not covered by EMPLOYEE COST).
ORGANIZATION BUSINESS UNIT HOURS DAY DRVD	Derived	Simple daily summary at ORGANIZATION BUSINESS UNIT level of working, Opening and closing times. It should be limited to any units that may receive public (Retail Shops).
ORGANIZATION BUSINESS UNIT TYPE	Lookup	Lookup for type of ORGANIZATION BUSINESS UNIT. For example: ▪ Call Center ▪ Branch Office ▪ Warehouse
ORGANIZATION CHAIN	Reference	An ORGANIZATION HIERARCHY LEVEL within an ORGANIZATION COMPANY. Organization Chain entity is the parent of one or more ORGANIZATION AREAs.
ORGANIZATION COMPANY	Reference	An ORGANIZATION HIERARCHY LEVEL within an ORGANIZATION CORPORATE. Organization Company entity is the parent of one or more ORGANIZATION CHAINs.
ORGANIZATION CORPORATE	Reference	Highest level of ORGANIZATION HIERARCHY. Organization Corporate entity is the parent of one or more ORGANIZATION COMPANYs.
ORGANIZATION DISTRICT	Reference	An ORGANIZATION HIERARCHY LEVEL within an ORGANIZATION REGION. Organization District entity is the parent of one or more ORGANIZATION BUSINESS UNITs.
ORGANIZATION DIVISION	Reference	An ORGANIZATION HIERARCHY LEVEL within ORGANIZATION CORPORATE.
ORGANIZATION HIERARCHY	Reference	User defined. Master list of all of the hierarchies in an organization.
ORGANIZATION HIERARCHY LEVEL	Reference	The association entity for the hierarchies and levels.
ORGANIZATION HIERARCHY LEVEL ASSIGNMENT	Reference	Assignment of Hierarchy Levels to ORGANIZATION HIERARCHY.
ORGANIZATION HIERARCHY VERSION	Reference	Version of ORGANIZATION HIERARCHY.
ORGANIZATION ITEM SELLING PRICE	Reference	Associate selling price to the item. Each organization might have different prices for the same item model.
ORGANIZATION LEVEL	Reference	List of all the business levels within an organization.
ORGANIZATION LEVEL ATTRIBUTE VALUE	Reference	Values for the user defined attributes associated with an ORGANIZATION HIERARCHY LEVEL.
ORGANIZATION LEVEL ATTRIBUTES	Reference	Attributes assigned to an ORGANIZATION LEVEL.
ORGANIZATION MARKET DATA	Reference	Publicly available and statistical information regarding the internal or external parties, such as DUNS number and number of employees.
ORGANIZATION NAME	Reference	Different types of organization names represent the associated business legal status of their organization.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
ORGANIZATION REGION	Reference	An ORGANIZATION HIERARCHY LEVEL within an ORGANIZATION AREA. Organization Region entity is the parent of one or more ORGANIZATION DISTRICTs.
ORGANIZATION SERVICE WEBSITE	Reference	Subtype of the ORGANIZATION BUSINESS UNIT. This entity collects all information on websites managed by the operator. This normally includes only public information.
ORGANIZATION TYPE	Lookup	Type of ORGANIZATION. The category is similar to ORGANIZATION BUSINESS UNIT TYPE but they can be different.
ORGANIZATION WAREHOUSE	Reference	Location in which goods or merchandise (routers, handsets, computers, and so on) are stored but not sold, before they are sent to the shops or utilized by CSP. For example: ▪ Chairs ▪ Telephone poles ▪ Network equipment ▪ Auto transmissions ▪ Handsets
ORGANIZATIONAL DEMOGRAPHY VALUE	Reference	User defined attribute definitions and corresponding values regarding demographic statistics as related to an ORGANIZATION BUSINESS UNIT.
OS LICENSE ASSIGNMENT	Reference	Defines the semantics of the Party Role Licenses OS association. The OS License Assignment attributes help specify the licensing details for this particular OPERATING SYSTEM instance.
OTHER INDIVIDUAL	Reference	Individual associated with a PARTY organization, other than those defined such as CUSTOMER or EMPLOYEE.
P LOGICAL DEVICE ROLE	Reference	Defines required logical features to implement the specific role of a P (Provider Core) device, as used in a PRODUCT SPECIFICATION or SERVICE.
PACKET CONTROL UNIT OUTAGE REASON	Lookup	Lookup for reasons for a Packet Control Unit (PCU) outage in GPRS technology. For example: ▪ Link Down ▪ Bit Error Rate
PAGE	Reference	Web Page Description as part of a complete website navigation build-up and tracking.
PARTNER PAYMENT	Base	The payment made to the partners, such as vendors, dealers, and so on. The partners may also have accounts in the source system such as Oracle BRM, therefore, this payment may refer to that account.
PARTNER PAYMENT TYPE	Lookup	Lookup for types of partner payment transactions. For example: ▪ Dealer commission ▪ Purchase order Payment
PARTNER PROMOTION PROGRAM	Reference	Assigns costs of a given PROMOTION to a Partner or PARTY participating in the promotion.
PARTNER SETTLEMENT MONTH AGGR	Aggregate	The monthly summary of financial settlement activities that have happened to partners at higher level.
PARTNER SETTLEMENT DRVD	Derived	Financial settlement activities that have happened to each partner within the month.
PARTNER SETTLEMENT REASON	Lookup	Lookup for valid reason codes for a partner settlement.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PARTY	Reference	A party is a real person, organization, branch, subsidiary, legal entity, holding company, or some other entity. Any real thing that you would want to put a name to is a party. The attributes of a party are universal. In other words, they are independent of your selling, or ultimately buying relationship with the party. A party is not necessarily a customer. A party can represent prospects and parts of an ORGANIZATION HIERARCHY, including branches, head offices, corporate conglomerates, that may not necessarily have a billing relationship with the company. Any party that has an active account can be considered a customer. Historical information concerning the party is available in the Parties History.
PARTY ACCOUNT ASSIGNMENT	Reference	Assignment of a PARTY to an ACCOUNT. Depending on type of party, the relationship can be: ▪ Customer owns the ACCOUNT (typically for individual customers: there is one customer and one account) ▪ Multiple Customers may share the same account: This type of assignment is typical when several ORGANIZATION BUSINESS UNITs or individuals, association or employees, have, for example, a shared balance of free minutes to use on top of their own package (with their own ACCOUNT).
PARTY ACCOUNT ASSIGNMENT TYPE	Lookup	Lookup for type of relationship between PARTY and ACCOUNT. Depending on type of party, the relationship can be: ▪ Customer owns the account ▪ Multiple customers may share the same account
PARTY ADDRESS LOCATION ASSIGNMENT	Reference	Associates one or more ADDRESS LOCATIONs with a PARTY.
PARTY AGREEMENT ASSIGNMENT	Reference	Assignment of a PARTY to an AGREEMENT, in general, or a contract.
PARTY AGREEMENT ASSIGNMENT ROLE	Lookup	Lookup for valid Roles that Parties may be assigned in PARTY AGREEMENT ASSIGNMENT.
PARTY AGREEMENT ASSIGNMENT TYPE	Lookup	Lookup for type of the PARTY AGREEMENT ASSIGNMENTs. For example: ▪ Customer agreement ▪ Managing employee
PARTY AM PRODUCT OFFERING ASSIGNMENT HISTORY	Base	The status history of assignment among PARTY, ACCESS METHOD, and PRODUCT OFFERING. The assignment history among ACCESS METHOD, PRODUCT OFFERING, and PARTY.
PARTY AM PRODUCT OFFERING ASSIGNMENT STATUS	Base	The current status and relationship between ACCESS METHOD, PRODUCT OFFERING and PARTY, before being moved to PARTY AM PRODUCT OFFERING ASSIGNMENT HISTORY once changed.
PARTY ASSIGNMENT	Reference	Association of a PARTY with one or more other Parties. The relationships may include relationships between customers or between customers and the telecommunications operator. An example of the later type of relationship, are account management portfolios where an account manager will have a relationship with one or more customers.
PARTY ASSIGNMENT REASON	Lookup	Lookup for valid reasons parties may be associated with each other. For example: ▪ Cooptation (customer brings in a new customer) ▪ Financial Responsibility ▪ Hierarchical relationship in the organization ▪ Contractual agreement
PARTY ASSIGNMENT TYPE	Lookup	Lookup for the type of the party relationship. For example: ▪ Father and son ▪ Organizational hierarchy, subsidiary ▪ Customer referral

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PARTY BUSINESS INTERACTION ROLE	Reference	The business interaction role which can be assigned by a PARTY.
PARTY CONTACT INFORMATION	Reference	Contact information for a party.
PARTY CONTACT INFORMATION TYPE	Lookup	Lookup for the type of contact information. For example: ▪ Email ▪ Home telephone number ▪ Office telephone number ▪ Cell phone number ▪ Pager number
PARTY CONTACT LIST PARTICIPATION	Lookup	Relationship between PARTY and CONTACT LIST. For example, a party belongs to a contact list.
PARTY CONTACT LIST ROLE	Lookup	The Role of the PARTY in a CONTACT LIST.
PARTY COST ASSIGNMENT	Base	Assignment of cost items to a PARTY. One party may incur multiple costs. For example, for a customer acquisition the customer might be given any of the following items that lead to costs: ▪ Handset ▪ Network Device ▪ Gifts Cost might be assigned to multiple parties. For example, for operational cost several organizations may share the same expense on a PROMOTION or CAMPAIGN.
PARTY DEMOGRAPHIC	Reference	A demographic profile for a PARTY.
PARTY DEMOGRAPHIC VALUE	Reference	Defines individual and organization demography value for a given party demographic profile.
PARTY EVENT TYPE	Lookup	Lookup for valid EVENT TYPEs that may be assigned to a party profile for the various event types that may be actioned against a party.
PARTY GEOGRAPHY ENTITY ASSIGNMENT	Reference	Assigns a PARTY to one or more GEOGRAPHY ENTITYs.
PARTY IDENTIFICATION	Reference	Identifying information unique to a PARTY.
PARTY IDENTIFICATION TYPE	Lookup	Lookup for valid types of PARTY IDENTIFICATION. For example: ▪ Driver's License ▪ DUNS Number
PARTY LANGUAGE CAPABILITY	Reference	Keeps the language capability score for each party.
PARTY LOCATION REASON	Lookup	Lookup for available reason code and description for why a PARTY may be assigned to an address. For example: ▪ Billing address ▪ Shipping address
PARTY LOCATION TYPE	Lookup	The type of relationship between the PARTY and the address. For example: ▪ Office location ▪ Primary Living location ▪ Product Installation Address
PARTY MANAGEMENT ROLE	Lookup	Defines all roles which a party plays in a CAMPAIGN, such as management or potential customer.
PARTY MARKET SEGMENT ASSIGNMENT	Reference	Assigns a PARTY to the market segment it belongs to.
PARTY NAME	Reference	Lists any other known names from the life history of a given party.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PARTY ORDER ASSIGNMENT	Base	Assignment of PARTY to a given Order. For example: ▪ Sales Agent gets a sales commission because of a customer order. ▪ A customer refers another customer to the operator network. The customer may receive incentives.
PARTY ORDER ASSIGNMENT TYPE	Lookup	Lookup for available assignment type codes and descriptions pertaining to PARTY ORDER ASSIGNMENT. For example: ▪ Customer of agreement ▪ Sales agent for the order ▪ Vendor selling the order
PARTY PRODUCT SUBSCRIPTION ASSIGNMENT	Reference	Defines a PARTY's relationship to a PRODUCT SUBSCRIPTION. For example: a customer owns a subscription.
PARTY PRODUCT SUBSCRIPTION ROLE	Lookup	Lookup for valid Roles that may be assigned to PARTY in regards to the PRODUCT SUBSCRIPTION.
PARTY PROFILE	Reference	A match between a PARTY and a PARTY PROFILE TYPE. It is based on matching PARTY characteristics, such as use of a product, with the characteristics of a PARTY PROFILE TYPE.
PARTY PROFILE CHAR ASSIGNMENT	Reference	Association of (Profile specific) Characteristics to a given PARTY PROFILE.
PARTY PROFILE TYPE	Lookup	List of possible types of PARTY PROFILE. For example: ▪ Party Preference for Marketing actions ▪ Party Interests (Music, Sports, and so on)
PARTY PROFILE TYPE CHARACTERISTIC	Reference	The characteristic a party profile may take. For example, age, education, and so on.
PARTY PROFILE TYPE CHARACTERISTIC VALUE	Reference	The actual value for each PARTY PROFILE TYPE CHARACTERISTIC on the party profile.
PARTY PROJECT PARTICIPATION	Reference	Describe the roles of each party in the project.
PARTY PROMOTION RESPONSE	Base	Response of a PARTY to a PROMOTION. Records the customers response result to the initiative. For example, positive responses: ▪ The customer accepted the offer. ▪ The customer increased or modified their usage. ▪ The customer changed a specified behavior (for example moved from payment by check to an electronic payment option).
PARTY ROLE	Lookup	Lookup for Roles a PARTY may be assigned in an EVENT.
PARTY ROLE ASSIGNMENT	Reference	Assigns party roles for the party. PARTY and PARTY ROLE are an X-X relationship. This relationship may change due to a agreement change, or for other reasons.
PARTY ROLE CATEGORY	Reference	Specifies a simple grouping or categorization of PARTY ROLEs.
PARTY ROLE CATEGORY ASSIGNMENT	Reference	Shows the association between PARTY ROLE and various PARTY ROLE CATEGORYs
PARTY ROLE OS PROCESS ASSIGNMENT	Reference	Defines the semantics of the Party Role Uses Processes association. Since different PARTY ROLEs have different privileges for working on and running the OPERATING SYSTEM, an association class is needed to accurately model these details.
PARTY ROLE PROFILE ASSIGNMENT	Reference	Association of a given party ROLE (Customer, Provider, and so on) to a profile. Some profiles are only to be defined for specific roles while others can be defined for any.
PARTY ROLE STATUS	Lookup	Status history of each role that a PARTY has taken.
PARTY ROLE TYPE	Lookup	Type of PARTY ROLE, a general grouping for reporting purpose.
PARTY SEGMENTATION METHOD	Lookup	Method used to create the segment, such as K-means clustering in Data Mining.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PARTY SERVICE ASSIGNMENT	Reference	Defines the relationship between PARTY and SERVICE.
PARTY SERVICE ASSIGNMENT REASON	Lookup	Lookup for available reasons for a PARTY and SERVICE relationship.
PARTY SERVICE ASSIGNMENT ROLE	Lookup	Lookup for valid roles and descriptions a PARTY may be assigned for a SERVICE. For example: ▪ Service Creation role ▪ Service consumer by customer
PARTY SIM CARD ASSIGNMENT	Reference	The relationship between SIM CARD and PARTY.
PARTY SIM CARD ROLE	Lookup	The role which PARTY add in regards to the SIM CARD.
PARTY SKILL	Reference	Defines skills with a score and skill level to each PARTY.
PARTY STATUS CATEGORY	Lookup	Higher level of Party Status. For example: ▪ Financial Status ▪ Credit Status ▪ Payment Status ▪ Personal Status ▪ Legal Status
PARTY STATUS CHANGE REASON	Lookup	Lookup for valid reasons that may be assigned for a Party Status change. For example: ▪ Hire ▪ Transfer ▪ New customer
PARTY STATUS HISTORY	Base	Defines current PARTY status history regarding what Operator may be interested. Historical information captured for all lifetime of the customer or dealer. This information may be calculated from internal data; for example, from a payment, or this information may be obtained from an external source such as a credit rating agency.
PARTY STATUS TYPE	Lookup	Lookup for status type of the PARTY. For example: ▪ Active ▪ Inactive ▪ Defaulted ▪ New customer ▪ VIP, Loyalty Program, customer ▪ Black listed Credit Class is used to rank Customer Credit. For example, the entity value can be: ▪ Good ▪ Fair ▪ Bad Or the customer may be defined as: ▪ Gold ▪ Silver ▪ Bronze The party's credit is based on the underlying accounts held by the party.
PARTY TYPE	Lookup	Lookup for party type that classifies involved parties according to their inherent characteristics and structure. For example: ▪ Person ▪ Organization ▪ Organization Unit

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PASSPORT	Reference	The passport as a type of PARTY IDENTIFICATION.
PAY CATEGORY	Lookup	Lookup for type of pay category on a pay slip. For example: ▪ Salary ▪ Deductions ▪ Contributions ▪ Taxes
PAY TV SERVICE	Reference	Subtype of PRODUCT SPECIFICATION. Pay TV is subscription-based product to deliver TV channels to a customer.
PAY TYPE	Lookup	Lookup for the type of payment made to the employee. For example: ▪ Bonus ▪ Basic wages
PAYMENT AGING CLASS	Lookup	The classification of accounts according to payment delay history. For example: ▪ 0-10 days ▪ 11-20 days
PAYMENT CHANNEL	Reference	Channel by which customer may pay for service. For example: ▪ Bank (automatic payment) ▪ Store (Check, cash) ▪ Call Center (Credit Card) ▪ Web (Credit Card)
PAYMENT METHOD TYPE	Lookup	Lookup for valid methods of payment. For example: ▪ Cash ▪ Check ▪ Credit Card ▪ Debit Card
PAYMENT PLAN	Reference	List of plans for payment (typically for Credit purpose but not only).
PAYMENT TRANSACTION TYPE	Lookup	Lookup for type codes and descriptions for transaction types associated with the ACCOUNT PAYMENT. The payment may be, for example: ▪ Periodically Invoice ▪ Installation Fee ▪ Pre-deposit to the account ▪ Late Pay Penalty Payment ▪ Regular Monthly ▪ Refund / Void
PE LOGICAL DEVICE ROLE	Reference	Defines required logical features to implement the specific role of a PE (Provider Edge) device, as used in a PRODUCT SPECIFICATION or SERVICE.
PEAK OFFPEAK TIME	Lookup	The definition of the time slots is usage dependent, but it is not common for all the products/packages. The time hours (Peak, off-peak, and night) can be different for different packages. The definition also varies for the following: ▪ Normal Day ▪ Holiday ▪ Friday ▪ Sunday For the special days defined in the system.
PERFORMANCE	Base	A measure of the manner in which a SERVICE or RESOURCE is functioning.
PERFORMANCE APPLICABILITY	Reference	The time of day or days during which a PERFORMANCE SPECIFICATION is measured or not measured.
PERFORMANCE CAT CHARACTERISTIC VALUE	Reference	A value of a Characteristic Specification provided for PERFORMANCE CATEGORY that further defines what the PERFORMANCE CATEGORY is.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PERFORMANCE CAT SPEC RELATIONSHIP	Reference	A specification for an association that can be established between two instances of PERFORMANCE CATEGORYs.
PERFORMANCE CAT SPECIFICATION	Reference	The invariant characteristics that define a group or set of performance qualities that are classified together because of common characteristics.
PERFORMANCE CATEGORY	Reference	A group or set of performance qualities that are classified together because of common characteristics.
PERFORMANCE CATEGORY RELATIONSHIP	Reference	An association between two instances of PERFORMANCE CATEGORYs.
PERFORMANCE CHARACTERISTIC VALUE	Reference	A value of a characteristic provided for PERFORMANCE that further defines what the PERFORMANCE is.
PERFORMANCE CONSEQUENCE	Reference	An action taken if a PERFORMANCE OBJECTIVE is not met.
PERFORMANCE INDICATOR	Reference	A numeric value or text determined for a PERFORMANCE INDICATOR SPECIFICATION. For example, a value of .005 ms that represents average packet delay.
PERFORMANCE INDICATOR GROUP	Lookup	Defines a grouping of PERFORMANCE INDICATORs coming together (normally as a group of performance measurements).
PERFORMANCE INDICATOR GROUP SPEC	Lookup	A group of indicators, usually reported in the same message by the equipment.
PERFORMANCE INDICATOR RELATIONSHIP	Reference	An association between two PERFORMANCE INDICATORs, such as one indicator derived from another.
PERFORMANCE INDICATOR SPEC RELATIONSHIP	Reference	An association between two PERFORMANCE INDICATOR SPECIFICATIONs, such as one indicator derived from another.
PERFORMANCE INDICATOR SPECIFICATION	Reference	A measure of a specific aspect of the performance of an entity, such as a lost packets or average jitter, defined for a PERFORMANCE SPECIFICATION that may trigger the creation of a PERFORMANCE CONSEQUENCE.
PERFORMANCE IP ADDRESS	Reference	A Performance-related extension to an IP ADDRESS.
PERFORMANCE MOBILE ADDRESS	Reference	A network address that identifies mobile Resource Resources, such as cell sites and base station controllers.
PERFORMANCE NETWORK ADDRESS	Reference	A Performance-related extension to a NETWORK ADDRESS. A NETWORK ADDRESS defines different ways to identify where an Resource is, such as an IP ADDRESS, or an IPXAddress, or a Point Code.
PERFORMANCE NOTIFICATION	Reference	A communication that occurs as part of measuring performance. A Notification is typically one-sided, that is, no Response is expected.
PERFORMANCE NOTIFICATION SPECIFICATION	Reference	The invariant characteristics that define a communication (notification) that occurs as part of performance measurement. A Notification is typically one-sided, that is, no Response is expected.
PERFORMANCE OBJECTIVE	Reference	A goal for a PERFORMANCE INDICATOR defined in terms of metrics, thresholds, and tolerances.
PERFORMANCE OBJECTIVE APPLICABILITY	Reference	The time of day or days during which a PERFORMANCE OBJECTIVE is evaluated or not evaluated.
PERFORMANCE OBJECTIVE APPLICABILITY CONSEQUENCE	Reference	The time of day or days during which a Performance Objective Consequence applies or not to the violation of a PERFORMANCE OBJECTIVE.
PERFORMANCE POINT CODE	Reference	The performance gathered on a POINT CODE (subtype of NETWORK ADDRESS).
PERFORMANCE SPEC INTERVAL CONVERSION	Reference	The conversion factor that defines how many instances of one PERFORMANCE SPECIFICATION INTERVALs are contained in the related PERFORMANCE SPECIFICATION INTERVAL.
PERFORMANCE SPECIFICATION	Reference	The invariant characteristics that define a measure that determines how a SERVICE and/or Resource is functioning.
PERFORMANCE SPECIFICATION INTERVAL	Reference	The interval of time for represented by the PERFORMANCE SPECIFICATION.
PERIOD TO DATE TRANSFORMATION	Reference	Cumulative time transformations at the period level.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PERIOD TRANSFORMATION	Reference	Time transformations at the period level.
PERSONAL ID REQUIRED TYPE	Lookup	Possible Types of Identification (document) required for a person (Driving license, Personal ID, passport).
PHASE	Reference	Not used.
PHONE NUMBER	Reference	The phone number as a subtype of access method.
PHONE NUMBER POOL	Reference	The telephone number pool allocated to the TELCO operator.
PHYSICAL CAPACITY	Reference	This entity represents the minimum and maximum requirements, limits, or other variable features of a Managed Device or MANAGED HARDWARE object.
PHYSICAL CAPACITY DETAIL	Reference	Represents the semantics of the Has PHYSICAL CAPACITY association. The Physical Capacity Detail provides additional semantics describing the different types of PHYSICAL CAPACITYs that this Managed Component contains, and provides methods to tell how many PHYSICAL CAPACITYs are associated with this particular Managed Component instance.
PHYSICAL COMPONENT	Reference	This is the base entity for different types of Physical Components that can reside either in an EQUIPMENT or an Equipment Holder object. They cannot be used as a standalone object. From a management point-of-view, this object either cannot or does not need to be split into its constituent parts. For example, an ASIC (or Chip) cannot, and a tape for data storage does not need to be split up into their constituent parts. Any piece of hardware that is not a PHYSICAL LINK, PHYSICAL CONNECTOR, EQUIPMENT, or Equipment Holder, is a subclass of this class.
PHYSICAL CONNECTOR	Reference	This is a concrete entity that represents any type of hardware unit that connects to other hardware units and transmit signals and/or power between them.
PHYSICAL CONTAINER	Reference	This entity adds additional semantics to the MANAGED HARDWARE entity. The associated attributes define whether a MANAGED HARDWARE object can be removed and/or replaced, and whether this action requires power to be removed or not when the action is performed.
PHYSICAL COUNT DOCUMENT	Base	Document associated with the manual Inventory (typically done once a year) in retail shops.
PHYSICAL COUNT DOCUMENT LINE ITEM	Base	Describes the line items in the documents associated with a manual Inventory in retail shops.
PHYSICAL DEVICE	Reference	This entity represents hardware devices that can be managed. Represents a convenient aggregation point for combining different aspects of a device (for example, the cables, connectors, cards, power supplies, and other objects that together comprise the device). Thus, it enables the device itself to have a physical manifestation (for example, the "Internet Gateway Router" can be identified as a PHYSICAL DEVICE). Examples of this entity include routers and switches, computers, and other end-devices that are managed.
PHYSICAL DEVICE ATOMIC	Reference	Entity for representing hardware devices that can be managed that contains no sub-ordinate devices. In other words, this physical device is a standalone physical device. Represents a convenient aggregation point for combining different aspects of a device (for example, its physical composition and the set of services that it offers). The Physical Device Atomic also enables the device itself to have a physical manifestation. Examples of this entity include routers and switches, computers, and other end-devices that are managed.
PHYSICAL DEVICE COMPOSITE	Reference	Entity for representing hardware devices that can be managed that contains one or more sub-ordinate devices. In other words, this physical device is not a standalone physical device; rather, it represents an aggregation of physical devices. Each physical device in this aggregation can be managed. Represents a convenient aggregation point for combining different aspects of a device (for example, its physical composition and the set of services that it offers). The Physical Device Composite also enables the device itself to have a physical manifestation. Examples of this entity include routers and switches, computers, and other end-devices that are managed.
PHYSICAL DEVICE ROLE SPEC	Reference	Entity for all Physical Device Role Specification subclasses. The Physical Device Role Spec enables relationships to be defined between itself and other entities in the core model. This helps prevent relationship explosion. The Physical Device Role Spec entity defines the invariant attributes, methods, relationships, and constraints of various types of roles associated with PHYSICAL DEVICEs in the model.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PHYSICAL DEVICE ROLE SPEC DETAIL	Reference	Captures the semantics of the Specifies Physical Device Roles aggregation.
PHYSICAL DEVICE SPEC	Reference	This entity describes specific attributes, behavior, relationships, constraints, and semantics for building PHYSICAL DEVICE objects.
PHYSICAL EQUIPMENT	Reference	Represents physical components of a managed device, including replaceable components. An instance of this object class must be present in only a single geographic location. An Equipment object may be nested within another Equipment object, thereby creating a containment relationship. The Equipment type shall be identified by sub-classing this object class. Either the name of the sub-class or an attribute may be used for identifying the equipment type.
PHYSICAL LINK	Reference	This is a concrete entity that represents the connecting or cabling together of hardware entities. This entity enables both wireless and connector-based communication to be modeled.
PHYSICAL PORT	Reference	Represents an actual or potential end point of a topological (physical) link, and corresponds directly to a physical port on a topology map. Physical Ports are always contained by another physical object - they cannot exist by themselves. The two most common examples are Physical Ports on a CARD and on a CHASSIS.
PHYSICAL PORT RESOURCE PORT ASSIGNMENT	Reference	This entity is a concrete entity that defines the semantics of the PHYSICAL PORTs In Resource Port aggregation. For example, it will describe characteristics and behavior of the PHYSICAL PORTs that comprise this particular Resource Port in terms of dependencies and how a PHYSICAL PORT interacts with other PHYSICAL PORTs.
PHYSICAL RESOURCE	Reference	This entity describes different types of hardware that constitute a PRODUCT SPECIFICATION. The Physical Resource has two main purposes: 1. To collect common attributes and relationships for all hardware. 2. To provide a convenient, single point where relationships with other managed objects can be defined.
PHYSICAL RESOURCE ADDRESS	Reference	Not used.
PHYSICAL RESOURCE CHARACTERISTIC	Reference	This is a concrete base class for defining the characteristic features and behavior of a Physical Element Specification. Every Physical Element Specification has a variety of important attributes, methods, constraints, and relationships which distinguish that Physical Element Specification from other Physical Element Specifications. We call these Physical Element SpecCharacteristics. Each of these characteristics is used at the business level to characterize a Physical Element Specification.
PHYSICAL RESOURCE PRODUCT SUBSCRIPTION	Reference	A subtype of PRODUCT SUBSCRIPTION to track tangible device usage by the customer.
PHYSICAL RESOURCE ROLE	Reference	This is a physical role that a device has. The Physical Resource Role enables the correlation of physical components that route traffic with the logical capability of routing traffic.
PHYSICAL RESOURCE ROLE ASSIGNMENT	Reference	This class implements the semantics of the RolesDescribePhysical Element aggregation.
PHYSICAL RESOURCE ROLE SPECIFICATION	Reference	Entity for all Physical Resource Role Specification subclasses. The Physical Resource Role Spec enables relationships to be defined between it and other classes in the model. This helps prevent relationship explosion. The Physical Resource Role Spec defines the invariant attributes, methods, relationships, and constraints of various types of roles associated with Physical Resources, whether they are subclasses of PHYSICAL DEVICE or Hardware, in the model. Specifies relationships to be defined between it and other classes in the model. This helps prevent relationship explosion.
PHYSICAL RESOURCE ROLE SPECIFICATION DETAIL	Reference	Captures the semantics of the PHYSICAL RESOURCE ROLEs aggregation.
PHYSICAL RESOURCE SPECIFICATION	Reference	This entity defines the invariant characteristics and behavior, attributes, methods, constraints, and relationships, of a PHYSICAL RESOURCE.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PHYSICAL RESOURCE SPECIFICATION ATOMIC	Reference	Describes specific attributes, behavior, relationships, constraints, and semantics for building PHYSICAL RESOURCE objects. The purpose of this entity is to track Physical Resource Specifications separately from other types of Resource Specifications. This entity inherits the Specifies Resource aggregation, and therefore can be used with the corresponding PHYSICAL RESOURCE entity. The difference between this entity and the PHYSICAL RESOURCE SPECIFICATION COMPOSITE entity is that this entity represents standalone Physical Resource Specifications. The PHYSICAL RESOURCE SPECIFICATION COMPOSITE entity represents a specification that is in reality made up of a set (usually a hierarchy) of Physical Resource Specifications.
PHYSICAL RESOURCE SPECIFICATION COMPOSITE	Reference	This entity describes specific attributes, behavior, relationships, constraints, and semantics for building Physical Resource objects. The purpose of this entity is to track Physical Resource Specifications separately from other types of Resource Specifications. This entity inherits the modifiesResourceSpec aggregation, and therefore can be used with the corresponding PHYSICAL RESOURCE SPECIFICATION entity. The difference between this entity and the PHYSICAL RESOURCE SPECIFICATION ATOMIC entity is that this entity represents a hierarchy of Physical Resource Specifications. The PHYSICAL RESOURCE SPECIFICATION ATOMIC entity represents a single standalone Physical Resource Specification.
PIPE	Reference	Pipe is an abstracted Link between two network resources (which are also abstracted as TERMINATION POINTs).
PIT CHARACTERISTIC	Reference	Not used.
PIT CHARACTERISTIC TYPE	Lookup	Not used.
PLANNING PERIOD	Reference	Period level in the planning calendar.
PLANNING QUARTER	Reference	Quarter level in the planning calendar.
PLANNING SEASON	Reference	Season level in the planning calendar.
PLANNING WEEK	Reference	Week level in the planning calendar.
PLANNING YEAR	Reference	Year level in the planning calendar.
PLATFORM	Reference	Platform (from a Software or Applications perspective) on which an application or a software runs.
POINT BLOCK	Reference	ISUP Signaling OPC and DPC attributes. It is associated with "block point".
POINT CODE	Reference	ISUP Signaling OPC and DPC attributes that map to Region, Subregion, Node Type, and Node Name.
POINT OF SALE DEPARTMENT	Reference	Point of Sale (POS) grouping of items with similar point of sale control and processing attributes. The entity type may also be used to control sales that are not properly identified at the item level.
POINT OF SALE IDENTITY TYPE	Lookup	Lookup for type of identifier used in POS identity.
POINT OF SALE TENDER FLOW DRVD	Derived	Point of Sale (POS) Tender transactions by minute and tender type for a workstation in an ORGANIZATION BUSINESS UNIT.
POINT OF SALE TYPE	Lookup	Type of Point of Sale (POS) transactions.
POINTS EXPIRY BASIS	Reference	List the various periods (or basis) on which points will expire.
POLICIER SERVICE	Reference	Specifies limits for traffic flow to a configured bit rate with limited bursting capability. For example, a standard policer service has no buffering, meaning that packets that cannot be transmitted are simply dropped.
POLICY	Reference	This entity is the root of the POLICY model. As such, it defines common attributes, methods and relationships that all policy subclasses use and take part in.
POLICY ACTION	Reference	This entity represents how to form the action clause of a POLICY RULE. This consists of a single occurrence of a POLICY STATEMENT, which is of the form: {variable, operator, value} Policy actions have the semantics of "SET variable to value". There are two types of actions: - pass actions are invoked if the condition clause was TRUE - fail actions are invoked if the condition clause was FALSE.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
POLICY ACTION ASSIGNMENT	Reference	This entity specifies the semantics needed for the contained Policy Actions aggregation.
POLICY ACTION ATOMIC	Reference	This is the base entity for all simple POLICY ACTIONs. A simple POLICY ACTION consists of a single Boolean clause, which performs a single action. This consists of a single occurrence of a POLICY STATEMENT, which is of the form: {SET | CLEAR} POLICY VARIABLE to POLICY VALUE. This is distinctly different from the Policy Action Vendor, which does not use a POLICY STATEMENT. Policy Action Atomic objects can also be used to form more complex action structures. A Policy Action Composite object contains a group of Policy Action Atomic objects; this grouping enables multiple Policy Action Atomic objects to be executed as a group. Alternatively, a Policy Action Atomic object can contain one or more Policy Action Atomic objects (and also Policy Action Composite groups if desired) to provide the semantics of a compound Policy Action. In either case, the aggregation is done using the contained Policy Actions aggregation.
POLICY ACTION COMPOSITE	Reference	Serves as a generic container in which to place Policy Action Atomic, Policy Action Vendor, or Policy Action Composite entities. The first two provide actions that this container groups, while the latter establishes a hierarchy in which to order the execution of POLICY ACTIONs. Both simple and complex POLICY ACTIONs can be placed in this container. Each Policy Action Atomic and Policy Action Vendor object is linked to this object using the containedPolicy Actions association.
POLICY ACTION RULE ASSIGNMENT	Reference	This entity specifies the semantics needed for the Policy Action In Policy Rule aggregation. This aggregation defines the set of POLICY ACTIONs that are contained in this POLICY RULE.
POLICY ACTION VENDOR	Reference	Provides a general extension mechanism for representing POLICY ACTIONs that have not been modeled with the attributes specified in this model. This entity uses two of its properties (Constraint and Constraint Encoding) for defining the content and format of a vendor-specific condition. Its third property (actionResponse) to provide a standard result, so that this object can be placed with other POLICY ACTION objects in a POLICY RULE object. Standardized extensions are not expected to use this entity.
POLICY APPLICATION ASSIGNMENT	Reference	This is an association class that explicitly defines which Managed Entities in a Policy Domain this Policy information applies to.
POLICY CONDITION	Reference	This entity represents how to form the condition clause of a POLICY RULE. This entity represents rule-specific or reusable policy conditions. Policy conditions are of the form: {variable, operator, value} where the operator is usually the MATCH operator, but could be another type (for example, compare) of operator. This gives the semantics of "IF the condition is TRUE (or FALSE)". The subclasses of POLICY CONDITION, along with its recursive aggregation, enable simple and compound (for example, nested) POLICY CONDITIONs to be supported by the same structure.
POLICY CONDITION ASSIGNMENT	Reference	This entity specifies the semantics needed for the Policy Condition In Policy Condition aggregation. This aggregation defines the set of POLICY CONDITIONs that are contained in this POLICY CONDITION. The POLICY CONDITION Contained Policy Condition Details entity and the Policy Condition Rule Details entity have conceptually the same attributes. This is because they both provide semantics to form a condition expression. The difference lies in their placement relative to the POLICY RULE entity. That is, the Contained Policy Condition Details entity combines individual expressions within a condition clause, whereas the Policy Condition Rule Details entity describes how the completed condition clause appears to the POLICY RULE.
POLICY CONDITION ATOMIC	Reference	This is the base entity for all simple policy conditions. A simple policy condition consists of a single Boolean clause, which tests a single condition. This consists of a single occurrence of a POLICY STATEMENT, which is of the form: {variable, operator, value} This design relies on the POLICY STATEMENT to supply the actual terms to form the condition clause. Thus, since everything is normalized to a condition clause, no subclasses of Policy Condition Atomic are needed. Instead, subclasses of the appropriate POLICY STATEMENT classes are provided. A compound POLICY CONDITION consists of one or more POLICY CONDITIONs contained inside a higher-level POLICY CONDITION. These can optionally be grouped by a POLICY CONDITION COMPOSITE object if desired.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
POLICY CONDITION COMPOSITE	Reference	The POLICY CONDITION COMPOSITE entity is the base entity for all complex policy conditions. A complex policy condition consists of an aggregation of POLICY CONDITION ATOMIC and POLICY CONDITION COMPOSITE objects, which in turn form a complex Boolean statement. Such an object still evaluates to a single Boolean TRUE or FALSE value. Conceptually, this is a standalone object that consists of one POLICY CONDITION that provides an overall context for either a nested or a group of subordinate POLICY CONDITIONs to be evaluated.
POLICY CONDITION RULE ASSIGNMENT	Reference	This entity specifies the semantics needed for the Policy Condition In Policy Rule aggregation. This aggregation defines the set of Policy Conditions that are contained in this POLICY RULE. The Contained Policy Condition Details entity and the Policy Condition Rule Details entity have conceptually the same attributes. This is because they both provide semantics to form a condition expression. The difference lies in their placement relative to the POLICY RULE entity. That is, the Contained Policy Condition Details entity combines individual expressions within a condition clause, whereas the Policy Condition Rule Details entity describes how the completed condition clause appears to the POLICY RULE.
POLICY CONDITION TIME PERIOD	Reference	Lists the various Time Period with POLICY CONDITION. It gives the "capability of enabling or disabling a POLICY CONDITION according to a pre-determined time schedule".
POLICY CONDITION VENDOR	Reference	General extension mechanism for representing POLICY CONDITIONs that have not yet been modeled with the attributes specified in this model.
POLICY EVENT	Base	Represents an aggregation of Policy Events, constrained according to the eventConstraint attribute of the Event Details aggregation entity. This set of Policy Events is then presented to one or more POLICY RULEs to trigger the evaluation of their condition clauses. This entity enables an external application, such as a Policy Server, to dynamically adjust the set of events that are being used to trigger the evaluation of a POLICY RULE.
POLICY EVENT ATOMIC	Base	Represents the occurrence of a single atomic event, which triggers the evaluation of the condition clause of a POLICY RULE.
POLICY EVENT COMPOSITE	Base	Represents the occurrence of a composite event. A composite event is an event that is made up of a set of Policy Event Atomic and/or Policy Event Composite entities. Like a Policy Event Atomic, a Policy Event Composite can also be used to trigger the evaluation of the condition clause of a POLICY RULE.
POLICY GROUP	Reference	This entity is a generalized aggregation container. A Policy Group enables POLICY RULEs and POLICY GROUPs to be aggregated in a single container. Note that loops, including the degenerate case of a POLICY GROUP that contains itself, are not allowed when POLICY GROUPs contain other POLICY GROUPs.
POLICY GROUP EXECUTION DETAIL	Reference	This is an association entity that defines the semantics associated with a Policy Event Set being applied to a POLICY GROUP. Specifically, it controls through its Execution Filter attribute which components in the POLICY GROUP this Policy Event Set will be passed to, so it can be evaluated.
POLICY OPERATOR	Reference	This is a concrete entity for modeling different types of operators in a POLICY STATEMENT. By restricting the type of operator used in a POLICY STATEMENT, one can effectively restrict the semantics of that POLICY STATEMENT.
POLICY OPERATOR VARIABLE ASSIGNMENT	Reference	Defines the relationship between POLICY OPERATOR and POLICY VARIABLE.
POLICY ROLE	Reference	This entity defines the concept of various types of roles for different policies that are used.
POLICY RULE	Reference	Entity for realizing the "event-condition-passaction-failaction" semantics that form a the model policy rule. The semantics of this rule are that the rule is evaluated when an event occurs. If the condition clause is satisfied, then the pass-action clause will be executed (otherwise, the fail-action clause will be executed). POLICY RULEs may be nested within POLICY RULEs. This is often needed in networking (for example, bandwidth allocation).

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
POLICY SET	Reference	This entity defines two types of collections. POLICY RULE collects Policy Events, POLICY CONDITIONs, and POLICY ACTIONs, while POLICY GROUP collects POLICY RULEs and POLICY GROUPs. Two important and powerful features of this arrangement are that a POLICY SET defines a common decision strategy and a common set of POLICY ROLEs to be used by the POLICY GROUPs and the POLICY RULEs that inherit from it.
POLICY SET ASSIGNMENT	Reference	Defines relationship between POLICY SETs.
POLICY STATEMENT	Reference	This entity models the triplet {variable, operator, value} that is used by both the POLICY CONDITION and POLICY ACTION entities. The semantics are reflected in the types of operators that are allowed to be used in each case. For conditions, users want the semantics of "variable relates to value", where "relates to" is usually the match operator, but could also be other applicable operators (for example, a comparison operator). For actions, users want the semantics of "set variable to value". Here, the only operator allowed is the set operator.
POLICY VALUE	Reference	An abstract base entity for modeling different types of values that occur in a POLICY STATEMENT. The POLICY VALUE specifies an attribute that should either be set or cleared (if used in a POLICY ACTION) or matched or compared to a value of the POLICY VARIABLE in a POLICY CONDITION.
POLICY VARIABLE	Reference	This entity models different types of variables that form a POLICY STATEMENT. The variable specifies an attribute or concept that should either be matched or compared to a value when the condition is evaluated.
POLICY VARIABLE VALUE ASSIGNMENT	Reference	This is an association class that contains the OCL expression that will be used to define the particular semantics of how this Value is constrained by this Variable. This includes constraints such as upper and lower bounds of the value that a POLICY VALUE object can take.
POSTAL SERVICE TYPE	Lookup	Lookup for type of postal service type available to the carrier. For example: ▪ First-Class Mail ▪ Registered Mail ▪ Regular Mail ▪ Postal Card
POSTCODE	Reference	Postal Code, Zip Code, or similar geographical designation.
PPA CATEGORY	Lookup	Lookup for categorizations of prepaid allowances. For example: ▪ Local Call Allowance ▪ Long Distance Call Allowance ▪ Bonus Free Minutes ▪ Internal (Inside Operators network) Call Allowance
PPA DEDUCTION TYPE	Lookup	Lookup for valid deduction types as related to prepaid allowances (PPA).
PREAMBLE MARKER SERVICE	Reference	Subtype of MARKER SERVICE.
PREAMBLE MARKING DETAILS ASSIGNMENT	Reference	Details the TRAFFIC CONDITIONING SERVICE linked to the PREAMBLE MARKER SERVICE.
PREFERENCE TYPE	Lookup	The type of preference relevant to consumers or customers (for example, color preference).
PREPAID ACCOUNT STATISTIC DRVD	Derived	Monthly aggregation of prepaid account revenue, including: air time, recharge value and so on, by ACCOUNT, SALES CHANNEL, AGE ON NET BAND.
PREPAID ALLOWANCE DAY DRVD	Derived	The summary of daily prepaid voucher recharge.
PREPAID ALLOWANCE MONTH AGGR	Aggregate	Monthly summary of free minutes allowance (PPA) in a PRODUCT OFFERING.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PREPAID MOBILE EVENT TYPE	Lookup	Lookup for the prepaid mobile event types that may be actioned against a prepaid mobile subscription. The specific event types are implementation specific. For example: ▪ Initial activation ▪ Recharges ▪ Adjustments ▪ Deactivations
PREPAID RECHARGE	Base	Type of ACCOUNT PAYMENT in which a PREPAID VOUCHER is recharged.
PREPAID VOUCHER	Reference	The voucher a customer can buy to refill their prepaid account, normally in the form of a paper or plastic card. For example: ▪ Prepaid Mobile Recharge Voucher ▪ Prepaid Calling Card
PREPAID VOUCHER BATCH	Reference	Each voucher instance generation batch may produce thousands vouchers.
PREPAID VOUCHER RECHARGE OPTION	Reference	The recharge options for a type of PREPAID VOUCHER. A voucher can be configured with different perceived value to the customer and they may choose to redeem any one of them. For example a voucher may have the following recharge options: ▪ $10 cash ▪ $5 and 400 SMS ▪ 20Mb data
PREPAID VOUCHER SPECIFICATION	Reference	Specification associated with (an instance of) a Voucher. The voucher customer can buy to refill their prepaid account, normally in form of a paper or plastic card. For example: ▪ Prepaid Mobile Recharge Voucher with face value $50 ▪ Prepaid Calling Card It is subtype to ITEM SPECIFICATION.
PRICE DERIVATION RULE	Reference	The specification of a method to be used to transform the current sell unit retail amount to the price charged to account based on a discount group.
PRICE EVENT	Reference	Type of event which may trigger a billing process, for example, event of customer using a product over its quota.
PRICE REASON	Lookup	Possible REASONs for setting a given price. This is informative only.
PRICE TYPE	Lookup	Lookup for type codes and descriptions for COMPOSITE PRODUCT SPECIFICATION charge on a PRODUCT SPECIFICATION. For example: ▪ One time charge ▪ Usage duration charge ▪ Usage per call charge ▪ Usage amount charge (data transfer) ▪ Monthly cycle forward fee ▪ Monthly cycle arrear fee ▪ Free unit charge ▪ Free charge ▪ Factorization (call charge* a factor)
PRICE TYPE RELATION REASON	Lookup	Lookup for available reasons for PRICE TYPEs to be related to each other.
PRICE TYPE RELATIONSHIP	Reference	Assignment of related PRICE TYPEs.
PRIORITY QUEUING SERVICE	Reference	Entity to monitor queues and ensure that they are used properly. Subtype of QUEUE SERVICE.
PROBLEM	Base	Defines any type of problems in general. Specifies details that are always applicable when dealing with problems as part of a process.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PROBLEM COMMENTS	Base	Any comments or additional text associated with a PROBLEM. It is a separate entity to allow several comments to a given PROBLEM depending on who is dealing with it.
PROBLEM ESCALATION LEVEL	Lookup	The different levels of priority which can be assigned to any PROBLEM (and concretely to SERVICE PROBLEM).
PROBLEM LOCATION ASSIGNMENT	Base	Association of one or more ADDRESS LOCATIONs to a given PROBLEM. Typically, it would be the location of the source of the problem. But it could also be the address of main alarm or whatever fits the problem description.
PROBLEM RELATIONSHIP	Base	Describes Relationships between problems, in particular if they are causally related.
PROBLEM RESOURCE ASSIGNMENT	Base	Describes the resources involved in the root cause of the PROBLEM.
PROBLEM SERVICE ASSIGNMENT	Base	Describes the services that are associated with the root cause of the PROBLEM.
PROBLEM STATUS HISTORY	Base	Defines the history of status of any PROBLEMs: for example, from opened to solved pending confirmation to solved.
PROBLEM TRACKING RECORD ASSIGNMENT	Base	Associates TRACKING RECORDs to PROBLEMs.
PROBLEM TROUBLE TICKET ASSIGNMENT	Reference	Association of TROUBLE TICKETs to specific (service) PROBLEMs.
PROCESS	Reference	Defines the various possible processes as defined by the Communications Service Provider. It should normally fits within eTOM but could be generalized to any type of processes at any place (within a software or from an organization perspective). It is the general description of a potentially recurring series of events with various complexity (parallelism, sequentially related or not, and so on). This entity is required to track any process events in Oracle Communications Data Model.
PROCESS COST	Base	Tracks the costs associated with a specific PROCESS EVENT, from any point of view (labor cost, effective cost like ink, paper and stamps, and so on).
PROCESS EVENT	Base	The effective run of a given process from start to end. Although not explicitly required, a process event is usually expected to be an atomic event (no sub-process event). But nothing in Oracle Communications Data Model prevents a building up of complex process and process event structure. Process event is not a sub-type of EVENT.
PROCESS EVENT ASSIGNMENT	Reference	Describes the effective or actual sequential relationship between PROCESS EVENTs.
PROCESS EVENT PARAMETER VALUE OPERATOR ASSIGNMENT	Base	Assignment for a specific PROCESS EVENT of Operators (logical or mathematical in general) to some of its parameters and values.
PROCESS EVENT PRODUCT OFFER PRICE ASSIGNMENT	Reference	Association of process events with a specific PRODUCT OFFERING PRICE (or rate plan). This is usually used at rating or Billing time to deal with specific offering or customers (or partners like for interconnection settlement) following particular processes or calculations.
PROCESS INVOICE DAY DRVD	Derived	Daily summary of the end-to-end invoice processing (Billing, issuing, dispatching), observed from the end process (that is, Successful Dispatching). This entity is critical for the computation of some TMF KPIs.
PROCESS INVOICE DISPATCHING EVENT	Base	Defines any INVOICE dispatching process (from upload to the web to standard mailing to the customers) with some specific statistics related. The process event is considered ended once the letter or email is sent or when the invoice is available for download to the customer. It does not wait to get confirmation of receipt.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PROCESS INVOICE GENERATION EVENT	Base	Lists and describes any INVOICE GENERATION PROCESS (also called Billing Process itself, from invoice item collections to final invoice set-up ready for printing or publishing) with some specific statistics related. All the bill content shall be present in an electronic form, ready to be sent as-is to either the printing process or to the web publishing or formatting process (for example that turns it into a PDF if it is not already the case).
PROCESS INVOICE ISSUING EVENT	Base	Describes statistics for the process of issuing a bill. For example, printing, preparing for customer online display, creating pdf file for download, and so on.
PROCESS PARAMETER	Reference	List the parameter expected and their definition to be filled to allow given PROCESSes to run.
PROCESS PARAMETER ASSIGNMENT	Reference	Association of the standard Parameter(s) expected to the PROCESSes to be able to run.
PROCESS PARAMETER OPERATOR	Lookup	List of Operators (logical or mathematical in general) available to be associated with Parameters from specific processes.
PROCESS PARAMETER VALUE	Reference	Lists of effective Parameter values used per process event.
PROCESS RELATIONSHIP	Reference	Defines the standard sequential or causal relationships between processes. These are not necessarily the effectively used ones but default should be at least defined.
PROCESS RELATIONSHIP TYPE	Lookup	Type of relationship between processes. Typically, it is "SEQUENTIAL" (FROM then TO) or "PARENT" (FROM includes TO). But other relationships could be imagined.
PROCESS SPECIFICATION	Reference	Lists the specifications (that is, invariant characteristics) of a given PROCESS.
PROCESS SPECIFICATION RELATIONSHIP	Reference	Relationships between PROCESS SPECIFICATIONs, where required.
PROCESS STATUS	Lookup	Lists the possible status of a process event. The first Word of the "NAME" can be used for grouping purpose.
PROCESS TYPE	Lookup	Lists the types of PROCESSes one deals with. It should correspond to the eTOM processes a priori, but there are none pre-defined.
PRODUCT	Reference	The real instance of a given PRODUCT SPECIFICATION which a customer can purchase or rent (or eventually gets for free as part of a PRODUCT OFFERING). The product is linked to the Customer Order Line Item and relates a product to a customer. For example: ▪ Song specified as "You are not alone": Corresponding to Product MUSIC DOWNLOAD ▪ TV channel specified as "Discovery" - Corresponding to Product PAY TV SERVICE
PRODUCT BRAND	Lookup	Brand of the PRODUCT SPECIFICATION or PRODUCT OFFERING. The operators can provide the same product under different brands for different segments of customers. For example, some operators may have brand such as Business, High End, Economical, for the same gsm wireless product.
PRODUCT CAPABILITY	Reference	Various product capabilities, or features. For example: ▪ Number of lines for a phone ▪ Storage size for Email ▪ Number of "Friends&Family" numbers
PRODUCT CAPABILITY TYPE	Lookup	Lookup for type of PRODUCT CAPABILITY.
PRODUCT CAPABILITY VALUE	Reference	Detailed PRODUCT CAPABILITY information. The information would be quantitative by PRODUCT CAPABILITY TYPE.
PRODUCT CATALOG	Reference	A list of PRODUCT OFFERING for sale, with prices and illustrations, for example in book form or on the web. Product Catalogs can be used by Customers during a self-care ordering process and may be used across one or more Distribution Channels.
PRODUCT CATALOG CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a Product Catalog Specification.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PRODUCT CATALOG CHARACTERISTIC ASSIGNMENT	Reference	A use of the Product Catalog Spec Characteristic by an Entity Specification to which additional properties (attributes) apply or override the properties of similar properties contained in Product Catalog Spec Characteristic.
PRODUCT CATALOG CHARACTERISTIC RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between/among Characteristic Specifications.
PRODUCT CATALOG CHARACTERISTIC VALUE	Reference	A value associated with a Product Catalog Characteristic.
PRODUCT CATALOG CHARACTERISTIC VALUE ASSIGNMENT	Reference	A use of the Product Catalog Spec Characteristic Value by an Product Catalog Specification to which additional properties (attributes) apply or override the properties of similar properties contained in Product Catalog Spec Characteristic Value.
PRODUCT CATALOG CHARACTERISTIC VALUE RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between/among Characteristic Spec Values.
PRODUCT CATALOG GEOGRAPHY ASSIGNMENT	Reference	Defines which PRODUCT CATALOG is available in which geographical area.
PRODUCT CATALOG PRESENTATION TYPE	Reference	The PRODUCT CATALOG presentation type. For example: ▪ Brochure ▪ Web pages ▪ Video
PRODUCT CATALOG PRODUCT OFFERING ASSIGNMENT	Reference	Defines the relationship between a PRODUCT CATALOG and the PRODUCT OFFERINGs that appeared on the PRODUCT CATALOG.
PRODUCT CATALOG SALES CHANNEL ASSIGNMENT	Reference	Defines where the PRODUCT CATALOGs are made available to the end user.
PRODUCT CATALOG TYPE	Lookup	Lookup for types that define the invariant characteristics of a PRODUCT CATALOG.
PRODUCT CHARACTERISTIC TYPE	Lookup	List the possible types of PRODUCT characteristics (features, look, and so on).
PRODUCT CHARACTERISTIC VALUE	Reference	Lists the possible values a given PRODUCT characteristic can take, ordered by type.
PRODUCT COVERAGE AREA	Reference	Coverage of a product over geographical area.
PRODUCT COVERAGE GEOGRAPHY DETAIL	Reference	Details the area covered by a given PRODUCT or SERVICE COVERAGE AREA. It relies on third party marketing data associated with given ADDRESS LOCATION Code within a given SERVICE COVERAGE AREA.
PRODUCT FUNCTIONALITY DEPENDENCY	Reference	Assignment of valid EQUIPMENT FUNCTIONALITY and PRODUCT SPECIFICATION VERSIONs to a PRODUCT SPECIFICATION.
PRODUCT GEOGRAPHY ASSIGNMENT	Reference	Association of PRODUCT SPECIFICATION to certain geography or region, usually as available for sales or delivery (for example, Fiber-to-home network is usually only available in big cities in the first phase of development).
PRODUCT LINE	Lookup	Lookup for the ways to classify products according business organization. For example: Wireless, Fixed Line, and so on.
PRODUCT OFFERING	Reference	Defines how a product is brought to the market, including: positioning, pricing, and bundling details. For example: ▪ Tariff Liberty 60, with 60 Free National Minutes, 3 Friends & Family Network Intern Numbers ▪ DSL 32Mbit/s + VoIP Phone + TV Entertainment + Pay TV Soccer Championship one year promotion
PRODUCT OFFERING ASSIGNMENT TYPE	Lookup	Lookup for type of product participation (inclusion) in the market plan. For example: ▪ Use as gift ▪ Main product ▪ Revenue generation service ▪ Base on

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PRODUCT OFFERING AVAILABILITY	Reference	Reference for Available PRODUCT OFFERING in different area or organization business unit.
PRODUCT OFFERING COST	Base	Sub-table of the COST TYPE table. This entity associates a specific cost to a given PRODUCT OFFERING. The cost should not be related to the CAMPAIGN or to the PROMOTION, but just to the PRODUCT OFFERING.
PRODUCT OFFERING DOCUMENT REQUIREMENT	Reference	Defines the customer document requirements of each PRODUCT OFFERING.
PRODUCT OFFERING GEOGRAPHY ASSIGNMENT	Reference	Relationship between PRODUCT OFFERING and Geography. Some PRODUCT SPECIFICATIONs may only be sold in a particular area.
PRODUCT OFFERING GROUP	Reference	Hierarchy level to group the various PRODUCT OFFERINGs. For example: ■ Postpaid "Family" ■ Broadband "Business Unlimited" ■ Prepaid "Freedom"
PRODUCT OFFERING GROUP ASSIGNMENT	Reference	Defines relationship of PRODUCT OFFERINGs to one or more PRODUCT OFFERING GROUPs.
PRODUCT OFFERING GROUP TYPE	Lookup	Lookup for the type code and description for a PRODUCT OFFERING GROUP.
PRODUCT OFFERING MANAGEMENT	Base	The management history of PRODUCT OFFERING by the employee.
PRODUCT OFFERING MARKET SEGMENT AVAILABILITY	Reference	Defines the PRODUCT OFFERING availability over certain Market Segments.
PRODUCT OFFERING ORGANIZATION AVAILABILITY	Reference	Reference for available PRODUCT OFFERING subscriptions in an ORGANIZATION BUSINESS UNIT (store, outlet, and so on).
PRODUCT OFFERING PRICE	Reference	Grouping mechanism for prices and usage limits associated with a PRODUCT SPECIFICATION.
PRODUCT OFFERING PRICE COMPONENT	Reference	Part of a PRODUCT OFFERING PRICE representing a single element of the price. Sub-entities further define these elements. It corresponds to a Rate in some billing systems.
PRODUCT OFFERING PRICE COMPOSITE	Reference	A PRODUCT OFFERING PRICE that is made up of parts. This could correspond to a price in a price list. Do not confuse with PRODUCT OFFERING RATING PLAN which is the complete price list related to fees, usage or events, while PRODUCT OFFERING PRICE could be one or several elements of it.
PRODUCT OFFERING PRICE POLICY ACTION	Reference	The outcome of the successful evaluation of a POLICY STATEMENT (that is, one that has met its condition(s)). The outcome is expressed in terms of the price of a Product Offering. A Prod Offer Price Action is a type of POLICY ACTION.
PRODUCT OFFERING PRICE POLICY CONDITION	Reference	Part of a POLICY STATEMENT representing a single constraint that defines the assessment of the rule. The constraint is specified in terms of one or more Product Offering, Product Specification Type, Product Offering Price, and/or Product Offering Price Component. Prod Offer Price Rule Condition is a type of POLICY CONDITION.
PRODUCT OFFERING PRICE POLICY VALUE	Reference	An amount expressed in money or another medium of exchange that is thought to be a fair exchange for a Product Offering as the result of the evaluation of a POLICY STATEMENT.
PRODUCT OFFERING PRICE POLICY VARIABLE	Reference	A type of POLICY VARIABLE that represents a Product Offering, Product Offering Price, or Product Specification Type.
PRODUCT OFFERING PRICE RECURRING	Reference	Recurring Product Offering Price (Typically for any periodically recurring fees).
PRODUCT OFFERING PRICE RELATIONSHIP	Reference	Defines the relationship between PRODUCT OFFERING PRICE composite (or rating plan) and the product offering price composites or components (usually one uses the other).

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PRODUCT OFFERING PRICE RELATIONSHIP TYPE	Lookup	Type of relationships between PRODUCT OFFERING PRICEs (dependencies, parent child, and so on).
PRODUCT OFFERING PRICE TYPE	Lookup	Type of PRODUCT OFFERING. It can be classified by qualification of targeted customers. For example, a Handset-replacing program can be only for a Platinum Customer, while a long-distance loyalty fee discount might be applicable to everyone.
PRODUCT OFFERING PRODUCT ASSIGNMENT	Reference	The Relationship between PRODUCT OFFERING and PRODUCT. Through this assignment, the PRODUCT OFFERING can be designed based on Product. For example, the movie Avatar can be promoted with Email service. In this example, the operator can run a promotion saying: Subscribing to the Email service in this month gives you the movie Avatar for free (from IPTV or by downloading).
PRODUCT OFFERING PRODUCT OFFERING PRICE ASSIGNMENT	Reference	Association of a default PRODUCT OFFERING PRICE (or price list) to a PRODUCT OFFERING.
PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT	Reference	Assigns Products to PRODUCT OFFERINGs.
PRODUCT OFFERING RATING PLAN	Reference	Group of PRODUCT OFFERING PRICE (composite or not) that are collected as a complete price list (or tariff plan).
PRODUCT OFFERING RATING PLAN DETAIL	Reference	Details of the PRODUCT OFFERING RATING PLAN, such as general rating method type, UNIT OF MEASURE of Usage depending on the PRODUCT SPECIFICATION, and so on. This is the price list itself.
PRODUCT OFFERING RELATIONSHIP	Reference	Defines the relationship between two PRODUCT OFFERINGs. For example: ▪ One PRODUCT OFFERING replaced another one. ▪ One PRODUCT OFFERING is an alternation of another one.
PRODUCT OFFERING RELATIONSHIP TYPE	Reference	Lookup for the types of PRODUCT OFFERING relationships.
PRODUCT OFFERING SUBSTITUTE BY DOC	Reference	Describes how the customer may be given different PRODUCT OFFERING according to available supporting documents they can provide (including income certification, Identification doc, and so on). Tracks under what circumstances what PRODUCT OFFERING is available to customer.
PRODUCT OFFERING TERM	Reference	The detail term value according to each term for the market plan, including monthly charge.
PRODUCT OFFERING TYPE	Lookup	Type of the PRODUCT OFFERING. For example: ▪ Prepaid Wireless ▪ Postpaid Wireless ▪ VAS Special Package
PRODUCT PRICE ALTERATION	Reference	Price alteration applied to the given subscription.
PRODUCT PRICE COMPONENT	Reference	Part of a PRODUCT SUBSCRIPTION PRICEe representing a single element of the price.
PRODUCT PRICE PARTY ROLE	Reference	The relationship between the Party Role and PRODUCT SUBSCRIPTION PRICE to track who managed the PRODUCT SUBSCRIPTION PRICE.
PRODUCT PRODUCT CAPABILITY VALUE ASSIGNMENT	Reference	Association of a value from a given PRODUCT CAPABILITY, in a concrete instance of PRODUCT available for sales (or product subscription). For example, a set top box that is by default Bluetooth enabled for this specific promotion in this shop should have an entry for each set-top box available for sales.
PRODUCT RELATIONSHIP	Reference	Describes the Relationship between concrete PRODUCTs (as instance of PRODUCT SPECIFICATION). Typically, it could be the fact that a specific high value headset has to be sold with this phone available for sales in this shop.
PRODUCT RELATIONSHIP TYPE	Lookup	Lists the possible types of relationships between PRODUCTs.
PRODUCT SPEC CHAR RESOURCE SPEC CHAR ASSIGNMENT	Reference	Relationship between a Product Spec characteristic and its translation on the Resource Spec Characteristics. Entity to deal with the M:N relationship between those two entities.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PRODUCT SPEC CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT	Reference	Direct association (dependence usually) between values of PRODUCT SPECIFICATION CHARACTERISTIC and the value of a given RESOURCE SPECIFICATION CHARACTERISTIC.
PRODUCT SPECIFICATION	Reference	The product provided by the carrier. Product includes COMPOSITE PRODUCT SPECIFICATION information. The composition of a COMPOSITE PRODUCT SPECIFICATION is tracked in the product relationship.
PRODUCT SPECIFICATION ADDITIONAL TEXT	Reference	Additional descriptive text for a given product, that cannot fit in any other existing attributes, or that should be customized for users with different languages.
PRODUCT SPECIFICATION ASSIGNMENT REASON	Lookup	Lookup for valid reason codes and descriptions for PRODUCT SPECIFICATION RELATIONSHIP.
PRODUCT SPECIFICATION CATEGORY	Lookup	Lookup for classification of the PRODUCT SPECIFICATION according to certain common characteristics.
PRODUCT SPECIFICATION CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a Product Specification. The characteristic can be take on a discrete value, such as color, can take on a range of values, (for example, sensitivity of 100-240 mV), or can be derived from a formula (for example, usage time (hrs) = 30 - talk time *3). Certain characteristics, such as color, may be configured during the ordering or some other process.
PRODUCT SPECIFICATION CHARACTERISTIC CONFIGURABLE ASSIGNMENT	Reference	Association of a configurable Characteristics to a PRODUCT SPECIFICATION.
PRODUCT SPECIFICATION CHARACTERISTIC RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between/among Product Spec Characteristics.
PRODUCT SPECIFICATION CHARACTERISTIC USE	Reference	A use of the Characteristic Specification by an Product Specification to which additional properties apply.
PRODUCT SPECIFICATION CHARACTERISTIC VALUE	Reference	A value of a Product Spec Characteristic chosen for a PRODUCT SPECIFICATION that further defines what the PRODUCT SPECIFICATION is.
PRODUCT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between/among Product Spec Characteristics.
PRODUCT SPECIFICATION CHARACTERISTIC VALUE USE	Reference	A use of the Product Catalog Spec Characteristic Value by an Product Catalog Specification to which additional properties (attributes) apply or override the properties of similar properties contained in Product Catalog Spec Characteristic Value.
PRODUCT SPECIFICATION COLUMN	Reference	Various product COLUMNS - To be used for customization only as additional ways of adding invariant characteristics to PRODUCT SPECIFICATION.
PRODUCT SPECIFICATION COST	Base	Sub-table of the COST TYPE table, used to associate a specific cost to a given product.
PRODUCT SPECIFICATION COVERAGE AREA TYPE	Lookup	Lookup for type code and description for PRODUCT COVERAGE AREA. For example: ▪ Available ▪ Denied ▪ Planned
PRODUCT SPECIFICATION COVERAGE GEO DETAIL	Reference	Links detailed geographical locations to a certain PRODUCT COVERAGE AREA.
PRODUCT SPECIFICATION GROUP	Lookup	Categorizations or Groups into which PRODUCTs may be assigned, usually based on similar functionality. For example, Operator may group product as Postpaid Wireless, Prepaid Wireless, Fixed Line Subscription, Calling Card, Paid TV, Broadband, and so on.
PRODUCT SPECIFICATION GROUP ASSIGNMENT	Reference	Defines relationship of PRODUCT SPECIFICATION and one or more PRODUCT SPECIFICATION GROUPs.
PRODUCT SPECIFICATION GROUP TYPE	Lookup	Lookup for codes and descriptions of types of PRODUCT SPECIFICATION GROUPs.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PRODUCT SPECIFICATION HISTORY	Reference	Detailed Product History, as column name, value pairs.
PRODUCT SPECIFICATION MANAGEMENT HISTORY	Base	Defines relationship between EMPLOYEE, PRODUCT SPECIFICATION MANAGEMENT ROLE, and PRODUCT SPECIFICATION.
PRODUCT SPECIFICATION MANAGEMENT REASON	Lookup	Lookup for available reasons for a PRODUCT SPECIFICATION MANAGEMENT HISTORY relationship.
PRODUCT SPECIFICATION MANAGEMENT ROLE	Lookup	Lookup for valid role codes and descriptions an employee may be assigned in PRODUCT SPECIFICATION MANAGEMENT HISTORY. For example: ▪ Product Creation role ▪ Publication to the market (in/out) role ▪ Product Version Update role ▪ Product Testing role
PRODUCT SPECIFICATION NETWORK ASSIGNMENT	Reference	Assigns a PRODUCT SPECIFICATION to one or more NETWORKs.
PRODUCT SPECIFICATION RELATIONSHIP	Reference	Defines a relationship between a PRODUCT SPECIFICATION and a related product.
PRODUCT SPECIFICATION STATUS HISTORY	Base	A history of the Status for a PRODUCT. For example: ▪ New ▪ Broken ▪ Returned ▪ Lost ▪ Reserved ▪ Obsolete
PRODUCT SPECIFICATION STATUS TYPE	Lookup	Lookup for type of specific Product status type. For example: ▪ Purchased from Vendor ▪ In Warehouse ▪ Presented In Shop ▪ In Customer ▪ Broken ▪ Reserved ▪ Free Downloading (for content)
PRODUCT SPECIFICATION TYPE	Lookup	Lookup for the type of the PRODUCT SPECIFICATION. For example: ▪ Item ▪ Service
PRODUCT SPECIFICATION VERSION	Reference	Iteration of a PRODUCT SPECIFICATION created when a minor change is made to the PRODUCT SPECIFICATION setting that does not require creating a new PRODUCT SPECIFICATION.
PRODUCT STATUS HISTORY	Base	A history of the Status for a PRODUCT instance, such as New, Broken, Returned, lost, reserved, obsolete, and so on.
PRODUCT STATUS TYPE	Lookup	Type of specific PRODUCT instance status type, for example: ▪ Purchased from Vendor ▪ In Warehouse ▪ Presented In Shop ▪ In Customer ▪ Broken ▪ Reserved ▪ Free Downloading (for content
PRODUCT SUBSCRIPTION	Reference	The record of customer using a product or service which may be based on a agreement. Customer's subscription to services is the basis of billing and network usage authorization.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PRODUCT SUBSCRIPTION ASSIGNMENT	Reference	Relational assignment of one PRODUCT SUBSCRIPTION to another PRODUCT SUBSCRIPTION. This is optional.
PRODUCT SUBSCRIPTION ASSIGNMENT TYPE	Lookup	Lookup for type codes and descriptions pertaining to PRODUCT SUBSCRIPTION ASSIGNMENT.
PRODUCT SUBSCRIPTION EVENT TYPE	Lookup	Lookup for available type codes and descriptions for Subscription Events.
PRODUCT SUBSCRIPTION PRICE	Reference	Charge information over a specific subscription.
PRODUCT SUBSCRIPTION PRICE RELATIONSHIP	Reference	Relationship between PRODUCT SUBSCRIPTION PRICEs (dependencies, conditions, and so on).
PRODUCT SUBSCRIPTION PRODUCT OFFERING PRICE ASSIGNMENT	Reference	Association of a specific PRODUCT SUBSCRIPTION to a specific PRODUCT OFFERING PRICE. This typically describes how the final price paid (or tariff plan used) by customer is not standard (typical for B2B).
PRODUCT SUBSCRIPTION STATUS	Lookup	Lookup for available code and description for the status of a PRODUCT SUBSCRIPTION. For example: ■ Active ■ Inactive ■ In Debt
PRODUCT SUBSCRIPTION STATUS CATEGORY	Lookup	Lookup for category codes and descriptions used to group or categorize PRODUCT SUBSCRIPTION STATUS.
PRODUCT SUBSCRIPTION STATUS HISTORY	Base	A history of the status of a PRODUCT SUBSCRIPTION. For example: ■ Active ■ Inactive ■ Defaulted ■ Terminated The subscription can simultaneously contain multiple status. For example, the subscription could be Active and In_Debt, or amount below threshold.
PRODUCT SUBSCRIPTION STATUS REASON	Lookup	Lookup for available reason codes and descriptions for defining why a PRODUCT SUBSCRIPTION may be assigned a status.
PRODUCT SUBSCRIPTION STATUS TYPE	Lookup	Type of PRODUCT SUBSCRIPTION STATUS, for grouping purpose at reporting level.
PRODUCT SUBSCRIPTION TERM TYPE	Lookup	Lookup for available type codes and descriptions pertaining to PRODUCT SUBSCRIPTIONs and PRODUCT SPECIFICATIONs to which Values may be assigned. For example: ■ Monetary Amount ■ Period ■ Premium ■ Initial Points ■ Cancellation Policy
PRODUCT SUBSCRIPTION TYPE	Lookup	Lookup for available type codes and descriptions for PRODUCT SUBSCRIPTIONs. For example: ■ Prepaid Wireless ■ Fixed Line ■ Broadband
PRODUCT USERNAME	Reference	The usernames assigned to customer for given products. For example: ■ Instant Messenger ■ Web Meeting ■ Remoted (online) Storage ■ Web Self Service Account

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PROJECT	Reference	The business activities, TASKs, may be categorized into a specific Project according to their common purpose. For example: ■ 3G WCDMA network upgrade Phase II ■ LTE Trial Network
PROJECT ELEMENT	Reference	The business activity which may happen to the operator. It is the super type of PROJECT and TASKs.
PROMOTION	Reference	The promotion reflects the tactics that an operator undertakes to generate increased incremental sales or usage volume for a specific product within a promotional event. Promotions are frequently communicated as part of a marketing campaign to ensure that awareness is generated with the target audience.
PROMOTION CLUSTER USAGE	Base	Assigns a particular CUSTOMER SEGMENT, cluster, to a given PROMOTION or list of promotions. The customer segments are generated by certain analytic applications, including Oracle Mining, and this assignment tracks the usage of customer segments in the PROMOTION.
PROMOTION CONTACT LIST UTILIZATION	Base	Defines the relationship between a CONTACT LIST and a PROMOTION: the contact list has been used for a marketing campaign to which a specific promotion was proposed.
PROMOTION COST	Base	Subtype of the COST, which is used to associate a specific cost uniquely associated to a given promotion. For example, a rent fee for the location where the operator performs the promotion.
PROMOTION MANAGEMENT HISTORY	Base	A history of campaign party role about management of a campaign EPISODE.
PROMOTION MESSAGE RENDERING	Reference	Details regarding each CAMPAIGN MESSAGE broadcast through a MEDIA OBJECT.
PROMOTION PRODUCT CATALOG ASSIGNMENT	Reference	Associates PRODUCT CATALOGs to a PROMOTION.
PROMOTION PRODUCT OFFERING ASSIGNMENT	Reference	Associates PRODUCT OFFERINGs to a PROMOTION, typically, when a given PRODUCT OFFERING will be offered by the PROMOTION only during a certain period.
PROMOTION RELATIONSHIP	Reference	Defines the relationship between two PROMOTIONs.
PROMOTION RESULT TYPE	Lookup	Lookup for the prospect reaction to a specific PROMOTION during a sales campaign. For example: ■ Accepted ■ Not interested ■ Interested but not accepted ■ Not Interested but other product sold
PROMOTION SALES CHANNEL ASSIGNMENT	Reference	The allocation of PROMOTION resources or actions onto each SALES CHANNEL.
PROMOTION SVM FACTOR	Derived	Specifies target promotion factors retrieved from SVM mining model.
PROMOTION SVM ROC	Derived	Mining target entity to store target promotion ROC details calculated using SVM mining model.
PROMOTION TERM TYPE	Lookup	Lookup for valid type codes and descriptions of Promotion Term associated with a PROMOTION TERM VALUE. For example: ■ Number of customers ■ Period ■ Planning ■ Selling amount ■ Planning contracts number

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PROMOTION TERM VALUE	Base	Assigns PROMOTION TERM TYPE to a PROMOTION with a value corresponding to the Term Type. For example: ▪ Maximum Number of customers ▪ Period ▪ Planning selling amount ▪ Planning contracts number
PROMOTION TYPE	Lookup	Lookup for the type of PROMOTION (each for either a limited time or for the agreement duration). For example: ▪ Monthly Fee Discount ▪ Additional Free Service ▪ Free Installation Cost ▪ Give-away Equipment ▪ Free Equipment Rental ▪ Limited Extra Usage for Free
PROPERTY	Reference	A parcel of land with defined legal boundaries. This is a concrete Geographic Location entity.
PROPERTY ADDRESS LOCATION ASSIGNMENT	Reference	Defines the relationship of which property is using which address location to identify the property.
PROPOSAL	Reference	The proposals made available to prospects in the promotion. It could be a upsell offer like selling a new product, or a retention program (Free Minutes for Longer agreement period).
PROPOSAL RELATIONSHIP	Reference	The relationship between two PROPOSALs.
PROSPECT	Reference	An individual, collection of individuals, company, or public institution that does not currently purchase merchandise or services, but who may in the future. A prospect may also be a CUSTOMER of one PRODUCT SPECIFICATION (already purchased) that does not currently purchase another PRODUCT SPECIFICATION (may purchase). A prospect has no recorded relationship with the provider.
PROSPECT INDIVIDUAL	Reference	Attributes of an individual PROSPECT, one who is not an organization.
PROSPECT ORGANIZATION	Reference	Attributes of a prospect organization.
PROSPECT PRIORITY TYPE	Lookup	The different priorities which can be assigned to the prospect and prospect interests.
PROSPECT QUALITY SCORE TYPE	Reference	Lookup for type of quality scores which can be applied to PROSPECT. For example: ▪ Income ▪ Buying Probability
PROSPECT QUALITY SCORE VALUE	Reference	The quality score value assigned to each prospect under different types of criteria.
PROSPECT REJECT REASON	Lookup	The reason to explain why an offer or PROPOSAL is rejected by the prospect.
PROSPECT RESTRICTED INFORMATION	Reference	Similar to CUSTOMER RESTRICTED INFO, but applied only to PROSPECT. It contains age, marital status, and so on.
PROTOCOL	Reference	A formal set of rules and conventions that governs how two entities exchange information (usually over one or more types of network media). This entity represents Protocols that can be managed. Represents a convenient aggregation point for defining how Protocols are managed and used.
PTV FULL CHANNEL ACTIVATION	Base	Pay TV full channel activation event.
PTV QPI SERVICE EVENT	Base	The detail of QPI service.
PTV USAGE EVENT	Base	Customer usage of PAY TV SERVICE.
PUBLICATION	Reference	Publication to which the MEDIA OBJECT used in CAMPAIGN belongs.
PUBLICATION TYPE	Lookup	Lookup for code and description describing the type of publication.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PURCHASE ORDER	Base	All the purchase orders that are raised on suppliers by the purchasing unit of a business organization (purchasing organization). The types of purchase orders can be many and would typically include one-time, regular, blanket, release, and so on.
PURCHASE ORDER LINE ITEM	Base	Specifies purchase order line Item information.
PURCHASE ORDER LINE ITEM STATE	Base	Specifies the state change history of each PURCHASE ORDER LINE ITEM.
PURCHASE ORDER STATE	Base	Defines the records of a PURCHASE ORDER LINE ITEM being in a particular state for a period of time.
PURCHASE ORDER STATE TYPE	Lookup	Lookup for the different types of state a purchase order or a line item may be at. For example: ▪ Paid ▪ Shipped ▪ Returned
PV BIT STRING VALUE	Reference	Represents a single or a set of bit string values. A bit string is defined as a string whose individual characters have the value "0" or "1". No other values are allowed.
PV BOOLEAN VALUE	Reference	Represents a Boolean value (TRUE or FALSE).
PV INTEGER VALUE	Reference	Provides a list of integer or integer range values. Each integer can be of an arbitrary size.
PV IP ADDRESS VALUE	Reference	Provides an unordered list of IPv4 addresses, IPv6 addresses, ranges of IPv4 addresses, ranges of IPv6 addresses, and host names to be matched against in a policy condition. The format of each string is specified according to the ABNF definition of an IPv4 address. If a host name is matched against another valid IP address, the match is done by resolving the host name into a valid IPv4 or IPv6 address. Matching host names against each other, like matching IP addresses (of the same type) against each other, is done using a string comparison. Matching an IPv4 address against an IPv6 address fails.
PV MAC ADDRESS VALUE	Reference	Represents a single string value, or a set of string values. Each value can have wildcards.
PV STRING VALUE	Reference	Represents a single string value, or a set of string values. Each value can have wildcards.
PVAR 1QCOS VARIABLE	Reference	Represents using the IEEE 802.1q Class of Service value (which is three bits) as part of a condition expression.
PVAR BIT STRING VARIABLE	Reference	Represent a single or set of bit string variable. Thus, only Bit String Value classes can be used in the value portion of the condition expression with this POLICY VARIABLE.
PVAR DN VARIABLE	Reference	Represents a single or set of Distinguished Name variable, which may include wildcards. This variable type is specifically defined for retrieving LDAP-based data.
PVAR DSCP VARIABLE	Reference	Represents using the value of the DSCP byte as part of a condition expression.
PVAR ETHER TYPE VARIABLE	Reference	Represents using the value of the Ethertype protocol number of Ethernet frames as part of a condition expression.
PVAR IP PROTOCOL VARIABLE	Reference	Represents using the value of the IP protocol number as part of a condition expression.
PVAR IPTOS VARIABLE	Reference	Represents using the value of the IP ToS byte as part of a condition expression.
PVAR IPV4 VARIABLE	Reference	Represents using the value of IPv4 source and/or destination addresses as part of a condition expression.
PVAR IPV6 FLOW VARIABLE	Reference	Represents using the value of the flow ID in the specified packet header as part of a condition expression.
PVAR IPV6 VARIABLE	Reference	Represents using the value of IPv4 source and/or destination addresses as part of a condition expression.
PVAR IPVERSION VARIABLE	Reference	Represents filtering on a particular version of the IP protocol as part of a condition expression.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
PVAR MAC VARIABLE	Reference	Represent a single or set of string variable. Each can have wildcards.
PVAR PORT VARIABLE	Reference	Represents using the value of port source and/or destination fields as part of a condition expression.
PVAR STRING VARIABLE	Reference	Represents a single or set of string variable. Each can have wildcards. Thus, only String Value classes can be used in the value portion of the condition expression with this POLICY VARIABLE.
PVAR VLAN VARIABLE	Reference	Represents using the IEEE 802.1q VLAN ID value (which is 12 bits) as part of a condition expression.
QOS SERVICE	Reference	Represents a generic specification for defining the different types of Sub-Services that are required to implement a specific type of QoS. This enables business rules to be mapped to the network, and define services that the network provides. A QoS Service can be thought of as an aggregation of sub-services needed to realize the functionality specified by, for example, a SERVICE BUNDLE. This enables the network administrator to map business rules, as specified in a more abstract object or set of objects, to the network, and the network designer to engineer the network such that the network provides different functions for different types of applications. QoS Services are a type of RESOURCE FACING SERVICE and are bundled together using SERVICE BUNDLEs. QoS Services can be turned into templates using SERVICE BUNDLE SPECIFICATIONs. The QoS Service itself is a means to coordinate different technology-specific approaches to implementing QoS, such as DiffServ, ToS, and IEEE 802.x. As such, the QOS Service entity is an abstract entity.
QOS SERVICE RELATIONSHIP	Reference	Relationships between QOS SERVICE, to be able to build M:N relationships between those.
QOS SERVICE SPEC TYPE	Lookup	The QOS SERVICE spec type.
QUARTER HOUR	Reference	Quarter Hour as defined in Time Hierarchy.
QUARTER TO DATE TRANSFORMATION	Reference	Cumulative time transformations at the quarter level.
QUARTER TRANSFORMATION	Reference	Transformation with respect to a quarter. For example: ▪ This quarter last year ▪ This year last quarter
QUEUE SERVICE	Reference	Queuing can be thought of as the act of delaying of packets inside a device before they are transmitted to the next device. This is often called congestion management. There are many different algorithms to do this task, each having different purposes, different implementation (and therefore programming) complexities, and different uses. Since the semantics of these algorithms are very different, each algorithm is a subtype of QUEUE SERVICE.
RACK	Reference	A Rack is a type of Secure Holder that represents an enclosure in which Equipment Holders, such as CHASSIS, are placed. Typically a Rack is nothing more than the enclosure, and all the functioning componentry is packaged in the CHASSIS. The logical identifier of a Rack is not typically associated with the Device (that is, the Network Resource). Compare this to either a Bay or a Shelf, whose logical identifier IS associated with the Device. Thus, the Rack is explicitly not a part of the logical model of a network. The Rack typically serves as the "master enclosure" for CHASSIS, Shelves and Bays. In addition, Racks can have multiple instances of multiple Devices mounted in them.
RATABLE UNIT MEASUREMENT	Lookup	Lookup to specify the valid candidate Ratable Unit Measurement (RUM)s for each event type. For example: ▪ Duration ▪ Size ▪ Count
RATED UDR EVENT	Base	Contains rating information attached to raw or mediated UDR EVENT.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
RATING METHOD TYPE	Lookup	Lookup for Rating Method Type code and description. For example: ▪ Flat Rate ▪ Tier Rating ▪ Threshold Rating
RAW MMS EVENT	Base	The raw MMS EVENTas acquired on network element.
RAW WIRELESS CALL EVENT	Base	The raw WIRELESS CALL EVENT.
REASON	Lookup	General "REASON" entity that lists all possible reasons for whatever events. The REASON CATEGORY helps for determining which list of reasons is to be used in which case. This entity is not used in Oracle Communications Data Model.
REASON CATEGORY	Lookup	Grouping of REASONs dealing with the same event, or process, or source. It can be used for reporting purpose or to choose the right list of possible reasons in a given case. This entity is not used in Oracle Communications Data Model.
RECHARGE REVENUE SLAB	Lookup	Lookup for the bands of revenue earned from the sale of recharge coupons, for prepaid, which is called recharge revenue. The recharge revenue is to be analyzed for all currently active prepaid subscribers and for all churned subscribers until the time of termination. For example, the revenue can be banded by creating slabs for recharge revenue of $0-$25, $25-$50, and so on.
RED DROPPER SERVICE	Reference	Lists the RED Dropper Services, that represents the ability to drop network traffic using a Random Early Detection (RED) type of algorithm. The purpose of a RED algorithm is to avoid congestion (as opposed to managing congestion).
RED SERVICE ELEMENT	Reference	Lists the Random Early Detection (RED) elements, that define the drop probability, weighting, and other important parameters for distinguishing one traffic type from another traffic type for applying different dropping behavior. If the algorithm used is RED, then by definition there is only one entry in this entity (the REDServiceElement).
REDEMPTION EVENT	Base	Event related to the Redemption or use of LOYALTY PROGRAM points into something (through transfer, purchase when associated with a retail line item, recharge, and so on).
REDEMPTION MO AGGR	Aggregate	Monthly summary of LOYALTY PROGRAM redemption statistics.
REDEMPTION TYPE	Lookup	Lookup for redemption type that maintains all possible point redemption types and organizes redemption data by redemption type for analysis purposes.
REFERRING CATEGORY	Reference	User-defined referrer category.
REFERRING CATEGORY LEVEL	Reference	User-defined referrer category level.
REFERRING SITE	Reference	Web page containing the referring link.
REFERRING URL	Reference	URL of the REFERRING SITE.
RELATION TYPE	Lookup	List all Possible Types of Relationship. This entity is not used in Oracle Communications Data Model.
RELIGION	Lookup	This lookup for religion. For example: ▪ Christianity ▪ Jewish ▪ Islamic ▪ Hinduism
RELIGIOUS AFFILIATION	Reference	Lookup for religious affiliations.
REMOTE RADIO UNIT	Reference	The Remote Radio Unit is part of Distributed Node B base station system, which manages the signals from the antennas and communicate with BBU. Using Fiber connected RRU, the antenna can be deployed far from the BBU location.
REPLACEMENT SET	Reference	Set of MANAGED ENTITYs that must be replaced as a unit.
RESOURCE	Reference	All elements belonging to the network (normally, only of the Communications Service Provider) to deliver the communication services.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
RESOURCE ALARM	Base	Alarms with any (somehow managed) resources. It shall store information about the alarm details or condition.
RESOURCE ALARM COMMENT	Base	Comments or additional text coming with the RESOURCE ALARM. It could be external weather condition or anything not easily storable in the RESOURCE ALARM description.
RESOURCE ALARM RELATIONSHIP	Base	Relationships between RESOURCE ALARMs, typically cascading (one triggers the other).
RESOURCE ALARM RESOURCE ASSIGNMENT	Base	Association of a given RESOURCE ALARM to a given RESOURCE. The type of assignment allows to determine whether it is the Alarm Trigger (or control source) or Source itself that caused this RESOURCE ALARM (the origin).
RESOURCE ALARM TRACKING RECORD ASSIGNMENT	Base	Association of Tracking Record of End-Users with a given RESOURCE ALARM.
RESOURCE BUSINESS INTERACTION ROLE	Base	The business interaction role which can be assigned by a RESOURCE.
RESOURCE CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of an Resource Specification. The characteristic can take on a discrete value, such as color, can take on a range of values, for example, sensitivity of 100-240 mV, or can be derived from a formula for example, usage time (hrs) = 30 - talk time *3. Certain characteristics, such as color, may be configured during the ordering or some other process.
RESOURCE CHARACTERISTIC ASSIGNMENT	Reference	A use of the RESOURCE CHARACTERISTIC by a concrete RESOURCE. It could be restricted to those to which additional properties (attributes) apply or override the properties of similar properties contained in RESOURCE CHARACTERISTIC.
RESOURCE CHARACTERISTIC RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between or among RESOURCE CHARACTERISTICs.
RESOURCE CHARACTERISTIC VALUE	Reference	A number or text that can be assigned to an RESOURCE SPECIFICATION CHARACTERISTIC.
RESOURCE CHARACTERISTIC VALUE ASSIGNMENT	Reference	A use of the RESOURCE CHARACTERISTIC VALUE by a RESOURCE. One could limit to those which additional properties (attributes) apply or override the properties of similar properties contained in RESOURCE CHARACTERISTIC VALUE.
RESOURCE CHARACTERISTIC VALUE RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between/among RESOURCE CHARACTERISTIC VALUEs.
RESOURCE COST	Base	Subtype of COST, which associate a specific cost to a given network element. For example, purchase, maintenance, recycling.
RESOURCE FACING SERVICE	Reference	This is the base entity for defining Resource Facing Services. A Resource Facing Service is an abstraction that defines the characteristics and behavior of a particular SERVICE that is not directly seen or purchased by the Customer. Resource Facing Services are "internal" Services that are required to support a CUSTOMER FACING SERVICE. The Customer purchases CUSTOMER FACING SERVICEs, and is not aware of the Resource Facing Services which support the CUSTOMER FACING SERVICE(s) that is being purchased directly by the Customer. For example, a VPN is an example of a CUSTOMER FACING SERVICE. This particular type of VPN may require BGP to support it. Customers do not purchase BGP, and hopefully are not even aware that BGP is running. Therefore, BGP is an example of a Resource Facing Service.
RESOURCE FACING SERVICE ROLE	Reference	Defines a SERVICE in terms of a set of SERVICE ROLEs for a RESOURCE FACING SERVICE. This is the base entity for defining SERVICE ROLEs that represent the variable characteristics of a RESOURCE FACING SERVICE in terms of roles that this SERVICE plays. This entity enables the RESOURCE FACING SERVICE to be managed abstractly using SERVICE ROLEs. The Resource Facing Service Role also helps define the SERVICE in terms of the functions that it has or provides.
RESOURCE FACING SERVICE SPEC VERSION	Reference	Defines historical versions of RESOURCE FACING SERVICE SPECIFICATION.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
RESOURCE FACING SERVICE SPECIFICATION	Reference	This is the base entity for defining Resource Facing Service Specs. A Resource Facing Service Spec is an abstraction that defines the invariant characteristics and behavior of a particular RESOURCE FACING SERVICE. This is not seen by the Customer. However, it is required by one or more CUSTOMER FACING SERVICE SPECIFICATIONs in order for them to function correctly. The invariant portion serves as a single common basis to build a set of variable RESOURCE FACING SERVICEs that all use this common Resource Facing Service Spec.
RESOURCE FACING SERVICE SPECIFICATION ATOMIC	Reference	This entity defines a standalone RESOURCE FACING SERVICE that meets the needs of a particular CUSTOMER FACING SERVICE. Standalone RESOURCE FACING SERVICEs may be linked directly to a CUSTOMER FACING SERVICE or aggregated by a Resource Facing Service Composite.
RESOURCE FACING SERVICE SPECIFICATION COMPOSITE	Reference	This entity defines an integrated set of RESOURCE FACING SERVICE that collectively meets the needs of a CUSTOMER FACING SERVICE. For example, the Customer may have requested "GoldService", which is a SERVICE PACKAGE that defines a set of SERVICE BUNDLEs, each of which has its own QoS. A set of Resource Facing Service Products can then be defined, one for each different SERVICE BUNDLE instance, that provides the required QoS for each SERVICE BUNDLE instance.
RESOURCE FACING SERVICE SPECIFICATION ROLE	Reference	This class defines a SERVICE SPECIFICATION, in terms of a set of ServiceSpecificationRoles, for a ResourceFacingService. This is the base class for defining ServiceSpecificationRoles that are used to represent the invariant characteristics of a ResourceFacingService. This enables the ResourceFacingService to be managed abstractly using ServiceSpecificationRoles. It also helps define the SERVICE SPECIFICATION in terms of the functions that it has or provides.
RESOURCE FAULT ASSIGNMENT	Base	Defines which RESOURCEs are affected by a given network (or RESOURCE related to the network) fault.
RESOURCE HISTORY	Base	A history of the Status for a RESOURCE, such as New, Broken, Returned, lost,reserved(for VIP customer). When agreement terminates, the customer may return the RESOURCE or declare it as lost and possibly pay some penalty for it.
RESOURCE INVOLVEMENT ROLE	Reference	A role a business entity (such as PARTY ROLE or RESOURCE ROLE) plays in the relationship for a RESOURCE. For example: user, owner, and so forth. This is different than the role a resource plays.
RESOURCE ORDER	Base	A type of Request that represents a Service Order's services decomposed into the Resources on which the services will be provisioned.
RESOURCE ORDER LINE ITEM	Base	The purpose for the RESOURCE ORDER expressed in terms of a RESOURCE SPECIFICATION or a RESOURCE.
RESOURCE PARTY ASSOCIATION	Reference	Defines which PARTY produced, owns, or is using which RESOURCE. The PARTY could a customer, employee, or vendor (initial vendor, and maintenance).
RESOURCE PARTY MANAGEMENT	Reference	Defines the relationship between PARTY and its managed RESOURCEs.
RESOURCE PERFORMANCE	Reference	A measure of the manner in which a Resource is functioning.
RESOURCE PERFORMANCE SPEC	Lookup	The invariant characteristics of a measure of the manner in which a Resource is functioning.
RESOURCE PORT	Reference	The Resource Port covers both logical and physical port together and manage as a single entity.
RESOURCE RELATIONSHIP	Reference	The relationship between two Network Resources, for example, in GSM, multiple BTSs are connected to a BSC, in Broadband Service, several customer lines may be connected to a DSL MODEM.
RESOURCE RELATIONSHIP TYPE	Lookup	The Type of Network Resource Relationship. For example, "Pair Connected", "Master-Subordinate", "Primary-Backup", and so on.
RESOURCE ROLE	Reference	This entity defines the concept of various types of roles associated with Resources (both physical and logical).

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
RESOURCE ROLE ASSIGNMENT	Reference	This abstract entity is defined to map the class that implements the semantics of the "ElementTakesOnRoles" aggregation. It also serves as the parent class for defining the classes that implement the RolesDescribePhysical Element, RolesDescribeLogical Element, and RolesDescribeCompoundl Element aggregations. These three classes are named RolesDescribePhysical ElementDetails, RolesDescribeLogical ElementDetails, and RolesDescribeCompoundl ElementDetailsm respectively.
RESOURCE ROLE PARTY ASSIGNMENT	Reference	Defines the relationship between RESOURCE ROLE and PARTY.
RESOURCE ROLE PARTY ROLE DETAILS	Reference	Details of the relationship (typically dependency) between RESOURCE ROLE and PARTY ROLE (Customer, provider, and so on).
RESOURCE ROLE SPECIFICATION	Reference	This is the abstract base entity for all Resource Role Specification subclasses. The Network Resource Role Spec enables relationships to be defined between it and other network element roles. This helps prevent relationship explosion. The Network Resource Role Spec defines the invariant attributes, methods, relationships, and constraints of various types of roles associated with Resources (both physical and logical).
RESOURCE SPECIFICATION	Reference	This entity defines the invariant characteristics and behavior (attributes, methods, constraints, and relationships) of a Managed Resource.
RESOURCE SPECIFICATION CATEGORY	Lookup	Category of resource to further classify resource specification type (grouping). Available dimension for customization.
RESOURCE SPECIFICATION CHARACTERISTIC	Reference	A characteristic quality or distinctive feature of a RESOURCE SPECIFICATION. The characteristic can be a discrete value, such as color, can take on a range of values, (for example, sensitivity of 100-240 mV), or can be derived from a formula (for example, usage time (hrs) = 30 - talk time *3).
RESOURCE SPECIFICATION CHARACTERISTIC ASSIGNMENT	Reference	A use (or assignment) of the RESOURCE SPECIFICATION CHARACTERISTIC by a SERVICE SPECIFICATION which additional properties (attributes) apply or override the properties of similar properties contained in RESOURCE SPECIFICATION CHARACTERISTIC. This aggregation defines the set of characteristics, or distinguishing features, of a RESOURCE SPECIFICATION.
RESOURCE SPECIFICATION CHARACTERISTIC RELATIONSHIP	Reference	Relationship between RESOURCE SPECIFICATION CHARACTERISTICs (ParentChild, Exclusion, Requirement, and so on).
RESOURCE SPECIFICATION CHARACTERISTIC VALUE	Reference	The values (a number or text) that can be assigned to a RESOURCE SPECIFICATION CHARACTERISTIC.
RESOURCE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT	Reference	Association of Values to Characteristics of Resource Specification. It should list all possible values a Resource Spec Characteristic can have.
RESOURCE SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP	Reference	Relationship between Resource Spec Char Value (Typically, dependency like exclusion, requirement, and so on).
RESOURCE SPECIFICATION PERF ROLE	Reference	A role that a Resource Specification plays in defining a PERFORMANCE SPECIFICATION.
RESOURCE SPECIFICATION TYPE	Lookup	Categorize sets of RESOURCE SPECIFICATIONs such as ROUTER, SWITCH, and so on.
RESOURCE SPECIFICATION VERSION	Reference	Defines differences in attributes, methods, relationships, and/or constraints that characterize this particular RESOURCE SPECIFICATION, but which are not enough to warrant creating a new RESOURCE SPECIFICATION.
RESOURCE SPECIFICATION VERSION USAGE	Reference	Defines the semantics of the RESOURCE SPECIFICATION aggregation. Specifically, it enables an application to define which set of versions of this RESOURCE SPECIFICATION are appropriate for a given task (which RESOURCE SPECIFICATION VERSION should be used when). This aggregation represents the set of versions of this RESOURCE SPECIFICATION.
RESOURCE STATE HISTORY	Base	Tracks the state history of each resource, for example, power off, in use, decommissioned, and so on.
RESOURCE STATE REASON	Lookup	Lookup for reasons why the RESOURCE is at certain state. For example, power failure, earthquake, new purchase, and so on.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
RESOURCE STATE TYPE	Lookup	Lookup of the Resource State of a given RESOURCE, like power off, installed, decommissioned, and so on.
RESOURCE USAGE EVENT TYPE	Lookup	A detailed description of a RESOURCE or network element usage event (for example, a purchase or a lease of a resource).
RETAIL SALES RETURN ITEM DAY DRVD	Derived	Summary of SKU ITEM sales and returns by day, ORGANIZATION BUSINESS UNIT, and optionally by promotional campaign.
RETAIL SALES RETURN LINE ITEM	Base	A line item component of a RETAIL TRANSACTION that records the exchange in ownership of a merchandise item (for example, a sale or return) or the sale or refund related to a service.
RETAIL STORE	Reference	Subtype of internal organization. This usually lists the shops where the communications service provider presents the products and sells directly to customers. A retail store may contain several SELLING LOCATIONs.
RETAIL TENDER LINE ITEM	Base	A line item component of a RETAIL TRANSACTION that records the settlement of that transaction with an offsetting, valid tender type.
RETAIL TERMINAL STATUS	Lookup	
RETAIL TOUCHPOINT	Reference	Place from where transactions take place. Meeting point for customer and retail organization. RETAIL TOUCHPOINT can be both logical and physical. ▪ Call Center: A department within a retail organization or a third-party organization that handles telephone sales service. ▪ Store Workstation: A device used as an as interface to any retail business function, for example, the capture and storage of RETAIL TRANSACTION and operational performance reporting.
RETAIL TRANSACTION	Base	A type of transaction that records the business conducted between the retail enterprise and another party involving the exchange in ownership or accountability, or both, for merchandise or tender, or both, or involving the exchange of tender for services.
RETAIL TRANSACTION LINE ITEM	Base	A detail line item of a RETAIL TRANSACTION that records the business conducted between the organization store and another party involving the exchange in ownership or accountability, or both, for merchandise or tender, or both, or involving the exchange of tender for services.
RETAIL TRANSACTION LINE ITEM TYPE	Lookup	Lookup for available types of RETAIL TRANSACTION LINE ITEM.
RETAIL TYPE	Lookup	Lookup for types of retail processing. For example: ▪ Regular ▪ Promotion ▪ Clearance
REVENUE DAY DRVD	Derived	Daily summary of any revenue stream associated with a PRODUCT OFFERING and PRODUCT SPECIFICATION. It considers Prepaid (Expired and effectively Used Prepaid Amount), Postpaid (Invoiced or not) and other revenue streams. All measures are summable over time or any other dimensions. This entity is critical for the computation of any revenue related KPI, and in particular ARPU.
REVENUE MONTH AGGR	Aggregate	Monthly summary of REVENUE DAY DRVD. All measures are summable for a given product specification and product offering hierarchy level. Summing all measures over all dimensions without restricting to specific level of hierarchy would lead to wrong result (double counting).
RF CARRIER	Reference	Reference list of all wireless or Radio Frequency (RF) carriers.
RF NETWORK CAPACITY DAY DRVD	Derived	Daily aggregate of Radio Frequency (RF) Network Capacity utilization statistics. Radio Frequency (RF) interfaces are present at two levels in the network: ▪ RF Interface between CELL and the Mobile Station ▪ RF interface between MSC and the BSS
RF NETWORK CAPACITY MONTH AGGR	Aggregate	Monthly summary of Radio Frequency (RF) Network Capacity utilization statistics.
RFMP METHOD	Lookup	Lookup for different methods of calculating the Recency, Frequency, Monetary, and Profitability (RFMP) scores.

Table 2–42 (Cont.) O to R Entity Descriptions

Entity Name	Type	Description
RFS SPEC VERSION DETAIL	Reference	Defines the semantics of the modifiesRFSSpec aggregation. Specifically, it enables an application to define which set of versions of this Resource Facing Service Specification are appropriate for a given task.
RINGTONE	Reference	Sub-table of, by which a customer can download music as a ringtone for the phone.
ROAMING TYPE	Lookup	Lookup for the various roaming types to classify the calls. For example: ▪ (Standard) Outgoing Roaming ▪ (Standard) Incoming Roaming ▪ Inland Outgoing Roaming ▪ Inland Incoming Roaming
ROLE	Reference	This is an abstract base entity that defines the concept of various types of roles.
ROLES HIERARCHY	Reference	Hierarchy among the job roles within an organization.
ROOT ENTITY	Reference	Provides an abstraction for most policy entities. The root entity properties enable you to name, describe, and identify all objects, manageable and unmanageable, in the environment.
ROOT ENTITY TYPE	Lookup	Abstract entity that defines a root entity in TMF SID, such as Customer, Product, and so on.
ROUND ROBIN SCHEDULING SERVICE	Reference	Scheduler that serves each active QUEUE SERVICE, one after another. A QUEUE SERVICE is defined to be active if it has any packets that are enqueued.
ROUTED PROTOCOL	Reference	This entity represents different types of routed protocols that can be managed. Routed protocols are those protocols that can be routed by a router. Specifically, the router must be able to interpret the logical internetwork as specified by that routed protocol. Represents a convenient aggregation point for defining how routed protocols are managed and used.
ROUTER	Reference	A type of physical device which performs routing function in IP-based network.
ROUTING DEVICE	Reference	In IN Network or Wireless, many different type of devices such as VLR, HLR, SCP servers are utilized in network to decide the call routing. This entity tracks the device information.
ROUTING PROTOCOL	Reference	This entity represents different types of routing protocols that can be managed. Routing protocols are used to determine how information is routed (for example, how it traverses an intermediate system). This entity represents a convenient aggregation point for defining how routing protocols are managed and used.
ROUTING ROLE	Reference	An abstracts entity showing the different routing capabilities necessary for a LOGICAL DEVICE to have. This entity helps to simplify the modeling of network devices, which have many different sets of capabilities. For example, most routers can do routing, forwarding, and firewalling of traffic. By modeling these capabilities as three roles, router functionality is both abstracted as well as categorized, so that the differences between routing done by a router and routing done by an L3 switch can be differentiated.

Table 2–43 S to V Entity Descriptions

Entity Name	Type	Description
SALE OR RETURN ACTION	Lookup	A code denoting how the item is being treated in the line item. For example: ■ Layaway ■ Order For Delivery ■ Previous Layaway ■ Return Item ■ Sale Item ■ Return ■ Sale
SALES CAMPAIGN SUMMARY MONTH AGGR	Aggregate	Monthly summary of Sales Campaign results by PRODUCT OFFERING, CAMPAIGN CHANNEL, PROMOTION RESULT TYPE.
SALES CHANNEL	Reference	Channel used to communicate with parties for sales purposes. For example: ■ Representatives ■ Partner-Dealers ■ Direct Dealers Sales channels are represented by the channel level, which also becomes the lowest level for the channel dimension.
SALES CHANNEL COMMISSION PLAN ASSIGNMENT	Base	Defines a history of which SALES CHANNEL is applicable to which SALES COMMISSION PLAN.
SALES CHANNEL REPRESENTATIVE	Reference	The sales representative who sells the product to the customer. For example: ■ Sales Representative in the operator owned shops. ■ Direct sales representatives in the call center. ■ Dealer for a partner.
SALES COMMISSION DETAIL	Base	The sales commission earned by sales agent because of the agreement.
SALES COMMISSION PAYROLL	Base	The sales commission issued to the sales agent.
SALES COMMISSION PLAN	Reference	The sales commission plan for particular COMPOSITE PRODUCT SPECIFICATION and sales agent level.
SALES COMMISSION PLAN DETAIL	Reference	Details about the SALES COMMISSION PLAN per PRODUCT OFFERING and PROMOTIONs, including sales quota and commission rate.
SALES REPRESENTATIVE STATISTICS DRVD	Derived	Monthly summary of sales representative performance measured by sales, commission, and so on.
SCD2	Reference	Abstracted entity to provide SCD2 capability for all its children.
SCD2 MULTILANGUAGE	Lookup	Super entity to provide SCD2 and LANGUAGE support for all its children.
SCHEDULING SERVICE	Reference	A Scheduler is used in the network forwarding path to determine how output queues are serviced. This service uses the QUEUE SERVICEs (that are defined in this entity) to store packets and then services these queues according to a pre-defined algorithm. When there is no congestion, the net effect is simply FIFO. However, when there is congestion, scheduling is the primary QoS action component.
SCHEDULING SERVICE ATOMIC	Reference	Defines a SCHEDULING SERVICE as an independent (that is, standalone) TRAFFIC CONDITIONING SERVICE. This is fundamentally different than the SCHEDULING SERVICE COMPOSITE, which models a SCHEDULING SERVICE as the combination of other existing SCHEDULING SERVICEs (as well as providing its own extensions).
SCHEDULING SERVICE COMPOSITE	Reference	This entity models a SCHEDULING SERVICE as a set of coordinated SCHEDULING SERVICEs. This is fundamentally different than the SCHEDULING SERVICE ATOMIC, which is used to model a SCHEDULING SERVICE as a standalone TRAFFIC CONDITIONING SERVICE.
SCRIPT	Reference	A list of specific groupings of questions or statements presented to individuals during a survey.
SCRIPT QUESTION	Reference	Initiative questions documents the questions asked of the customer as part of the initiative.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SCRIPT QUESTION TYPE	Lookup	The domain of values used to group script items. For example: ■ 1 = Yes or No answers ■ 2 = Provide a Value ■ 3 = Give a Range ■ 4 = Free form answer
SEARCH	Reference	Lists the possible types of "Search" over the website, as part of a WEB VISIT and NAVIGATION.
SEASON	Lookup	Seasons and their attributes. Seasons are arbitrary periods around which some providers organize their buying and selling patterns. Each day should fall within no more than one season.
SECOND	Reference	Second hierarchy level as defined in Time Hierarchy.
SECURE HOLDER	Reference	This entity is a type of Holder Composite that serves as the parent for the RACK and CHASSIS entities. This entity generalizes common properties that apply to RACKs and CHASSIS.
SECURITY REQUIRED TYPE	Lookup	Lookup for type and description of security requirements that may be associated with an ITEM SPECIFICATION.
SEGMENT CRITERIA	Reference	Minimum and Maximum scores for each segment associated with an ACCOUNT SEGMENT or CUSTOMER SEGMENT.
SEGMENT TYPE	Lookup	Lookup for type codes and descriptions used to define ACCOUNT SEGMENTATION MODEL or CUSTOMER SEGMENTATION MODEL.
SELLING LOCATION	Reference	Physical location in a RETAIL STORE specifically dedicated to selling or displaying merchandise.
SELLING LOCATION TYPE	Lookup	Lookup for type code and description used to define a SELLING LOCATION: For example: ■ Store ■ Floor ■ Aisle ■ Shelf
SERVER	Reference	Lists the Server (Hardware and Software) on which applications can run or users can log in.
SERVER FARM	Reference	Lists and details the Farms of SERVERs available (when meaningful from a network, offering, analytics or end-user perspective)
SERVER STATUS	Lookup	Possible Global Status of the SERVER from an external point of view (on, off, frozen, starting, shutting down).
SERVICE	Reference	Service is an internal technical presentation of available PRODUCT SPECIFICATIONs to the end user. Different customers may subscribe to different services under the same product name. For example, for a service of 4MB Broadband, the service may be implemented by ADSL service or by FTTH (Optical Fiber).
SERVICE ADDRESS LOCATION ASSIGNMENT	Reference	Collects the history of the assignment of a given SERVICE to a given location.
SERVICE BUNDLE	Reference	Conceptually, a Service Bundle is thought of as a collection of Resource Facing Service Specifications. This entity enables the needs of different sets of Resource Facing Service Specifications to be grouped together - hence, the name "bundle". Since these are Resource Facing Specifications, they define reusable templates for implementing the Resource Facing Services that are required by a particular CUSTOMER FACING SERVICE (as represented by a SERVICE PACKAGE). Service Bundles were designed to define a set of Class of Service specifications that were required by a CUSTOMER FACING SERVICE to work together. A SERVICE PACKAGE is the entity that models the requirements of the CUSTOMER FACING SERVICE. Thus, SERVICE PACKAGEs can specify different packaging of CUSTOMER FACING SERVICE that are sold to the Customer, and Service Bundles specify the set of Resource Facing Services that each CUSTOMER FACING SERVICE requires. Service Bundles are a natural way to implement the requirements of a SERVICE PACKAGE, and are related to a SERVICE PACKAGE through the Service Package Uses Service Bundles aggregation.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SERVICE BUNDLE SPECIFICATION	Reference	A Service Bundle Spec is the base entity for defining the different classes of bundled Resource Facing Service Specs that a Customer (or some other appropriate PARTY ROLE) can subscribe to. The preferred way to represent a Customer subscription of this nature is by defining a Service Bundle Spec that defines the set of Resource Facing Service Specs that are being used. Conceptually, a Service Bundle Spec is thought of as a collection to enable the needs of different sets of Resource Facing Service Specs to be grouped together. The "bundle" conveys the concept of grouped Service Specs that are related. Since these are Resource Facing Specifications, they define reusable templates for implementing the Resource Facing Services that are required by a particular CUSTOMER FACING SERVICE (as represented by a SERVICE PACKAGE).
SERVICE BUNDLE SPECIFICATION ATOMIC	Reference	A Service Bundle Spec Atomic object models different SERVICE BUNDLE SPECIFICATIONs as a set of different instances of individual, independent Resource Facing Service Specs. This is fundamentally different than the SERVICE BUNDLE SPECIFICATION COMPOSITE entity, which models one SERVICE BUNDLE SPECIFICATION COMPOSITE as the combination of other existing SERVICE PACKAGE SPECIFICATIONs (as well as providing its own extensions). For example, assume that the Gold Package service offering (which is a subclass of Service Package, not SERVICE PACKAGE SPECIFICATION), requires two different CoS Service instances. This may be because the Gold Package service offering has two different groups of applications that require two different types of traffic conditioning mechanisms. This is represented by a Service Bundle Spec Atomic object. Now, assume that the Platinum Package service offering includes the Gold Package service offering and a new service offering requiring a new set of traffic conditioning mechanisms. This requires a second Service Bundle Spec Atomic object, as users want to reuse the first Service Bundle Spec Atomic object. These could be aggregated to form an instance of a SERVICE BUNDLE SPECIFICATION COMPOSITE entity.
SERVICE BUNDLE SPECIFICATION COMPOSITE	Reference	A Service Bundle Spec Composite defines an integrated set of SERVICE BUNDLE SPECIFICATIONs that collectively meets the needs of a Resource Facing Service Spec Composite entity. This is fundamentally different than the Service Bundle Spec Atomic object, which models one Service Bundle Spec as the combination of other existing SERVICE PACKAGE SPECIFICATIONs (as well as providing its own extensions). For example, assume that the Gold Package service offering (which is a subclass of SERVICE PACKAGE, not SERVICE PACKAGE SPECIFICATION), requires two different CoS Service instances. This may be because the Gold Package service offering has two different groups of applications that require two different types of traffic conditioning mechanisms. This is represented by a SERVICE BUNDLE SPECIFICATION ATOMIC entity. Now, assume that the Platinum Package service offering includes the Gold Package service offering and a new service offering requiring a new set of traffic conditioning mechanisms. This requires a second SERVICE BUNDLE SPECIFICATION ATOMIC entity, as you want to reuse the first SERVICE BUNDLE SPECIFICATION ATOMIC entity. These could be aggregated to form an instance of a Service Bundle Spec Composite object.
SERVICE CATEGORY	Lookup	Lookup for category of SERVICE. For example: ■ Customer facing service ■ Resource facing service ■ Composite service
SERVICE CHARACTERISTIC VALUE	Reference	Define a set of attributes, each of which can be assigned to a corresponding set of attributes in a ServiceCharacteristic object. The values of the attributes in the ServiceCharacteristicValue Entity describe the values of the attributes that a corresponding ServiceCharacteristic object can take on.
SERVICE CHARACTERISTIC VALUE PRODUCT CHARACTERISTIC VALUE ASSIGNMENT	Reference	This is how a list of SERVICE CHARACTERISTIC VALUE (of a service in use) is turned into a specific list of PRODUCT CHARACTERISTIC VALUE (Product or Product Subscription in Use).
SERVICE CHARACTERISTIC VALUE RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between/among SERVICE SPECIFICATION CHARACTERISTIC VALUEs.
SERVICE CLASS	Lookup	The class of the services. For QoS reason, the call can be divided into different classes (Basically might be home line or business line, or others). The Service Class can also be divided by other aspect, line utilizing Circuit Line or IP packets, and so on.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SERVICE CLASS TYPE	Lookup	Lookup for the type or base to define the SERVICE CLASS.
SERVICE COVERAGE AREA	Reference	The geographic area covered by service provider with certain product combination. Service areas are defined so that service providers can determine the demographic / psychographic / population data the geography served by the network.
SERVICE COVERAGE AREA TYPE	Lookup	Lookup for type code and description for SERVICE COVERAGE AREA.
SERVICE COVERAGE GEO DETAIL	Reference	The detail about service coverage on lowest level. For example: ▪ Areas covered by a specific BTS ▪ Building covered by Broadband Copper line or Fiber line.
SERVICE DEPENDENCY	Reference	The Dependency among services. One service may depend on others to function, for example, GSM Roaming depends on HLR service to determine its subscription status, likewise, multiple ADSL services depends on the core IP network to transfer the information.
SERVICE DEVICE INTERFACE ASSIGNMENT	Reference	Captures the semantics involved in representing how a particular Resource Facing Service is implemented on a specific DEVICE INTERFACE.
SERVICE EQUIPMENT ASSIGNMENT	Reference	Assignments between NETWORK TOUCHPOINT, EQUIPMENT, and SERVICE according to which SERVICE was tied to which NETWORK TOUCHPOINT through which EQUIPMENT INSTANCE.
SERVICE LEVEL AGREEMENT	Reference	A special type of agreement which keeps the agreement between a customer and the service provider specifying the service quality, including availability, bandwidth, and so on. The detailed terms of the service level agreement are specified in AGREEMENT TERM.
SERVICE LEVEL AGREEMENT ITEM	Reference	Detail line items for a SERVICE LEVEL AGREEMENT.
SERVICE LEVEL AGREEMENT RELATIONSHIP	Reference	Relationships between service level agreement (typically parent child or mutually exclusive).
SERVICE LEVEL AGREEMENT TYPE	Lookup	Lookup for type of all service levels. For example, the classification of service levels can be: Gold, Silver, Bronze. Each product may have different Service Level Agreement settings.
SERVICE LEVEL AGREEMENT VIOLATION	Base	The customer case of each violation to the SERVICE LEVEL AGREEMENT.
SERVICE LEVEL OBJECTIVE	Reference	Quality goal for a Service Level Specification defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.
SERVICE LEVEL SPEC APPLICABILITY	Reference	The time of day or days during which a Service Level Specification, Service Level Objective, or Service Level Spec Consequence is relent or not.
SERVICE LEVEL SPEC CONSEQUENCE	Reference	An action that takes place when a SERVICE LEVEL OBJECTIVE is not met.
SERVICE LEVEL SPEC PARAMETER	Reference	Specifies a variable whose value determines compliance with a Service Level Objective.
SERVICE LEVEL SPECIFICATION	Reference	A pre-defined or negotiated set of service level objectives, and consequences that occur, if the objectives are not met.
SERVICE LEVEL UNMET CONSEQUENCE TYPE	Lookup	Lookup for the type of consequences if the service level requirement is not met.
SERVICE LR DEPENDENCY	Reference	This is an association entity. The Service LR Dependency represents the semantics (for example, exists, uses, and other relationships) that exist when a LOGICAL RESOURCE helps to supply or to support a particular Resource Facing Service.
SERVICE ORDER	Base	A type of Request that represents the products in a Customer Order decomposed into the services through which the products are realized.
SERVICE ORDER LINE ITEM	Base	The purpose for the SERVICE ORDER expressed in terms of a SERVICE SPECIFICATION or a Service.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SERVICE PACKAGE	Reference	A Service Package is derived from an associated SERVICE PACKAGE SPECIFICATION. The SERVICE PACKAGE SPECIFICATION defines the invariant attributes, methods, relationships, and constraints for all Service Package instances that are derived from it. This entity enables each individual Service Package to add its own application-specific changeable characteristics and behavior. There is no specific aggregation used to relate a particular Service Package to the SERVICE PACKAGE SPECIFICATION that it is derived from. This is because the SERVICE PACKAGE SPECIFICATION and Service Package both inherit the Specifies Service aggregation, and at this (the business level) view, there are no new semantics that are required to represent this relationship. Finally, while the composite pattern could be applied to Service Package, there is no perceived need to do so. Multiple Service Packages will simply be aggregated by a Product Bundle, and appear as separate Product Components.
SERVICE PACKAGE BUNDLE DETAIL	Reference	Defines how a type of service bundle can support other types of SERVICE PACKAGEs.
SERVICE PACKAGE SPECIFICATION	Reference	A Service Package Spec defines the concept of bundling a set of different CUSTOMER FACING SERVICE SPECIFICATIONs to meet the functionality specified by one or more Product Specifications. This entity enables the specification of the invariant characteristics and behavior of these CUSTOMER FACING SERVICEs, so that multiple PRODUCT SPECIFICATIONs can be built from their associated Product Specification. Treating this set of CUSTOMER FACING SERVICE SPECIFICATIONs as a single object is important for building complex Services, such as a VPN. This entity enables a single Product Item, derived ultimately from a Product Specification, to be offered to the Customer, even though in reality the Product Item consists of a set of different CUSTOMER FACING SERVICEs that must work to provide the functionality that the Customer needs.
SERVICE PACKAGE SPECIFICATION ATOMIC	Reference	A Service Package Spec Atomic object models different SERVICE PACKAGE SPECIFICATIONs as a set of different instances of individual, independent CUSTOMER FACING SERVICE SPECIFICATIONs. This is fundamentally different than the Service Package Spec Composite object, which models one SERVICE PACKAGE SPECIFICATION as the combination of other existing SERVICE PACKAGE SPECIFICATIONs (as well as providing its own extensions). For example, Gold Package Spec is an individual packaging of services, and is therefore an instance of the Service Package Spec Atomic entity. If there was a service offering that combined the services defined by the Gold Package Spec with those defined by another Service Package Spec Atomic entity, such as the Platinum Package Spec, then that combination could be aggregated, forming an instance of the Service Package Spec Composite entity.
SERVICE PACKAGE SPECIFICATION COMPOSITE	Reference	This models different packages as the combination of other existing SERVICE PACKAGEs (as well as providing its own extensions). This is fundamentally different than Service Package Atomic, which models different SERVICE PACKAGEs as a set of different instances.
SERVICE PARTY MANAGEMENT HISTORY	Reference	Keeps track of the history of Service Management by a given PARTY.
SERVICE PERFORMANCE	Reference	A measure of the manner in which a SERVICE is functioning.
SERVICE PERFORMANCE SPEC	Lookup	The invariant characteristics of a measure of the manner in which a SERVICE is functioning.
SERVICE PR DEPENDENCY	Reference	This is an association entity. The Service PR Dependency represents the semantics (for example, exists, uses, and other relationships) that exist when a PHYSICAL RESOURCE helps to supply or to support a particular RESOURCE FACING SERVICE.
SERVICE PROBLEM	Base	Problem associated with a service delivery (of any type, whatever the reason). This entity is physicalized and problem analysis should be done from this level.
SERVICE PROBLEM CHAR TYPE	Lookup	Type of SERVICE PROBLEM CHARACTERISTICs, grouping the typical parameters that always come with SERVICE PROBLEMs.
SERVICE PROBLEM CHARACTERISTIC	Reference	Lists the general Characteristics available (or required) for SERVICE PROBLEM to be better defined or described.
SERVICE PROBLEM CHARACTERISTIC VALUE	Reference	Lists the possible Values a SERVICE PROBLEM CHARACTERISTIC may take.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SERVICE PROBLEM DAY DRVD	Derived	Summarized information at Day level of any SERVICE PROBLEM occurring or still not solved for further analysis.
SERVICE PROBLEM RESOURCE ALARM ASSIGNMENT	Base	Association of SERVICE PROBLEMs and RESOURCE ALARM related to those service problems.
SERVICE PROBLEM SERVICE ASSIGNMENT	Base	Relationship between the services (a priori or effectively) affected by a service problem.
SERVICE PROBLEM SUBSCRIPTION ASSIGNMENT	Base	Tracks how many product subscriptions are affected by the service problem or network fault, as a measure of criticality.
SERVICE REQUEST	Base	Sub-type of Party Interaction Thread, dedicated to a service request raised from a customer, which may involves a customer field service support order, or changing customer contact information.
SERVICE RESOURCE ASSIGNMENT	Reference	Associates a resource or network element to a service as a way of describing how the service is supported.
SERVICE ROLE	Reference	This entity defines a SERVICE in terms of a set of roles. The roles are then used to characterize the functionality of the Service, regardless of whether it is a Resource- or a customer-facing service. Service Roles represent the functionality of a Service, and as such are a mix of the invariant and changeable characteristics and behavior of a Service. Representing a SERVICE in terms of Service Roles enables the functionality of the SERVICE to be defined independently of Business Actor, PHYSICAL RESOURCE, LOGICAL RESOURCE, or other Services.
SERVICE SPECIFICATION	Reference	Specifies the service specification hierarchy. All SERVICE are characterized as either being directly visible and usable by a CUSTOMER or not. This gives rise to the two subclasses of SERVICE: CUSTOMER FACING SERVICE and RESOURCE FACING SERVICE. However, each instance of a SERVICE is made up of changeable as well as invariant attributes, methods, relationships and constraints. A SERVICE SPECIFICATION defines the invariant characteristics of a SERVICE. It can be conceptually thought of as a template that different SERVICE instances can be instantiated from. Each of these SERVICE instances will have the same invariant characteristics. However, the other characteristics of the instantiated SERVICE will be specific to each instance.
SERVICE SPECIFICATION ATOMIC	Reference	This entity defines SERVICE SPECIFICATIONs that do not have any subordinate SERVICE SPECIFICATIONs. In other words, a ServiceSpecAtomic is a standalone SERVICE SPECIFICATION, and does not require any supporting SERVICE SPECIFICATIONs to define the invariant characteristics of Services that it serves as a template for.
SERVICE SPECIFICATION CHAR RESOURCE SPEC CHAR ASSIGNMENT	Reference	Relationship between a SERVICE SPECIFICATION CHARACTERISTIC and its translation on the RESOURCE SPECIFICATION CHARACTERISTICs. Entity to deal with the M:N relationship between those two entities.
SERVICE SPECIFICATION CHAR USE	Reference	A use of the SERVICE SPECIFICATION CHARACTERISTIC by an SERVICE SPECIFICATION to which additional properties (attributes) apply or override the properties of similar properties contained in SERVICE SPECIFICATION CHARACTERISTIC.
SERVICE SPECIFICATION CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT	Reference	Relationship between the value of a characteristic of a Service Specification with the value of a related Resource Specification Characteristic. Typically, it is a dependence relationship.
SERVICE SPECIFICATION CHAR VALUE RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between or among SERVICE SPECIFICATION CHARACTERISTIC VALUEs.
SERVICE SPECIFICATION CHAR VALUE USE	Reference	Describes a use of the SERVICE SPECIFICATION CHARACTERISTIC VALUE by an ENTITY SPECIFICATION to which additional properties (attributes) apply or override the properties of similar properties contained in SERVICE SPECIFICATION CHARACTERISTIC VALUE.
SERVICE SPECIFICATION CHARACTERISTIC	Reference	This entity represents the key features of this Service Specification. For example, bandwidth is characteristic of many different types of services; if bandwidth is important (for example, from the point-of-view of a Customer purchasing this Service) then bandwidth would be a Service Characteristic for that particular SERVICE. Note that in this example, bandwidth would have to be defined as an invariant feature that multiple Services use. Otherwise, it should be defined as a Service Characteristic.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SERVICE SPECIFICATION CHARACTERISTIC RELATIONSHIP	Reference	A aggregation, migration, substitution, dependency, or exclusivity relationship between or among SERVICE SPECIFICATION CHARACTERISTICs.
SERVICE SPECIFICATION CHARACTERISTIC VALUE	Reference	A SERVICE SPECIFICATION CHARACTERISTIC VALUE defines a set of attributes, each of which can be assigned to a corresponding set of attributes in a SERVICE SPECIFICATION CHARACTERISTIC. The values of the attributes in the SERVICE SPECIFICATION CHARACTERISTIC VALUE describe the values of the attributes that a corresponding SERVICE SPECIFICATION CHARACTERISTIC can take on.
SERVICE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT	Reference	A SERVICE SPECIFICATION CHARACTERISTIC VALUE defines a set of attributes, each of which can be assigned to a corresponding set of attributes in a SERVICE SPECIFICATION CHARACTERISTIC. The values of the attributes in the SERVICE SPECIFICATION CHARACTERISTIC VALUE describe the values of the attributes that a corresponding SERVICE SPECIFICATION CHARACTERISTIC can take on.
SERVICE SPECIFICATION COMPOSITE	Reference	This entity defines SERVICE SPECIFICATIONs that are formed by aggregating other SERVICE SPECIFICATIONs. The types of SERVICE SPECIFICATIONs that are aggregated may be ServiceSpecAtomic or SERVICE SPECIFICATION COMPOSITEs. A SERVICE SPECIFICATION COMPOSITE collectively defines all of the invariant characteristics of Services that it serves as a template for.
SERVICE SPECIFICATION PRODUCT SPECIFICATION RELATIONSHIP	Reference	Defines the relationship between Service Spec and Product, for example, to track which Product requires which Service Spec.
SERVICE SPECIFICATION RELATIONSHIP	Reference	Relationship between SERVICE SPECIFICATIONs (dependencies, exclusion, and so on).
SERVICE SPECIFICATION RESOURCE SPEC RELATIONSHIP	Reference	Defines the relationship between SERVICE SPECIFICATION and Resource Spec. For example, to track which Resource Specifications are required for a certain type of SERVICE SPECIFICATION to work.
SERVICE SPECIFICATION ROLE	Reference	This entity defines a SERVICE SPECIFICATION in terms of a set of roles. The roles are then used to characterize the invariant functionality of the Service, regardless of whether it is a resource- or a customer-facing service. Service Specification Roles represent the invariant functionality of a Service. Representing a SERVICE in terms of Service Specification Roles enables the functionality of the SERVICE to be defined independently of Business Actor, network element, or other Services.
SERVICE SPECIFICATION TYPE	Lookup	Type ofSERVICE SPECIFICATION, for grouping purposes.
SERVICE SPECIFICATION VERSION	Reference	This entity represents the ability to distinguish between different instances of SERVICE SPECIFICATIONs. It represents a particular form or variety of a SERVICE SPECIFICATION that is different from others or from the original. The form represents differences in attributes, methods, relationships, and/or constraints that characterize this particular SERVICE SPECIFICATION, but which are not enough to warrant creating a new SERVICE SPECIFICATION.
SERVICE STATUS	Lookup	Lookup for all status types of a SERVICE. For example: ■ Active ■ Inactive
SERVICE STATUS CATEGORY	Lookup	A category that categorizes similar SERVICE STATUS.
SERVICE STATUS HISTORY	Base	A history of the Status of a SERVICE. Such as active, inactive, defaulted, terminated.
SERVICE STATUS REASON	Lookup	Lookup for reasons why a SERVICE has a certain status.
SERVICE TYPE	Lookup	Lookup for types of SERVICE. For example, values should be from a subtype of: CUSTOMER FACING SERVICE RESOURCE FACING SERVICE COMPOSITE SERVICE
SERVICE USAGE TYPE	Lookup	A detailed description of a service usage event (for example, a purchase or a usage of a service).

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SERVICE UTILIZATION DETAIL	Reference	Represents the semantics (for example, exists, uses, and other relationships) that exist when a PHYSICAL RESOURCE is used to help supply or support a particular SERVICE.
SESSION	Base	Describes a session from a computing perspective rather than from an UDR EVENT perspective (for example GPRS Session).
SESSION TYPE	Lookup	Lists the possible types of SESSIONs that will be dealt with for grouping purpose.
SET TOP BOX	Reference	Set-top box for Television service.
SET TOP BOX MODEL	Reference	Set-top box model specification.
SETTING ATTRIBUTE IMPORTANCE	Data Mining	Specifies settings of Attribute Importance algorithm.
SETTING CHURN DECISION TREE	Data Mining	Specifies settings of Decision Tree algorithm for customer churn analysis.
SETTING CHURN DECISION TREE COST	Data Mining	Specifies the cost of misclassification for customer churn analysis using Decision Tree algorithm.
SETTING CHURN SVM	Data Mining	Specifies settings of SVM algorithm for customer churn analysis.
SETTING CHURN SVM PRIORS	Data Mining	Specifies prior probabilities for customer churn analysis using SVM algorithm.
SETTING LIFE TIME VALUE SVM	Data Mining	Specifies settings of GLMR algorithm for customer life time value and life time survival analysis.
SETTING PROFILE KMEANS	Data Mining	Specifies settings of K-Means algorithm for customer profiling.
SETTING SENTIMENT SVM	Data Mining	Specifies settings of SVM algorithm for sentiment analysis.
SETTING USER ALL	Data Mining	Specifies storing parameter settings for mining.
SHAPER SERVICE	Reference	Regulates traffic flow to an average bit rate, taking into account any bursting capability that is desired. Normally, a shaper service includes buffering. Thus, any packets that cannot be transmitted are queued.
SHELF	Reference	A Shelf is a type of Equipment Holder that is designed to hold various types of Equipment. The Shelf has a logical identifier that is often relative to the Bay that contains the Shelf (that is, the unique identifier for a Shelf is often a concatenation of the network element identifier, the Bay identifier, and the Shelf identifier). The logical identifier of a Shelf is typically associated with the Device (that is, the Network Resource). Compare this to a RACK, whose logical identifier is not associated with the Device. Thus, the Shelf is explicitly a part of the logical model of a network. Often, a Shelf contains not just pluggable components (for example, CARDs, Power Supplies, and so on) but also cabling (for example, both fiber and wire), with optional connections to external fuse, alarm, and other types of panels.
SIC ASSIGNMENT	Reference	Assigns one industry to another industry in Standard Industrial Classification (SIC).
SIC ASSIGNMENT REASON	Lookup	Lookup for reason codes and descriptions that describe why two industries are assigned in the Standard Industrial Classification (SIC).
SIC CLASSIFICATION	Lookup	A classification group for Standard Industrial Classification (SIC). For example: A. Division A: Agriculture, Forestry, And Fishing: ■ Major Group 01: Agricultural Production Crops ■ Major Group 02: Agriculture Production Livestock and Animal Specialties ■ Major Group 07: Agricultural Services ■ Major Group 08: Forestry ■ Major Group 09: Fishing, Hunting, and Trapping
SIC DIVISION	Reference	The base level of SIC classification. For more information see SIC CLASSIFICATION.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SIC INDUSTRY GROUP	Lookup	The middle level of the industry classification hierarchy.
SIGNALING PROTOCOL	Reference	This entity represents different types of signaling protocols that can be managed. Signaling protocols are used to convey information along a specific path. Represents a convenient aggregation point for defining how signaling protocols are managed and used.
SIM CARD	Reference	A subscriber identity module (SIM) on a removable SIM card securely stores the service-subscriber key (IMSI) used to identify a subscriber on mobile telephony devices (such as a mobile phone). Also used for UIM (User Identity Module) in the CDMA (Code Division Multiple Access) network.
SIM CARD ACCESS METHOD ASSIGNMENT	Reference	A history of relationship between ACCESS METHOD and SIM CARD. Many access methods can be assigned to one SIM Card at any given time.
SIM CARD ACCESS METHOD REASON	Lookup	Lookup for valid reason codes and descriptions to describe relationship between SIM CARD and ACCESS METHOD.
SIM CARD ACTIVATION REASON	Lookup	Lookup for valid reason codes and descriptions describing why a SIM CARD has been activated.
SIM CARD ACTIVATION TYPE	Lookup	Usage states that a SIM CARD may be in. For example: ■ PP: Pre-Provisioned ■ BU: Barred from Usage
SIM CARD HANDSET ASSIGNMENT	Reference	A history of relationship between a HANDSET INSTANCE and a SIM CARD. SIM Cards can be swapped between handsets.
SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT	Reference	A history of relationship between the SIM CARD and a PRODUCT SUBSCRIPTION.
SIM CARD PRODUCT SUBSCRIPTION REASON	Lookup	A reason why a SIM CARD is associated with a PRODUCT SUBSCRIPTION.
SIM CARD TYPE	Lookup	Lookup for the types of SIM CARD. For example: ■ 16k ■ 32k ■ 64k ■ 128k
SITE	Reference	Site is any geographical location of interest to the telecom operator.
SITE INTERFACE ROLE	Reference	This role defines a Customer Site - that is, an interface to a set of Customers. The objective of this role is to enable the definition of Policies such that all Customers in this Site can receive the same Services. For example, routing announcements, traffic marking, and so on.
SITE ROLE	Reference	The part played by a SITE in a given context with any characteristics, such as expected pattern of behavior, attributes, and/or associations that it entails.
SITE TYPE	Lookup	Lookup of all possible types of sites of interest to the service provider.
SKILL TYPE	Lookup	Lookup of available skill types for an individual party.
SKU ITEM	Reference	Stock Keeping Unit or unit identification, typically the UPC, used to track store inventory and sales. Each SKU is associated with an item, variant, product line, bundle, service, fee, or attachment. ■ Aggregate SKU: Subtype of SKU that is an aggregation of one or more constituent SKU. The constituent items may be sold individually. ■ Group Select: An item, which is a group of items, only one of which is sold. The choice of which item is made by the customer at the POS. ■ Prepared: A sub-type that is manufactured (or prepared). ■ Service SKU: A type of SKU that provides a detailed identifier and description for a service offered for a sale to customer in the retail store. Service SKU also identifies and describes rental items and other tangible items that a customer uses for a contracted period, but not purchased. ■ Stock: A unit of merchandise that may be sold to a customer or used.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SKU TYPE	Lookup	Lookup indicating which subtype the SKU ITEM is. For example: ■ Stock Item ■ Service Item ■ Prepared Item ■ Group Select Item ■ Aggregate Item
SLOT	Reference	This is a concrete entity that has two main purposes. One is to model the ability of a hosting board to accept a daughter card to add or complete the base functionality of the hosting board. The second is to represent the different expansion slots supported by a CHASSIS.
SLOT RELATIONSHIP	Reference	This entity represents the semantics of the Adjacent Slots association. The SLOT Relationship includes two attributes that are used to provide general layout information describing the SLOTs in the Equipment Holder. The first, Distance Between Slots, defines the distance in inches between two adjacent SLOTs in the Physical Package. The second, Shared Slots, is a boolean attribute that describes the dependency between two SLOTs that are located near each other. Sometimes, the two SLOTs are so close that if one of these SLOTs is populated by an adapter CARD, the other SLOT must be left empty. If this attribute is set to TRUE, then the second SLOT must be left unoccupied.
SMS EVENT	Base	Subtype of UDR EVENT, which collects all information of product usage of Short Message Service (SMS).
SMS RATING PLAN	Reference	Subtype of PRODUCT OFFERING PRICE, reserved for Short Message Service (SMS), and also Multimedia Messaging Service (MMS), service.
SMS SERVICE	Reference	Sub-type of SERVICE, containing the information relative to the SMS service.
SOC JOB	Reference	Entity holds the most detailed level of Standard Occupational Classification (SOC) job classification. For example: ■ 15-0000 Computer and Mathematical Occupations ■ 15-1000 Computer Specialists ■ 15-1010 Computer and Information Scientists, Research ■ 15-1011 Computer and Information Scientists, Research ■ 15-1020 Computer Programmers ■ 15-1021 Computer Programmers ■ 15-1030 Computer Software Engineers ■ 15-1031 Computer Software Engineers, Applications ■ 15-1032 Computer Software Engineers, Systems Software ■ 15-1040 Computer Support Specialists ■ 15-1041 Computer Support Specialists
SOC JOB CATEGORY	Reference	Lookups for the categories in the Standard Occupational Classification (SOC) in which each occupation in the SOC is placed. The hierarchy in SOC is typically: NN-MMM0. These job categories correspond to the 449 "broad occupations" or categories. For example: ■ 13-2010 Accountants and Auditors ■ 13-2020 Appraisers and Assessors of Real Estate ■ 13-2030 Budget Analysts ■ 13-2040 Credit Analysts ■ 13-2050 Financial Analysts and Advisors ■ 13-2060 Financial Examiners
SOC JOB GROUP	Reference	Lookups for the groups in the Standard Occupational Classification (SOC) in which each occupation in the SOC is placed. The hierarchy of SOC is typically: NN-MM00. For example: ■ 13-1000 Business Operations Specialists ■ 13-2000 Financial Specialists

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SOC JOB MAJOR GROUP	Reference	Lookups from the (23) major groups in the Standard Occupational Classification (SOC) in which each occupation in the SOC is placed. The hierarchy of SOC is typically: NN-0000. For example: ■ 11-0000 Management Occupations ■ 13-0000 Business and Financial Operations Occupations ■ 15-0000 Computer and Mathematical Occupations ■ 17-0000 Architecture and Engineering Occupations ■ 19-0000 Life, Physical, and Social Science Occupations ■ 21-0000 Community and Social Services Occupations ■ 23-0000 Legal Occupations
SOFTWARE	Reference	This entity represents software. Software represents the set of user visible functions and processes that are contained in a device. The Has Software Features association defines software that is associated with a LOGICAL DEVICE, such as programs and operating systems. Since this software can be associated with devices and/or device components, this association is defined between the roots of the two classes. Software may be nested within other software, thereby creating a containment relationship (which is part of the system view). Currently, the subclasses of this class reflect user-facing features. For example, features that are manageable, configurable, and executable by users and applications. Internationalization and Language functionality are supported by creating a Software Uses Language association to the Language classes.
SOFTWARE ATOMIC	Reference	This entity represents atomic units of software that are individually manageable and do not form composite, or nested, software units. From a finite state machine view, each Software Atomic element is not just individually manageable, but is also installable, executable, and runnable. In addition, each Software Atomic element can be a FRU. This is the super-class for creating concrete subclasses that define particular functionality. For example, a device driver, or software that implements MPLS as part of a larger routing software package.
SOFTWARE COMMAND	Reference	Software Commands describe the sets of features that are programmable by a particular PARTY ROLE. For example, a Developer, or Network Operator, and in rare cases, an End User. This should not be confused with Capabilities. Capabilities define what features and functions are available at a given moment for the RESOURCE. Thus, Software Commands represent the specific commands that are available in a device, whereas Capabilities represent higher-level generic functions available in a RESOURCE. For example, the ability to perform BGP routing is a Capability, whereas the actual commands used to implement BGP routing are Software Commands.
SOFTWARE COMPOSITE	Reference	This entity represents software units that are made up of other software units (that is, instances of this entity and the Software Atomic base entity). This provides the semantics of collecting a set of components, each of which is individually manageable, and being able to manage the set of objects as a whole. An example is an operating system - this is manageable as a unit, but consists of individually manageable components. This containment is modeled using the Contains Software Components composition. From a finite state machine view, each Software Composite element is manageable, installable, executable, and runnable. In addition, each Software Composite element can be a FRU. This is the super-class for creating concrete subclasses that define groups of functionality. For example, set of features that work to provide application-level functionality to the end-user.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SOFTWARE FEATURE SETS	Reference	Software Feature Sets describe the groups of Software Commands that distinguish a particular release of Software. The Software Commands contained in the Software Feature Sets are programmable by a particular PARTY ROLE (for example, a Developer, or Network Operator, and in rare cases and End User). Often, Software Feature Sets are used by the manufacturer to define a custom or semi-custom build of software, or are provided as a set of options that are orderable by the Customer. This should not be confused with Capabilities. Capabilities define what features and functions are available at a given moment for the RESOURCE. Thus, Software Feature Sets represent groups of commands that are available in a device, whereas Capabilities represent higher-level generic functions available in a RESOURCE. For example, the ability to perform BGP routing is a Capability, whereas the actual commands used to implement BGP routing are Software Commands that reside in one or more Software Feature Sets. Hence, Software Feature Sets may or may not offer BGP as a programmable feature.
SOFTWARE OS RELATIONSHIP	Reference	This is an association class, and defines the semantics of the Software Interacts With OS association. This is a complex class, and consequently only a few simple attributes are shown in this viewpoint in order for the reader to get a flavor of the types of parameters defined in this entity.
SOURCE SYSTEM	Reference	System of record from which information was loaded.
SOURCE SYSTEM KEY MAPPING	Reference	Track Key of the PARTY, customer or employee, in the originating source system. This key can track information back to the source management system.
SOURCE SYSTEM TYPE	Lookup	Lookup for type code and description used to describe SOURCE SYSTEM. For example: ■ Competitor Customer Listing ■ Third-Party Purchased Mailing List ■ CRM List ■ Billing System List
SPECIFICATION	Reference	This is an entity that defines the invariant characteristics, attributes, methods, and relationships, of a managed entity.
SPECIFICATION ROLE	Reference	This is the entity for all Role Specification subclasses.
SPECTRUM COVERAGE AREA	Reference	The geographic coverage area of a given wireless spectrum.
SPNM	Lookup	Lists the Special Numbers available to (or used by) customers.
SPNM OTHER PARTY NUMBER	Reference	Defines the relationship between a special number and a third Party Operator Numbers, with grouping attributes for reporting purpose.
STANDARD MARKER SERVICE	Reference	Defines the most common type of marker, which sets existing bits in specific fields of a packet or frame.
STATISTICAL ENTITY	Reference	Super entity to model statistics. Subtype of ROOT ENTITY.
STORE EFFICIENCY MONTH AGGR	Aggregate	Monthly summary of shop efficiency details including customer and transaction counts, wait times, and so on, by ORGANIZATION BUSINESS UNIT and GEOGRAPHY REGION.
STORE EFFICIENCY DAY DRVD	Derived	Daily aggregate of shop efficiency details including customer and transaction counts, wait times, and so on, by ORGANIZATION BUSINESS UNIT and GEOGRAPHY REGION.
STREET NAME	Reference	Names (and history) associated with GEOGRAPHY STREETs for address location.
STREET SEGMENT	Reference	Defines various segments of a street when necessary. Street Segment is a subtype of MARKET AREA. Is linked to a GEOGRAPHY STREET.
STREET SEGMENT ADDRESS ASSIGNMENT	Reference	Association of ADDRESS LOCATION to specific Segment of a given Street.
STRICT SCHEDULING SERVICE	Reference	This type of SCHEDULING SERVICE assigns each Queue a priority, and then visits each Queue in priority order. However, as long as a Queue of a higher priority has traffic enqueued, Queues of lower priority are starved. Subtype of SCHEDULING SERVICE.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SUB NETWORK	Reference	An abstraction provided by the Element Management System (EMS) to the Network Management System (NMS) that describes the potential for subnetwork connections. The Sub Network also provides a transparent end-to-end connection or a TRAIL, closed or half-open, through a Subnetwork according to the roles associated to its end points.
SUBSCRIBER ACTIVATION REASON	Lookup	Lookup for valid Subscriber activation code and reasons used to describe Subscriber Activation. For example: ▪ Reactivate because of paying ▪ Deactivate by non-paid
SUBSCRIPTION RESOURCE ROLE ASSIGNMENT	Reference	Defines the relationship between PRODUCT SUBSCRIPTION and the role a RESOURCE takes with respect to this subscription.
SUBSCRIPTION SERVICE ASSIGNMENT	Reference	The relationship between PRODUCT SUBSCRIPTION and SERVICE. One subscription may be used to rate multiple services. For example, WCDMA 3G Data + Wifi, and vice versa. One service, for example a gsm mobile, may support multiple products (calling minutes, discounts, and so on).
SUBSCRIPTION SERVICE CLASS ASSIGNMENT	Reference	Defines the class of service for a PRODUCT SUBSCRIPTION.
SUBSCRIPTION STATISTIC MONTH AGGR	Aggregate	Monthly summary of Subscriber Churn by PRODUCT SPECIFICATION, PRODUCT OFFERING, CUSTOMER TYPE, GEOGRAPHY ENTITY, ORGANIZATION BUSINESS UNIT.
SUBSCRIPTION TERM VALUE	Base	Value assignments for Subscription Terms as pertains to a PRODUCT SUBSCRIPTION and PRODUCT SPECIFICATION. For example: ▪ Monetary amount ▪ Period ▪ Premium ▪ Initial points The value can vary at different time periods. For example, the monthly fee might be 100 for first six months, and 80 for last six months. A penalty calculation can also be assigned based on the months left in an agreement.
SUBSIDY TYPE	Lookup	Lookup for type code and description of a Subsidy.
SUPPLEMENTARY SERVICE	Reference	Supplementary Services are Add-on or Value Add services that are normally available but have to be explicitly triggered by the customer in any way to work. CLIP, CLIR, Conference Call, and so on, are typical Supplementary Services that runs on top of a normal call and should be charged in a particular way.
SUPPLEMENTARY SERVICE USAGE DRVD	Derived	Daily summary of SUPPLEMENTARY SERVICE usage. This table can be customized to include more services.
SUPPLEMENTARY SERVICE USAGE MONTH AGGR	Aggregate	Monthly aggregate of the SUPPLEMENTARY SERVICE usage.
SURVEY	Reference	A survey is a subtype to the PROMOTION.
SWITCH	Reference	Network switches or exchanges. A switch may be a PSTN (wireline) digital or analog, or a GSM Mobile Station controller (wireless).
SWITCH CAPABILITY	Reference	Records the specific functional characteristics of each switch or exchange. The types of capabilities of interest are those that enable customer services; this entity enables the operator to identify if customers on a particular switch can utilize a certain service (for example, VPN).
SWITCH CAPABILITY TYPE	Lookup	Lookup for type codes and descriptions used to categorize SWITCH CAPABILITY.
SWITCH COMMAND	Reference	Command which is sent to the switch, telling it to take an action. For example, activate a port with specified parameters.
SWITCH ROUTING DEVICE ASSIGNMENT	Reference	Assigns a routing device to a switch in any type of network.
SWITCH TYPE	Lookup	Classification of Switch Type and Manufacturer.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
SWITCHING PROTOCOL	Reference	This entity represents different types of switching protocols that can be managed. Switching protocols are those protocols that enable routing to consider layer two information, such as bandwidth and QoS. Traditional routing protocols are designed to evaluate each frame's layer three header only. Several methods are available for accomplishing the task of looking at layer two information and defining a next hop. Most now use the concept of a label, which is a means to define the next hop without evaluating all of the information of a traditional header.
SWITCHING ROLE	Reference	Abstracts the different routing capabilities necessary for a LOGICAL DEVICE to have. This helps simplify the modeling of (especially) network devices, which have many different sets of capabilities. For example, most routers can do routing, forwarding, and firewalling of traffic. By modeling these capabilities as three roles, switch functionality is both abstracted and categorized, so that the differences between forwarding traffic done by a router and forwarding traffic done by a L3 switch can be differentiated.
SWOT TYPE	Lookup	A Strength, Weakness, Opportunity, Threat (SWOT) that an enterprise has when compared to a COMPETITOR. SWOT analysis is a formal framework of identifying and framing organizational growth opportunities.
SYMBOLOGY	Lookup	List of Symbology available (for representation on a map).
TAP IN WIRELESS ROAMING EVENT	Base	UDR EVENTs invoked by our customer on partners network. Those events should be attached to the account for billing purposes.
TAP OUT WIRELESS ROAMING EVENT	Base	UDR EVENTs by partner customer on the operator network.
TARGET ACCESS METHOD	Reference	The ACCESS METHODs associated with a PROMOTION.
TARGET ACCOUNT	Reference	ACCOUNTs targeted by a PROMOTION.
TARGET AGREEMENT	Reference	AGREEMENTs targeted by a PROMOTION.
TARGET GEOGRAPHY AREA	Reference	GEOGRAPHY ENTITYs targeted by a PROMOTION.
TARGET MARKET SEGMENT	Reference	The MARKET SEGMENTs included in a specific CAMPAIGN.
TARGET TYPE	Lookup	Lookup for valid Type codes and descriptions as pertain to a PROMOTION. For example: ■ CUSTOMER ■ ACCOUNTs ■ ACCESS METHOD ■ Geography area
TASK	Reference	The specific tasks inside a PROJECT.
TAX AUTHORITY	Reference	A government authority that levies sales taxes and on whose behalf the store collects these sales taxes. For Example: ■ National ■ State ■ Province ■ City ■ County ■ Other
TAX CATEGORY	Lookup	The tax categories which may be applied to invoices items.
TAX EXEMPT	Lookup	Lookup for valid tax exempt codes and descriptions as pertains to an ITEM SPECIFICATION.
TCH TYPE	Lookup	Lookup for the types of Traffic Channel. For example: ■ Voice Channel ■ Data Channel

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
TECHNOLOGY	Lookup	Technology names and descriptions that can define a RESOURCE. For example: ▪ CDMA ▪ GSM ▪ ADSL ▪ Ethernet
TECHNOLOGY TYPE	Lookup	Lookup for available type codes and descriptions that can classify or categorize a TECHNOLOGY. For example: ▪ Wireless ▪ Copper line ▪ Optical Fiber
TEMPLATE SERVICE LEVEL SPEC	Reference	The template for SERVICE LEVEL AGREEMENT spec.
TENDER	Reference	Tender includes all the forms of payment that are accepted by the organization in settling sales and other transactions.
TENDER CLASS	Lookup	A type of TENDER with common characteristics.
TENDER CONTROL TRANSACTION	Base	A type of transaction that records the physical movement of tender from one TENDER repository to another.
TERMINATION POINT	Reference	This entity is for terminates transport entities, such as trails and connections. This object class is a basic object class from which subclasses, such as Trail Termination Point and CONNECTION TERMINATION POINT, are derived.
TIER CARD TYPE	Lookup	Type of Loyalty Tier Card.
TIME BAND	Reference	Band of call duration. For example: ▪ 0-5 minutes ▪ 5-30 minutes ▪ 30-120 minutes ▪ >120 minutes
TIME SLOT	Reference	Reference entity defining the time slot within a DAY in relation to HOURs, HALF HOURs and QUARTER HOURs. This is used in all time derived and aggregation tables.
TIME STANDARD BY DAY	Reference	Relates the calendar day to a season and to a standard day. Specifies the relationship between a given day and all days of a given season up to that day.
TIME STANDARD BY WEEK	Reference	Relates the calendar week to a season and to a standard week. Specifies the relationship between a given week and all days of a given season up to that week.
TIME TOTAL	Reference	Represents the top most level of Time. This is needed to enable Ad-Hoc Reporting involving the Time Dimension.
TIME ZONE	Lookup	Lookup for the Geographic time zone as related to the Greenwich Mean Time (GMT +0.00).
TMF KPI DRVD	Derived	Target entity to store the various TMF KPIs on a monthly level. Defines the TMF Business Metric Automation data exchange.
TOKEN BUCKET	Reference	Information related to the TOKEN BUCKET and the SERVICE associated.
TOS SERVICE	Reference	Defines semantics that specify how traffic is forwarded based on the value of the ToS byte of a packet. Subtype of QOS SERVICE.
TRACKING RECORD	Base	Tracking records allow the tracking of modifications on the Problem. The tracking records should not be embedded in the problem to allow retrieving the problem without the tracking records.
TRAFFIC CONDITIONING SERVICE	Reference	Defines an abstract base entity that is the parent for different types of traffic conditioning services defined in the DEN-ng Service model. TRAFFIC CONDITIONING SERVICEs control how packets and flows are treated compared to other packets and flows in the system. Please see the DEN-ng Service model for more details.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
TRAFFIC IDENTIFICATION SERVICE	Reference	Defines the TRAFFIC IDENTIFICATION SERVICE; an abstract base entity that is the parent for different types of traffic identification services defined in the DEN-ng Service model. TRAFFIC IDENTIFICATION SERVICE are one example of a RESOURCE FACING SERVICE. TRAFFIC IDENTIFICATION SERVICEs control how packets and flows are identified and distinguished from other packets and flows in the system. Without these services, traffic conditioning cannot work. Please see the DEN-ng Service model for more details.
TRAFFIC MATCH CRITERIA	Reference	Define selection criteria for the CLASSIFIER SERVICE to use so that the CLASSIFIER SERVICE can separate ingress traffic into sets of flows. This entity contains data, metadata, and links to POLICY RULEs to govern the selection criteria.
TRAIL	Reference	Trail is a class of managed objects in layer networks which is responsible for the integrity of transfer of characteristic information from one or more other layer networks. A Trail is composed of two Trail Termination Points and one or more Connections and associated CONNECTION TERMINATION POINTs.
TRAIL TERMINATION POINT	Reference	This entity groups different types of Trail Termination Points. This entity enables a single composition (CTPsInTrail) to be run to this entity, which is then inherited by its subclasses. This is deemed better than building three relationships between the (currently) three types of Trail Termination Points and the CTP class. Note that each has the same containment relationship.
TRANSACTION CATEGORY	Lookup	A code to denote the type of transaction.
TRANSACTION TYPE	Lookup	Further classifications of TRANSACTION CATEGORY.
TRANSFER TYPE	Lookup	Code to indicate type of INVENTORY TRANFER. For example: ▪ Normal ▪ Book ▪ Inter-company
TROUBLE TICKET	Base	Subtype of BUSINESS INTERACTION.
TROUBLE TICKET FIELD SUPPORT ASSIGNMENT	Base	Specifies relationships between customer field support and the potential trouble tickets open associated to this support.
TROUBLE TICKET ITEM	Base	Subtype of BUSINESS INTERACTION ITEM.
TRUNK GROUP	Lookup	Group of Trunks, for reporting or network management purpose.
TV CHANNEL	Reference	Type of PRODUCT associating a Television Channel with a PTV USAGE EVENT.
UDR EVENT	Base	Abstracted event for all events that happened to the operator network because of customer usage; UDR EVENTs are usually the basis for customer billing.
UDR EVENT ASSIGNMENT	Base	Defines the relationship between one UDR EVENT and another UDR EVENT.
UDR EVENT CHARACTERISTIC	Reference	A detailed description of an attribute that defines a particular type of UDR EVENT, described by its name, category, type, presence and a set of allowed values. Subtype of FLEXIBLE CHARACTERISTIC.
UDR EVENT CHARACTERISTIC RELATIONSHIP	Reference	The relationship between network or UDR event characteristic, like aggregation, migration, substitution, dependency, or exclusivity.
UDR EVENT CHARACTERISTIC TYPE	Lookup	A category representing a high-level aspect of the UDR EVENT information described by the characteristic. Subtype of FLEXIBLE CHARACTERISTIC TYPE.
UDR EVENT CHARACTERISTIC VALUE	Reference	Subtype of FLEXIBLE CHARACTERISTIC VALUE.
UDR EVENT SPECIFICATION	Reference	Specifications associated with any Usage related Event (or UDR EVENT).
UDR EVENT SPECIFICATION CHARACTERISTIC	Reference	Specifies an attribute that defines a particular type of UDR EVENT, described by its name, category, type, presence and a set of allowed values. Subtype of FLEXIBLE CHARACTERISTIC.
UDR EVENT SPECIFICATION CHARACTERISTIC RELATIONSHIP	Reference	Subtype of FLEXIBLE CHARACTERISTIC RELATIONSHIP.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
UDR EVENT SPECIFICATION CHARACTERISTIC USE	Reference	The relationship between or among UDR EVENT SPECIFICATION CHARACTERISTIC VALUE, such as aggregation, migration, substitution, dependency, or exclusivity. Subtype of FLEXIBLE CHARACTERISTIC ASSIGNMENT.
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE	Reference	Subtype of FLEXIBLE CHARACTERISTIC VALUE.
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP	Reference	The relationship between or among UDR EVENT SPECIFICATION CHARACTERISTIC USEs, such as aggregation, migration, substitution, dependency, or exclusivity. Subtype of FLEXIBLE CHARACTERISTIC VALUE RELATIONSHIP.
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE USE	Reference	A use of the Characteristic Value by a UDR EVENT to which additional properties, attributes, apply or override the properties of similar properties contained in UDR EVENT CHARACTERISTIC VALUE. Subtype of FLEXIBLE CHARACTERISTIC VALUE ASSIGNMENT.
UDR EVENT SPECIFICATION RELATIONSHIP	Reference	Relationships,dependencies or exclusions, between various UDR EVENT SPECIFICATION.
UDR EVENT SPECIFICATION TYPE	Lookup	Determines whether a UDR EVENT SPECIFICATION is of type composite or Atomic.
UDR EVENT SPECIFICATION VERSION	Reference	Small variation of UDR EVENT SPECIFICATION that does not require the creation of an independent UDR EVENT SPECIFICATION. Typically, it could correspond to the evolution of the standard (like TAP file, or GSMA standard CDR definition).
UDR EVENT STATUS	Lookup	Lookup for possible status of UDR EVENTs. For example: ▪ Mediated ▪ Billed
UDR EVENT TYPE	Lookup	Lookup for available types of UDR EVENTs.
UDR EVENT TYPE VERSION	Reference	A particular form or variety of a UDR EVENT TYPE that is different from others or from the original. The form represents differences in properties that characterize a UDR EVENT TYPE, that are not enough to warrant creating a new UDR EVENT TYPE.
UMS ACCESS TYPE	Lookup	Lookup for valid type codes and descriptions for Unified Messaging Services (UMS). The UMS access type indicates the way customers are accessing their mailboxes. This is especially applicable to UMS users who can access their mailbox ether using the standard method, with a specified number or by using Internet mail.
UMS EVENT	Base	Subtype of UDR EVENT. In the UMS notification type dimension, Unified Messaging Service (UMS) is an advanced version of Voice Message Service (VMS). As it is possible to notify the subscriber using UMS by either SMS or by internet mail, similarly a subscriber can access a mailbox in different ways, including by calling a standard access number or through the internet. The information related to UMS access is to be analyzed by the type of access. UMS access type dimension will be used to fulfill this requirement.
UMS EVENT TYPE	Lookup	Lookup for the type of UMS events. For example: ▪ E-mail ▪ SMS ▪ Fax ▪ Voicemail ▪ Video Messaging
UNIT ALLOWANCE	Base	Describes the free unit allowance (for PREPAID or other products) given to the subscribers every month. The allowance could be SMS, MMS, Minutes, VAS Events, KB/MB, or even an option on the fly where you can have 2 mn or 4 SMS or 1 MMS (in this relationship ratio), whatever comes first.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
UNIT OF MEASURE	Lookup	Lookup for possible measurement units valid for the data within the system. For example: ▪ Inch ▪ Kilowatt-hour ▪ Days ▪ Cubic centimeters
URBAN PROPERTY ADDRESS	Reference	The property address in the format of an urban area.
USAGE TYPE	Lookup	Specifies the type of usage of a specific service or UDR EVENT. In some billing systems, it may be an internal code that represents an attribute of a customer account, leveraged for rating a usage (for example, Friends and Family);
USER	Reference	Associative entity for EMPLOYEE, JOB ROLE, Business Unit; associates a unique ID for every job role that an employee performs at a particular business unit. An employee appears only one time in the EMPLOYEE entity, but in USER entity, the employee appears on time for each job role at each business unit.
VALUE ADDED SERVICE	Reference	Type of product consisting of supplementary or value added services such as Call Forward, Call barring, CLI, CLIR, UMS, or VMS.
VALUE CUSTOM	Reference	This entity provides two basic attributes to define custom value objects that can be used in an application-specific fashion. These two attributes are called valueModelAttribute and valueModelClass. The valueModelAttribute is a string attribute that defines the name of the attribute within the entity specified in the valueModelClass attribute that is to be evaluated or set as a POLICY VALUE. The valueModelClass is a string attribute that defines the entity name whose attribute is to be evaluated or set as a POLICY VALUE. This combination enables new custom subclasses of Value Custom to be defined that specify the entity and attribute that they are modeling. These new subclasses can be found by users of the current the model schema by searching for these two properties. That also enables the model users to immediately understand the purpose of new extensions.
VALUE STANDARD	Reference	This is the abstract base entity for defining a set of standardized POLICY VALUEs. This set of POLICY VALUEs will be added to over time, and represents a set of common values that are useful in a variety of PBNM applications. The subclasses of Value Standard are a set of classes that define the semantics of commonly occurring variables that occur in PBNM applications.
VALUE TYPE	Lookup	Lookup for available type codes and descriptions pertaining to defining the derived value of a CUSTOMER or PROSPECT.
VARIABLE CUSTOM	Reference	There are two subclasses of POLICY VARIABLE, called Variable Custom and Variable Standard. The Variable Custom entity defines a set of standardized policy variables for use in an application-specific manner. The term "custom" means that such variables are explicitly designed to work with attributes that are not in any of the model Variable Standard subclasses. Thus, the particular semantics, including any applicable constraints, are not known to the model. This entity provides two basic attributes to define custom variables to use in an application-specific fashion.
VARIABLE STANDARD	Reference	This entity defines a standard set of POLICY VARIABLE objects that are common to most PBNM applications.
VAS SUBSCRIPTION	Reference	Type of Subscription that includes VALUE ADDED SERVICE.
VAS SUBSCRIPTION QUICK SUMMARY DRVD	Derived	Monthly Aggregation of VALUE ADDED SERVICE Details by CUSTOMER and ACCESS METHOD.
VAS SUBSCRIPTION QUICK SUMMARY MO AGGR	Aggregate	Monthly Summary of VALUE ADDED SERVICE Details by CUSTOMER TYPE.
VAS USAGE DAY DRVD	Derived	Daily usage statistics for all value added services that are content based (and some others). This includes: M2M, P2P, and SMS, MMS, ringtone, music, video, email, Universal (Voice/Email) message, and others.
VAS USAGE MONTH AGGR	Aggregate	Monthly aggregation of VAS usage statistics, from VAS USAGE DAY DRVD.
VEHICLE	Reference	The vehicles owned and used by the operators to fulfill its business requirement.
VENDOR	Reference	Supplier or source of equipment or supplies.

Table 2–43 (Cont.) S to V Entity Descriptions

Entity Name	Type	Description
VENDOR AGREEMENT	Reference	Time bound agreement with VENDOR.
VENDOR APPOINTMENT	Base	Single or recurring appointment times allocated for VENDOR representative to visit the Provider or Retail Site.
VENDOR CLASS	Lookup	Lookup for the classification of Vendors. For example: ▪ Primary ▪ Associate ▪ Direct Supply
VENDOR FACTOR COMPANY ASSIGNMENT	Reference	Defines the relationship between VENDOR and FACTOR COMPANY.
VENDOR RATING	Reference	Score assigned to VENDOR based on performance criteria.
VENDOR RATING TYPE	Lookup	Lookup for type codes and descriptions of VENDOR RATING performance criteria.
VENDOR SITE	Reference	A Site or Location associated with a VENDOR from which VENDOR may do business with Provider. A Vendor site may be an Office, Warehouse, Dispatch Center, and so on.
VENDOR SITE COURIER ASSIGNMENT	Reference	Association of VENDOR SITE with COURIER code (from the goods transportation perspective).
VENDOR SITE TYPE	Lookup	Lookup for valid type codes and descriptions pertaining to VENDOR SITE. For example: ▪ Call center ▪ Branch Office ▪ Warehouse
VIRTUAL TEAM	Reference	Type of Business Unit formed for a specific purpose. For example: ▪ Sales Team A, B, C ▪ Customer Support Team A, B, C ▪ Project team ▪ Strategic Account management team including sales and support
VISITOR	Reference	Defines any individual having an active session on the website of the Communication Service Provider (defined as Visitor). This visitor shall NOT be registered as customer (he/she does not login).
VISITOR TYPE	Lookup	Type of VISITOR depending on their behavior on the site.
VOICE CALL DAY DRVD	Derived	Daily aggregate of Voice Call statistics by TIME SLOT, Business Unit, County, PRODUCT SPECIFICATION, CUSTOMER TYPE, Call Source, Call Destination, CALL DIRECTION, Call Success/Failure, Roaming Service.
VOICE CALL MONTH AGGR	Aggregate	Monthly Summary of Voice Call statistics by Business Unit, County, PRODUCT SPECIFICATION, CUSTOMER TYPE, CALL CATEGORY, CALL DIRECTION, Call Success/Failure.
VOICE MESSAGE SERVICE	Reference	Subtype of SERVICE.
VOIP CALL EVENT	Base	The subtype of UDR EVENT, specialized for Voice Over IP (VOIP) Calls.
VOLUME BAND	Lookup	Characterizes UDR EVENTs by volume. The volume characteristic may be in units of bytes, minutes, packets, downloads. The entity is used as part of the rating of calls and other UDR EVENTs.
VPN LOGICAL DEVICE ROLE	Reference	A VPNRole is the superclass for various types of VPN role classes. For example, MPLS VPNs will use the CPELogicalDeviceRole, PELogicalDeviceRole, and PLogicalDeviceRole subclasses of this entity to abstract functionality required for the CPE, PE, and P roles of an MPLS VPN. Other types of VPNs use other subclasses of the VPNRole class. The advantage of this class is that it enables different types of VPN roles to be specified by an MPLSVPNServiceSpecification.
VPN SERVICE	Reference	The VPN service currently used by the customers.

Table 2–44 W to Z Entity Descriptions

Entity Name	Type	Description
WAN PROTOCOL	Reference	WAN Protocols operate at the lowest three levels of the OSI model, that is, physical, data link, and network. Use WAN Protocols define communications over different types of wide-area media.
WEATHER CONDITION	Reference	Reference of the various “weather” conditions, in a very general sense, affecting a given day. There is a difference between internal "weather" (a flood in a store, an employee strike, and so on) and external "weather" (storm, flood, snow, and so on). This information is useful in relation to a network failure.
WEB INTERACTION NAVIGATION HISTORY	Base	The history of customer navigation path in web visit.
WEB PAGE	Reference	A web page on a service operator website. The Web page may present a product or handle a customer service request.
WEB PAGE CONTENT	Reference	Content of a WEB PAGE, links WEB PAGE to its relevant entity, including product, script, and so on.
WEB PAGE RENDERING TYPE	Lookup	Lookup for type of WEB PAGE rendering. For example: ■ Dynamic (ASP, PHP, JSP, and so on) ■ Static (html)
WEB PAGE TYPE	Lookup	Web page type groups the web pages according to their content and purpose. For example: ■ Service page ■ Advertisement ■ Tariff plan
WEBSITE	Reference	Defines all the Web Sites provided by or of interest to the Communications Service Providers.
WEBSITE USER	Reference	List the website users, who are visitors that have registered (logged in).
WEEK TODATE TRANSFORMATION	Reference	Cumulative time transformations at the week level.
WEEK TRANSFORMATION	Reference	Time transformations at the week level.
WEEKDAY	Reference	Calendar weekdays.
WEIGHTED FAIR QUEUING SERVICE	Reference	Defines a cross between priority queuing and fair queuing, seeking to garner the best from both algorithms. All queues are serviced so that none are starved, but some queues are serviced more than others. A portion of the bandwidth of a DEVICE INTERFACE is allocated to each active flow. Subtype of FAIR QUEUING SERVICE.
WEIGHTED ROUND ROBIN SCHEDULING SERVICE	Reference	Extension of algorithm to the standard ROUND ROBIN SCHEDULING SERVICE to allow to accommodate variable packet sizes. Subtype of ROUND ROBIN SCHEDULING SERVICE.
WIRELESS CALL EVENT	Base	Defines occurrence of wireless call.
WIRELESS CONTENT DOWNLOADING EVENT	Base	Type of UDR EVENT, to track wireless content downloading such as music, video clips, and so on.
WIRELESS RATING PLAN	Reference	Subtype of PRODUCT OFFERING PRICE, reserved for wireless voice and data services.
WIRELESS RESOURCE	Reference	Resource hierarchy specifically associated to the wireless network for analytical purpose. Defines all geographical and network related information about each (important) Wireless Resources.
WIRELESS ROAMING EVENT	Base	The wireless call event which roams across operators, including TAP IN and TAP OUT events. This entity is designed according to GSMA (Global System for Mobile communications) official document TD.57.
WIRELESS ROAMING EVENT BATCH	Base	The batch which includes roaming events as details. This batch normally appears in one TAP file.

Table 2–44 (Cont.) W to Z Entity Descriptions

Entity Name	Type	Description
WIRELESS SERVICE	Reference	The wireless services that the customer is using. For example: ▪ GSM ▪ WCDMA
WIRELESS SPECTRUM	Reference	The wireless spectrum used in service provider network.
YEAR TRANSFORMATION	Reference	Transformations at the year level.

3

Logical Data Model Dimensions

This chapter describes the logical dimensions, and hierarchies, of the data model, as shown in Table 3–1.

Table 3–1 Logical Data Model Dimensions

Dimension
Access Method
Account
Account Payment Method Status Type
Account Refund Reason
Address Location
Age Band
Age Group
Age On Net Band
Agreement Change Initiator Type
Agreement Type
ARPU Band
Bank Direct Debit Channel
Ber Fer Type
Billing Cycle
Billing Status Type
Business Time
Calendar Time
Call Category
Call Center Agent
Call Center Case Title
Call Center
Call Direction
Call Other Type
Call Routing Type
Call Service Type
Call Source Destination
Call Success Fail Type
Call Type
Campaign

Table 3–1 (Cont.) Logical Data Model Dimensions

Dimension
Campaign Channel
Campaign Media
Cell Outage Reason
Cell Site
Change Proposed By Type
Channel
Collection Agency
Commission Type
Competitor
Contact List
Content
Content Type
Contract Change Initiator Type
Contract Assignment Reason
Cost Center
Credit Category
Currency
Customer
Customer Cluster
Customer Revenue Band
Customer Segment
Dealer
Debt Aging Band
Direct Debit Status Reason
Divert Retrieve Type
Employee
Environment Type
Event Category
Event Result
Event Type
External Operator
Fraud Profile Class
Geography
Give Away Type
GPRS Services
Handset Model
IN Platform
Initiative Type
Interaction Channel
Interaction Direction
Interaction Type
Invoice Adjustment Reason

Table 3–1 (Cont.) Logical Data Model Dimensions

Dimension
Invoice Adjustment Type
Invoice Status
ISP
Item Subclass
Legal Process Status Type
Lifecycle Type
Loyalty Program Channel
Loyalty Tier
Market Area
Media Object Type
Network
Network Touchpoint
Network Touchpoint Class
Network Touchpoint Status
Network Touchpoint Type
Network Type
Notification Type
NP Request Type
On Off Net Type
Order Line Item State
Order State
Order Type
Organization
Packet Control Unit Outage Reason
Partner Settlement Reason
Party
Payment Channel
Payment Method Type
Payment Transaction Type
PCU Outage Reason
Peak Offpeak Time
PPA Category
Product
Product Specification Type
Product Subscription Status
Product Subscription Type
Promotion
Promotion Result Type
Quarter Hour
Reason
Recharge Revenue Slab
Redemption Type

Table 3–1 (Cont.) Logical Data Model Dimensions

Dimension
Retail Type
RF Carrier
Roaming Type
Sales Channel
Sales Channel Representative
Script
Service Coverage Area
SKU Item
SPNM Other Party Number
Subsidy Type
Switch
Technology Type
Tender
Time Slot
UMS Access Type
Value Added Services (VAS)

Logical Data Model Dimensions

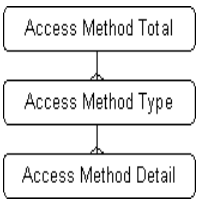
This sections lists the logical data model dimensions.

Access Method

Description: ACCESS METHOD

Access Method Hierarchy

Standard Access Method Hierarchy



Access Method Levels

Table 3–2 shows Access Method Total: All access method is the most aggregate level of the dimension.

Table 3–2 Access Method Total

Sr. Number	Attribute	Description
1.	ACCESS METHOD TOTAL	Code for All Access Method.

Table 3–3 shows Access Method Type: This entity keeps all types of the Access Telephone Numbers, such as Wire line, Wireless.

Table 3–3 Access Method Type

Sr. Number	Attribute	Description	Sample Value
1	ACCESS METHOD TYPE CODE	A code, used to uniquely identify the access method type.	FLTN
2	ACCESS METHOD TYPE DESC	A textual description of the Access Method Type.	Fixed Line Telephone Numbers
3	ACCESS METHOD TYPE NAME	The name assigned to the Access Method Type.	Fixed Line Telephone Numbers
4	LANGUAGE CODE	Unique identifier for Language	

Table 3–4 shows Access Method Detail: Detail level of the dimension. Stores the Access Method Information.

Table 3–4 Access Method Detail

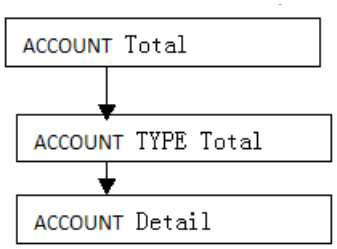
Sr. Number	Attribute	Description	Sample Value
1	ACCESS METHOD CODE	A sequence of numbers (like phone number) electronically registered to telecommunications equipment that gives the Customer access to services or products. Other access method like DSL account, Service ID might be character type.	867558305000
2	ACCESS METHOD DESC	Access method full description.	WRLS867558305000
3	ACCESS METHOD NAME	ACCESS METHOD NAME. ACCESS METHOD NAME	WRLS867558305000
4	ACCESS METHOD POOL CODE	Unique identifier for Access Method Pool	
5	ACCESS METHOD SEGMENT CODE	Unique identifier for Access Method Segment	
1	ACCESS METHOD TYPE CODE	A code, used to uniquely identify a access method type.	FLTN
2	ACCOUNT CODE	This is usually natural key of the account. Optional column, At certain time period, the access method may not be bound to an account.	10000101
3	CUSTOMER SELECT INDICATOR	Indicates whether the phone number (access method identifier) is selected by a customer.	
4	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	12/31/2005 12:00:00 AM
5	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	12/31/2005 12:00:00 AM
6	NETWORK CODE	Identifier of the network.	
7	SILENT NUMBER INDICATOR	An indicator that indicates whether a party has a silent number. A silent number could not be found on the White Pages. access method full description	
8	STATUS CODE	Current STATUS CODE, standard SCD2 column.	
9	SWITCH CODE	Unique identifier for Switch	

Account

Description: ACCOUNT

Account Hierarchies

Standard ACCOUNT Hierarchy:



Account Levels

The following table shows ACCOUNT Total: All ACCOUNT is the most aggregate level of the dimension.

Table for ACCOUNT Total

Sr. Number	Attribute	Description
1.	ALL ACCOUNT CODE	Identification for the top level value

Detail table ACCOUNT TYPE

Sr. Number	Attribute
1	ACCOUNT TYPE NAME
2	ACCOUNT TYPE CODE
3	LANGUAGE CODE
4	ACCOUNT TYPE DESC

Detail table **ACCOUNT** Detail

Sr. Number	Attribute	Description	Sample Value
1	ACCOUNT CODE	This is usually natural key of the account.	10000102
2	ACCOUNT NAME	The name for the account.	
3	ACCOUNT SEGMENT CODE	Unique identifier for Account Segment	
4	ACCOUNT TYPE CODE	Unique identifier for Account Type	PRPD
5	ACCOUNTING CYCLE CODE	Unique identifier for Accounting Cycle	
6	ADVERTISING STATUS	Indicated if it need some advertising material for a particular invoice arrangement, and if customer explicitly requested NOT to send.	
7	BILLING CYCLE CODE	Unique identifier for Billing Cycle	MO
8	BILLING PERIOD CODE	Unique identifier for Billing period	
9	CREATE DATE	The date when the account was created.	4/4/2006 12:00:00 AM
10	CREATE STAFF	the employee number of who created the account.	
11	CREDIT CATEGORY CODE	Current Credit Category Code.	

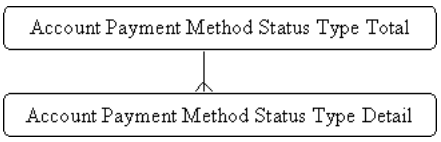
Sr. Number	Attribute	Description	Sample Value
12	CREDIT RATING DATE	CREDIT RATING DATE is when the credit category code is rated for the account.	
13	CURRENCY CODE	Unique identifier for Currency	USD
14	CUSTOMER CODE	Unique identifier for Customer	
15	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	12/31/2005 12:00:00 AM
16	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	12/31/2005 12:00:00 AM
17	GROUP PLAN INDICATOR	Indicates whether an account belongs to a group plan/solution.	
18	LAST ACTIVATE DATE	The last date when account was activated.	
19	LAST REOPEN DATE	Last time when account was reopen.	
20	LAST SUSPEND DATE	Last date when the account was suspended for certain reasons.	
21	MULTIPLE CUSTOMER INDICATOR	Indicates whether one bill has multiple customer.	
22	ORGANIZATION BUSINESS UNIT CODE	Unique identifier for Organization Business Unit	
23	PAYMENT DAYS	The number of days after customer billing before certain actions (like debt collection) would be taken.	
24	STATUS CODE	STATUS CODE, standard SCD2 column.	
25	TERMINATION DATE	TERMINATION DATE.	3/3/2008 12:00:00 AM

Account Payment Method Status Type

Description: ACCOUNT PAYMENT METHOD STATUS TYPE

Account Payment Method Status Type Hierarchy

Standard Account Payment Method Status Type Hierarchy:



Account Payment Method Status Type Levels

Table 3–5 shows Account Payment Method Status Type Total: All Account Payment Method Status Types are most aggregate level of the dimension.

Table 3–5 Account Payment Method Status Type Total

Sr. Number	Attribute	Description
1.	ACCOUNT PAYMENT METHOD STATUS TYPE TOTAL	Code for All Account Payment Method Status Type.

Table 3–6 shows Account Payment Method Status Type Detail: All Account Payment Method Status Types are most aggregate level of the dimension.

Table 3–6 Account Payment Method Status Type Detail

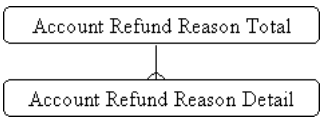
Sr. Number	Attribute	Description	Sample Value
1	ACCOUNT PAYMENT METHOD STATUS TYPE CODE	Code for Direct Debit Status	CHECK
2	ACCOUNT PAYMENT METHOD STATUS TYPE DESC	Direct Debit Status Description	CHECK
3	ACCOUNT PAYMENT METHOD STATUS TYPE NAME	Direct Debit Status Short Description	Transaction By Check
4	LANGUAGE CODE	Unique identifier for Language	

Account Refund Reason

Description: ACCOUNT REFUND REASON

Account Refund Reason Hierarchies

Standard Account Refund Reason Hierarchy:



Account Refund Reason Levels

Table 3–7 shows Account Refund Reason Total: All Account Refund Reasons are the most aggregate level of the dimension.

Table 3–7 Account Refund Reason Total

Sr. Number	Attribute	Description
1.	ACCOUNT REFUND REASON TOTAL	Code for All Account Refund Reason.

Table 3–8 shows Account Refund Reason Detail: All Account Refund Reason Types are most aggregate level of the dimension.

Table 3–8 Account Refund Reason Detail

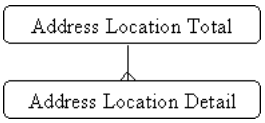
Sr. Number	Attribute	Description	Sample Value
1	ACCOUNT REFUND REASON CODE	A code, used to uniquely identify ACCOUNT REFUND REASON.	INVCADJ
2	ACCOUNT REFUND REASON DESC	A textual description of ACCOUNT REFUND REASON.	Invoice Adjustment
3	ACCOUNT REFUND REASON NAME	The name assigned to ACCOUNT REFUND REASON.	Invoice Adjustment
4	LANGUAGE CODE	Unique identifier for Language	

Address Location

Description: ADDRESS LOCATION

Address Location Hierarchies

Standard Address Location Hierarchy:



Address Location Levels

Table 3–9 shows Address Location Total: All Address Location is most aggregate level of the dimension.

Table 3–9 Address Location Total

Sr. Number	Attribute	Description
1.	ADDRESS LOCATION TOTAL	Code for All Address Locations.

Table 3–10 shows Address Location Detail: All Address Locations are most aggregate level of the dimension.

Table 3–10 Address Location Detail

Sr. Number	Attribute	Description	Sample Value
1	ADDRESS DESCRIPTION	Address description. Textual description of the address.	
2	ADDRESS LATITUDE MEASURE	This is the Latitude value of the specified location	
3	ADDRESS LINE 1	Address. Line one of detailed postal address	123 Park Avenue
4	ADDRESS LINE 2	Address. Line two of detailed postal address	ABC Tower
5	ADDRESS LINE 3	Address. Line three of detailed postal address	Suite 1111
6	ADDRESS LINES PHONETIC	Phonetic or Kana representation of the Kanji address lines (used in Japan)	
7	ADDRESS LOCATION CODE	unique identifier for the address.	
8	ADDRESS LONGITUDE MEASURE	This is the longitude location of the specified address.	
9	ADDRESS STYLE	Any specific style of the address. It might include the detail like All Capital words, case, font and so on.	
10	ADDRESS TYPE CODE	Unique identifier for the address type.	Shipping
11	REGION NAME	Name of the Reason	
12	SUBREGION DESC	description of sub region	
13	TAX AUTHORITY CODE	Unique identified for the tax authority	
14	WORLD DESC	Description of world	
15	WORLD NAME	Name of the world	
16	ADDRESS LATITUDE MEASURE	This is the Latitude value of the specified location	
17	POSTAL PLUS CODE	Four digit extension to the United States Postal ZIP code.	
18	STREET CODE	Uniquely identifier of state	
19	CITY DESC	Description of the city	
20	FLAT ROOM CODE	Uniquely identifier of the flat room	
21	GEOGRAPHY STATE CODE	State of the geography	
22	POST OFFICE BOX	PO box if available.	
23	STATE DESC	Description of the state	

Table 3–10 (Cont.) Address Location Detail

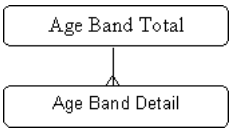
Sr. Number	Attribute	Description	Sample Value
24	STATE NAME	Name of the state	
26	BUILDING DESC	Description for Building	
27	COUNTY DESC	Description for County	
28	GEOGRAPHY COUNTRY CODE	Code for Geography Country	
29	POSTCODE CODE	Code for Post Code	
30	ADDRESS DESCRIPTION	Address description. Textual description of the address.	
31	ADDRESS TYPE CODE	Unique identifier for the address type.	
32	BUILDING NAME	Name for Building	
33	COUNTY NAME	Name for County	
34	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	
35	FLAT ROOM DESC	Description for Flat Room	
36	GEOGRAPHY COUNTY CODE	Code for Geography County	
37	GEOGRAPHY ENTITY CODE	unique geography identifier. A unique identifier for the geography entities, could be a system generated unique key for Geography entity.	
38	REGION DESC	Description for Region	
39	WORLD CODE	Description for World	
42	LONGITUDE	The angular distance between a point on any meridian and the prime meridian at Greenwich	
43	PRIMARY ADDRESS TELEPHONE	Telephonic address	
44	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.	
47	COUNTRY NAME	Name for Country	
48	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	
49	EMPLOYEE CODE	Code for Employee	
50	FLOOR DESC	Description for Floor	
51	SUBREGION NAME	Name for Subregion	
52	ADDRESS LOCATION CODE	unique identifier for the address.	
53	CITY NAME	Name for City	
54	COUNTRY DESC	Description for Country	
55	FLAT ROOM NAME	Name for Flat Room	
56	GEOGRAPHY CITY CODE	Code for Geography City	
57	GEOGRAPHY SUBREGION CODE	Code for Geography Subregion	
58	STREET DESC	Description for Street	
59	STREET NAME	Name for Street	
60	TIME ZONE CODE	Unique Identifier for time zone.	
	GEOGRAPHY LOCATION CODE		
	ELEVATION		
	ELEVATION UOM CODE		
	GEOGRAPHY REGION CODE		
	PRIMARY EMAIL ADDRESS		

Age Band

Description: AGE BAND

Age Band Hierarchies

Standard Age Band Hierarchy



Age Band Levels

Table 3–11 shows Age Band Total: All Age Bands are most aggregate level of the dimension.

Table 3–11 Age Band Total

Sr. Number	Attribute	Description
1.	AGE BAND TOTAL	Code for All Age Bands.

Table 3–12 shows Age Band Detail: All Age Bands are most aggregate level of the dimension.

Table 3–12 Age Band Detail

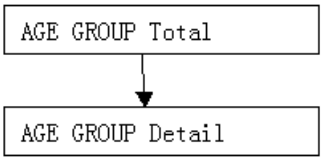
Sr. Number	Attribute	Description	Sample Value
1	AGE BAND CODE	Code for Age band.	AGBND1
2	AGE BAND DESC	Long Description for age band value.	Age Band 21-30
3	AGE BAND FROM	Lower limit of age value of the slab.	21
4	AGE BAND NAME	Description for age band value.	Age Band 21-30
5	AGE BAND TO	Upper limit of age value of the slab.	30
6	LANGUAGE CODE	Unique identifier for Language	

Age Group

Description: AGE GROUP

AGE GROUP Hierarchies

Standard AGE GROUP Hierarchy:



AGE GROUP Levels

The following table shows AGE GROUP Total: All AGE GROUP is the most aggregate level of the dimension.

Table for AGE GROUP Total

Sr. Number	Attribute	Description
1.	AGE GROUP TOTAL	Code for All AGE GROUP

Detail table shows AGE GROUP Detail: All AGE GROUP types is the most aggregate level of the dimension.

Detail table AGE GROUP Detail

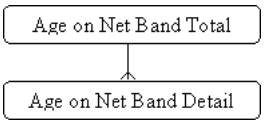
Sr. Number	Attribute
1	AGE GROUP TO
2	AGE GROUP NAME
3	AGE GROUP FROM
4	AGE GROUP CODE
5	LANGUAGE CODE
6	AGE GROUP DESCRIPTION

Age On Net Band

Description: AGE ON NET BAND

Age on Net Band Hierarchies

Standard Age On Net Band Hierarchy:



Age on Net Band Levels

Table 3–13 shows Age on Net Band Total: All age on net bands are most aggregate level of the dimension.

Table 3–13 Age on Net Band Total

Sr. Number	Attribute	Description
1.	AGE ON NET BAND TOTAL	Code for All Age On Net Band.

Table 3–14 shows Age On Net Band Detail: All Age on net bands are most aggregate level of the dimension.

Table 3–14 Age On Net Band Detail

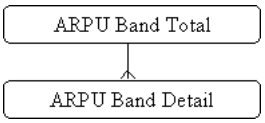
Sr. Number	Attribute	Description	Sample Value
1	AGE ON NET BAND CODE	Code for age on Net band.	AGBND1
2	AGE ON NET BAND DESC	Long Description for age on net band value.	Age on net Band 0-20
3	AGE ON NET BAND FROM	Lower limit of age on net band value of the slab.	21
4	AGE ON NET BAND NAME	Description for age on net band value.	Age on net Band 21-30
5	AGE ON NET BAND TO	Upper limit of age on net band value of the slab.	30
6	LANGUAGE CODE	Unique identifier for Language.	

ARPU Band

Description: ARPU BAND

ARPU Band Hierarchies

Standard ARPU Band Hierarchy:



ARPU Band Levels

Table 3–15 shows ARPU Band Total: All ARPU Bands are most aggregate level of the dimension.

Table 3–15 ARPU Band Total

Sr. Number	Attribute	Description
1.	ARPU BAND TOTAL	Code for All ARPU Band.

Table 3–16 shows ARPU Band Detail: All ARPU Bands are most aggregate level of the dimension.

Table 3–16 ARPU Band Detail

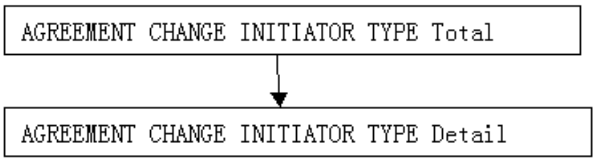
Sr. Number	Attribute	Description	Sample Value
1	ARPU BAND CODE	Unique identifier for revenue band. For example: 0_1000, 1000_3000.	ARPU1000
2	ARPU BAND DESC	Description revenue band.	ARPU Ranging From 0-1000
3	ARPU BAND END VALUE	The end point of a band (the end point is included in the band).	$1,000.00
4	ARPU BAND END VALUE LOCAL	The end point of a band.	
5	ARPU BAND END VALUE REPORTING	The end point of a band.	
6	ARPU BAND NAME	Name of revenue band.	
7	ARPU BAND START VALUE	The start point of a band (the start value is included in the band).	$0.00
8	ARPU BAND START VALUE LOCAL	The start point of a band.	
9	ARPU BAND START VALUE REPORTING	The start point of a band.	
10	LANGUAGE CODE	Unique identifier for Language	

Agreement Change Initiator Type

Description: AGREEMENT CHANGE INITIATOR TYPE

Agreement Change Initiator Type Hierarchies

Standard AGREEMENT CHANGE INITIATOR TYPE Hierarchy:



Agreement Change Initiator Type Levels

The following table shows AGREEMENT CHANGE INITIATOR TYPE Total: All AGREEMENT CHANGE INITIATOR TYPE is the most aggregate level of the dimension.

Table for AGREEMENT CHANGE INITIATOR TYPE Total

Sr. Number	Attribute	Description
1.	AGREEMENT CHANGE INITIATOR TYPE TOTAL	Code for AGREEMENT CHANGE INITIATOR TYPE.

Detail table shows AGREEMENT CHANGE INITIATOR TYPE Detail: All AGREEMENT CHANGE INITIATOR TYPE is the most aggregate level of the dimension.

Detail table AGREEMENT CHANGE INITIATOR TYPE Detail

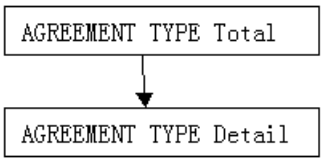
Sr. Number	Attribute	Description
1	AGREEMENT CHANGE INITIATOR TYPE CODE	CONTRACT CHANGE INITIATOR TYPE CODE
2	AGREEMENT CHANGE INITIATOR TYPE DESC	CONTRACT CHANGE INITIATOR TYPE DESC
3	AGREEMENT CHANGE INITIATOR TYPE NAME	CONTRACT CHANGE INITIATOR TYPE name
4	LANGUAGE CODE	

Agreement Type

Description: AGREEMENT TYPE

Agreement Type Hierarchies

Standard AGREEMENT TYPE Hierarchy:



Agreement Type Levels

The following table shows AGREEMENT TYPE Total: All AGREEMENT TYPE is the most aggregate level of the dimension.

Table for AGREEMENT TYPE Total

Sr. Number	Attribute	Description
1.	AGREEMENT TYPE TOTAL	Code for All AGREEMENT TYPE.

Detail table shows AGREEMENT TYPE Detail: All AGREEMENT TYPE types is the most aggregate level of the dimension.

Detail table AGREEMENT TYPE Detail

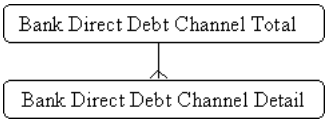
Sr. Number	Attribute	Description
1	AGREEMENT TYPE CODE	A code used to uniquely identify the category of Contracts. Examples: LC = lease contract, SC = service contract
2	AGREEMENT TYPE DESC	A textual description of the category of contracts.
3	AGREEMENT TYPE NAME	The name assigned to a Contract Type. such as lease contract, service contract
4	LANGUAGE CODE	

Bank Direct Debit Channel

Description: BANK DIRECT DEBIT CHANNEL

Bank Direct Debit Channel Hierarchies

Standard Bank Direct Debt Channel Hierarchy:



Bank Direct Debit Channel Levels

Table 3–17 shows Bank Direct Debt Channel Total: All Bank Direct Debt Channel is most aggregate level of the dimension.

Table 3–17 Bank Direct Debt Channel Total

Sr. Number	Attribute	Description
1.	BANK DIRECT DEBT CHANNEL TOTAL	Code for All Bank Direct Debt Channel.

Table 3–18 shows Bank Direct Debit Channel Detail: All Bank Direct Debt Channel is most aggregate level of the dimension.

Table 3–18 Bank Direct Debit Channel Detail

Sr. Number	Attribute	Description	Sample Value
1	BANK BRANCH CODE	Bank Branch id/code.	
2	BANK DIRECT DEBIT CHANNEL CODE	Unique identifier for Bank Direct Debit Channel	SHP
3	PAYMENT CHANNEL CODE		
4	CHANNEL CODE		
5	CHANNEL TYPE CODE		

Table 3–18 (Cont.) Bank Direct Debit Channel Detail

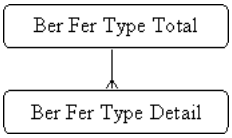
Sr. Number	Attribute	Description	Sample Value
6	PARTY CODE		
7	PARTY TYPE CODE		
8	CHANNEL NAME		
9	CHANNEL DESC		
10	CAPACITY QUANTITY		
11	EFFECTIVE FROM DATE		
12	EFFECTIVE TO DATE		
13	STATUS CODE		

Ber Fer Type

Description: BER FER TYPE

Ber Fer Type Hierarchies

Standard Ber Fer Type Hierarchy:



Ber Fer Type Levels

Table 3–19 shows Ber Fer Type Total: All Ber Fer Types are most aggregate level of the dimension.

Table 3–19 Ber Fer Type Total

Sr. Number	Attribute	Description
1.	BER FER TYPE TOTAL	Code for All Ber Fer Type.

Table 3–20 shows Ber Fer Type Detail: All Ber Fer Type are most aggregate level of the dimension.

Table 3–20 Ber Fer Type Detail

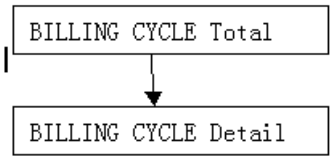
Sr. Number	Attribute	Description	Sample Value
1	BER FER TYPE CODE	Unique identifier for Ber Fer Type	BER
2	BER FER TYPE DESC	Description for Ber Fer Type	Bit Error Ratio
3	BER FER TYPE NAME	Name of Ber Fer Type	Bit Error Ratio
4	LANGUAGE CODE	Unique identifier for Language	

Billing Cycle

Description: BILLING CYCLE

Billing Cycle Hierarchies

Standard BILLING CYCLE Hierarchy:



Billing Cycle Levels

The following table shows BILLING CYCLE Total: All BILLING CYCLE is the most aggregate level of the dimension.

Table for BILLING CYCLE Total

Sr. Number	Attribute	Description
1.	BILLING CYCLE TOTAL	Code for All BILLING CYCLE.

Detail table shows BILLING CYCLE Detail: All BILLING CYCLE types is the most aggregate level of the dimension.

Detail table BILLING CYCLE Detail

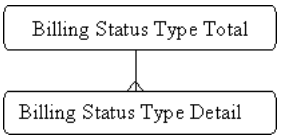
Sr. Number	Attribute	Description
1	CHARGE DATE OFFSET	An offset of number of days from beginning of billing cycle after before which the charges from an account should appear.
2	CREDIT DATE OFFSET	An offset of number of days from beginning of billing cycle after before which the credit from account should appear.
3	BILLING DATE SHIFT	An offset of number of days from beginning of billing cycle to determine next billing.
4	BILLING CYCLE CODE	Code.
5	STATUS CODE	Current STATUS CODE, standard SCD2 column
6	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column
7	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column
8	BILLING CYCLE DESC	Full description.
9	BILLING CYCLE UNIT AMOUNT	The numeric value for billing cycle period. For example, number of days, or months.
10	BILLING CYCLE PERIOD UOM	The unit of measure for billing cycle period amount
11	BILLING CYCLE NAME	title
12	MAILING DATE OFFSET	
13	LANGUAGE CODE	
14	PAYMENT DUE DATE OFFSET	

Billing Status Type

Description: `BILLING STATUS TYPE`

Billing Status Type Hierarchies

Standard Billing Status Type Hierarchy:



Billing Status Type Levels

Table 3–21 shows Billing Status Type Total: All Billing Status Type are most aggregate level of the dimension.

Table 3–21 Billing Status Type Total

Sr. Number	Attribute	Description
1.	BILLING STATUS TYPE TOTAL	Code for All Billing Status Type.

Table 3–22 shows Billing Status Type Detail: All Billing Status Type is most aggregate level of the dimension.

Table 3–22 Billing Status Type Detail

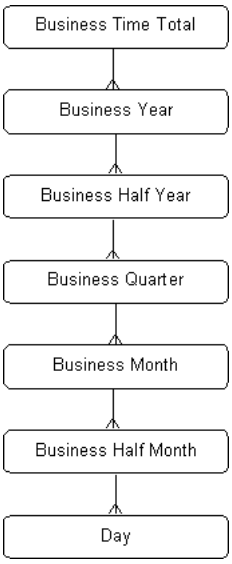
Sr. Number	Attribute	Description	Sample Value
1	BILLING STATUS CATEGORY CODE	BILLING STATUS CATEGORY CODE.	FAILED
2	BILLING STATUS TYPE CODE	BILLING STATUS TYPE code.	FAILDAT
3	BILLING STATUS TYPE DESC	BILLING STATUS TYPE description.	Status type of billing result: Incorrect_data_failed
4	BILLING STATUS TYPE NAME	BILLING STATUS TYPE NAME	Incorrect data failed
5	LANGUAGE CODE	Unique identifier for Language	

Business Time

Description: Calendar as defined and applied to a business unit. Corresponds business calendar entities (`BUSINESS YEAR`, `BUSINESS HALF YEAR`, `BUSINESS QUARTER`, `BUSINESS MONTH`, `BUSINESS HALF MONTH`, `DAY`.

Business Time Hierarchies

Standard Business Time Hierarchy:



Business Time Level

Table 3–23 shows Business Time Total: This is the most aggregate level of the Time dimension.

Table 3–23 Business Time Total

Sr. Number	Attribute	Description
1.	ALL BUSINESS TIME CODE	Identification for the top level value

Table 3–24 shows Business Year: It captures information relating to a year in a Business Calendar.

Table 3–24 Business Year

Sr. Number	Attribute	Description	Sample Value
1	BUSINESS CALENDAR NAME	Textual name of the business Calendar	BUSINESS
2	BUSINESS YEAR CODE	Unique warehouse key of the Year, in the Calendar.	20050101
3	BUSINESS YEAR DESC	Calendar year description.	BY 2005
4	BUSINESS YEAR END DATE	Calendar year end date.	12/31/2005 12:00:00 AM
5	BUSINESS YEAR NUMBER	Calendar year number	
6	BUSINESS YEAR START DATE	Calendar year start date	12/31/2005 12:00:00 AM
7	BUSINESS YEAR TIMESPAN	The length, in terms of days, of this year in the Calendar. For example: 365 days	365
8	TOTAL CODE		

Table 3–25 shows Business Half Year: It captures information relating to half year in a Business Calendar.

Table 3–25 Business Half Year

Sr. Number	Attribute	Description	Sample Value
1	BUSINESS HALF YEAR CODE	Unique warehouse key of the half year, in the Calendar.	20050101
2	BUSINESS HALF YEAR DESC	Calendar half year description.	BY 2005 HY1
3	BUSINESS HALF YEAR END DATE	Calendar half year end date.	12/31/2005 12:00:00 AM
4	BUSINESS HALF YEAR NUMBER	A numeric representation of half year number in the Calendar. It contains values 1 or 2.	1
5	BUSINESS HALF YEAR START DATE	Calendar half year start date.	12/31/2005 0:00
6	BUSINESS HALF YEAR TIMESPAN	The length, in terms of days, of this half year in the Calendar. For example: 178 days	181
7	BUSINESS YEAR CODE	Unique key of the year, in which this half year occurred in the Calendar.	20050101
8	BUSINESS YEAR START DAY CODE	Code for calendar year start day	

Table 3–26 shows Business Quarter: It captures information relating to half year in a Business Calender.

Table 3–26 Business Quarter

Sr. Number	Attribute	Description	Sample Value
1	BUSINESS HALF YEAR CODE	Unique key of the half year	20050101
2	BUSINESS HALF YEAR START DAY CODE	Calendar year start date	
3	BUSINESS QUARTER CODE	Unique key of business quarter	20050101
4	BUSINESS QUARTER DESC	Description for business quarter	BY 2005 Q1
5	BUSINESS QUARTER END DATE	Calendar year end date	12/31/2005 0:00
6	BUSINESS QUARTER NUMBER	Number for business quarter	1
7	BUSINESS QUARTER START DATE	Calendar year start date	12/31/2005 0:00
8	BUSINESS QUARTER TIMESPAN	The length, in terms of days, of this quarter	90
9	BUSINESS YEAR CODE	Unique key of the year, in which this half year occurred in the Calendar.	
10	BUSINESS YEAR START DAY CODE	Code for year start date	

Table 3–27 shows Business Month: It captures information relating to a month in a Business Calendar.

Table 3–27 Business Month

Sr. Number	Attribute	Description	Sample Value
1	BUSINESS HALF YEAR CODE	Unique warehouse key for half year	20050101
2	BUSINESS HALF YEAR START DAY CODE	Unique warehouse key for year start day	20050101
3	BUSINESS MONTH CODE	Unique warehouse key of the month, in the Calendar.	20050101
4	BUSINESS MONTH DESC	Calendar month description.	BY 2005 M1
5	BUSINESS MONTH END DATE	Calendar month end date	12/31/2005 0:00
6	BUSINESS MONTH NUMBER	A numeric representation of the month number in the Calendar. It ranges from 1 to 12	1
7	BUSINESS MONTH START DATE	Calendar month start date	12/31/2005 0:00
8	BUSINESS MONTH TIMESPAN	The length, in terms of days, of this month in the Calendar. For example: 30 days	28
9	BUSINESS QUARTER CODE	Unique key of the quarter, in which this month occurred in the Calendar.	20050101
10	BUSINESS QUARTER START DAY CODE	Unique warehouse key for quarter start day	
11	BUSINESS YEAR CODE	Unique warehouse key for year	20050101
12	BUSINESS YEAR START DAY CODE	Unique warehouse key year start day	

Table 3–28 shows Business Half Month: It captures information relating to a Fortnight in a Business Calendar.

Table 3–28 Business Half Month

Sr. Number	Attribute	Description	Sample Value
1	BUSINESS HALF MONTH CODE	Unique warehouse key of the Fortnight, in the Calendar.	20050101
2	BUSINESS HALF MONTH DESC	Calendar half month description.	BY 2005 M1 HM1
3	BUSINESS HALF MONTH END DATE	Calendar half month end date.	12/31/2005 12:00:00 AM
4	BUSINESS HALF MONTH NUMBER	A numeric representation of the fortnight number in the Calendar. It ranges from 1 to 24	1
5	BUSINESS HALF MONTH START DATE	Calendar half month start date	12/31/2005 12:00:00 AM
6	BUSINESS HALF MONTH TIMESPAN	The length, in terms of days, of this fortnight in the Calendar. For example: 15 days	15
7	BUSINESS HALF YEAR CODE	Unique warehouse key for half year	20050101
8	BUSINESS HALF YEAR START DAY CODE	Unique warehouse key for half year start day	20050101
9	BUSINESS MONTH CODE	Unique key of the month, in which this fortnight occurred in the Calendar.	20050101
10	BUSINESS MONTH START DAY CODE	Unique warehouse key for month start day	
11	BUSINESS QUARTER CODE	Unique warehouse key for quarter	20050101
12	BUSINESS QUARTER START DAY CODE	Unique warehouse key for quarter start day	
13	BUSINESS YEAR CODE	Unique warehouse key for year	20050101
14	BUSINESS YEAR START DAY CODE	Unique warehouse key for year start day	

Table 3–29 shows Day: It captures information relating to a Day.

Table 3–29 Day

Sr. Number	Attribute	Description	Sample Value
1	BUSINESS CURRENT IND	Business Current indicator 'Y' or 'N'	
2	BUSINESS DATE	Business date.	
3	BUSINESS DATE DESC	Business Date description.	
4	BUSINESS DAY CODE	Code for Calendar Day	20050101
5	BUSINESS DAY OF YEAR	Business day of year	
6	BUSINESS DAY TIME SPAN	The length, in terms of days, of this fortnight in the Calendar.	
7	BUSINESS END DATE	Business end date.	12/31/2005 12:00:00 AM
8	BUSINESS HALF MONTH CODE	Unique warehouse key for half month	20050101
9	BUSINESS HALF MONTH DESCRIPTION	Calendar half month description.	
10	BUSINESS HALF MONTH END DATE	Calendar half month end date.	12/31/2005 12:00:00 AM
11	BUSINESS HALF MONTH NUMBER	A numeric representation of the fortnight number in the Calendar. It ranges from 1 to 24.	1
12	BUSINESS HALF MONTH START DATE	Calendar half month start date.	12/31/2005 12:00:00 AM

Table 3–29 (Cont.) Day

Sr. Number	Attribute	Description	Sample Value
13	BUSINESS HALF MONTH START DAY CODE	Unique ware house key for half month start day.	20050101
14	BUSINESS HALF MONTH TIMESPAN	The length, in terms of days, of this fortnight in the Calendar. For example: 15 days	15
15	BUSINESS HALF YEAR CODE	Unique warehouse key for half year	20050101
16	BUSINESS HALF YEAR DESC	Business half year description.	
17	BUSINESS HALF YEAR END DATE	Business half year end date.	12/31/2005 12:00:00 AM
18	BUSINESS HALF YEAR NUMBER	Business half year number	
19	BUSINESS HALF YEAR START DATE	Business half year start date	12/31/2005 12:00:00 AM
20	BUSINESS HALF YEAR START DAY CODE	Unique warehouse key for half year start day	20050101
21	BUSINESS HALF YEAR TIMESPAN	The length, in terms of days, of this half year in the Calendar. For example: 178 days	181
22	BUSINESS MONTH CODE	Unique key of the month, in which this fortnight occurred in the Calendar	20050101
23	BUSINESS MONTH DESC	Calendar month description	BY 2005 M1
24	BUSINESS MONTH END DATE	Calendar month end date.	12/31/2005 12:00:00 AM
25	BUSINESS MONTH NUMBER	A numeric representation of the month number in the Calendar. It ranges from 1 to 12.	1
26	BUSINESS MONTH START DATE	Calendar month start date.	12/31/2005 12:00:00 AM
27	BUSINESS MONTH START DAY CODE	Unique warehouse key for month start day	20050101
28	BUSINESS MONTH TIME SPAN	The length, in terms of days, of this month in the Calendar. For example: 30 days	28
29	BUSINESS QUARTER CODE	Unique warehouse key for quarter	20050101
30	BUSINESS QUARTER DESC	Calendar quarter description.	BY 2005 Q1
31	BUSINESS QUARTER END DATE	Business quarter end date.	12/31/2005 12:00:00 AM
32	BUSINESS QUARTER NUMBER	Number for business quarter	
33	BUSINESS QUARTER START DATE	Business quarter start date	12/31/2005 12:00:00 AM
34	BUSINESS QUARTER START DAY CODE	Unique warehouse key for quarter start day	20050101
35	BUSINESS QUARTER TIME SPAN	The length, in terms of days, of this year in the Calendar.	
36	BUSINESS START DATE	Business start date.	12/31/2005 12:00:00 AM
37	BUSINESS WEEK CODE	Unique identifier for business week	20050101
38	BUSINESS WEEK DAY	Business week day.	
39	BUSINESS WEEK DAY CODE	Unique identifier for business week day.	20050101
40	BUSINESS WEEK DAY DESC	Business week day description	
41	BUSINESS WEEK DESC	Business week description.	
42	BUSINESS WEEK END DATE	Business week end date.	12/31/2005 12:00:00 AM
43	BUSINESS WEEK NUMBER	Number for business week	
44	BUSINESS WEEK START DATE	Business week start date.	12/31/2005 12:00:00 AM
45	BUSINESS WEEK START DAY CODE	Unique identifier for business week start day	20050101

Table 3–29 (Cont.) Day

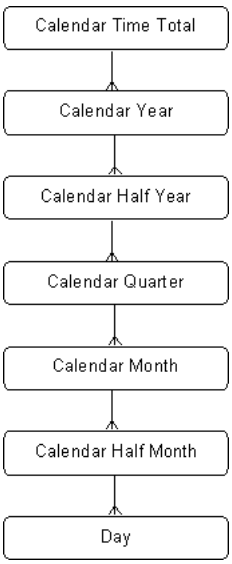
Sr. Number	Attribute	Description	Sample Value
46	BUSINESS WEEK TIME SPAN	The length, in terms of days, of this year in the Calendar.	
47	BUSINESS WEEKEND IND	Weekend indicator 'Y' or 'N'	
48	BUSINESS WORKING DAY IND	Working day indicator 'Y' or "N'	
49	BUSINESS YEAR CODE	Unique warehouse key for year	20050101
50	BUSINESS YEAR DESC	Calendar year description	
51	BUSINESS YEAR END DATE	Calendar year end date.	12/31/2005 12:00:00 AM
52	BUSINESS YEAR NUMBER	Calendar year number.	
53	BUSINESS YEAR START DATE	Calendar year start date.	12/31/2005 12:00:00 AM
54	BUSINESS YEAR START DAY CODE	Unique warehouse key for year start day	20050101
55	BUSINESS YEAR TIMESPAN	The length, in terms of days, of this year in the Calendar. For example: 365 days	365

Calendar Time

Description: Information related to the calendar, including: CALENDAR YEAR, CALENDAR HALF YEAR, CALENDAR QUARTER, CALENDAR MONTH, CALENDAR HALF MONTH, DAY.

Calendar Time Hierarchy

Standard Calendar Time Hierarchy:



Calendar Time Level

Table 3–30 shows Calendar Time Total: This is the most aggregate level of the Time dimension.

Table 3–30 Calendar Time Total

Sr. Number	Attribute	Description
1.	ALL CALENDAR TIME CODE	Identification for the top level value

Table 3–31 shows Calendar Year: It captures information relating to a year in a Business Calender.

Table 3–31 Calendar Year

Sr. Number	Attribute	Description	Sample Value
1	CALENDAR NAME	Textual name of the business Calendar	
2	CALENDAR YEAR CODE	Unique warehouse key of the Year, in the Calendar.	
3	CALENDAR YEAR DESC	Calendar year description.	
4	CALENDAR YEAR END DATE	Calendar year end date.	12/31/2005 12:00:00 AM
5	CALENDAR YEAR NUMBER	Calendar year number.	
6	CALENDAR YEAR START DATE	Calendar year start date.	12/31/2005 0:00
7	CALENDAR YEAR TIMESPAN	The length, in terms of days, of this year in the Calendar. For example: 365 days	

Table 3–32 shows Calendar Half Year: It captures information relating to half year in a Business Calender.

Table 3–32 Calendar Half Year

Sr. Number	Attribute	Description	Sample Value
1	CALENDAR HALF YEAR CODE	Unique warehouse key of the half year, in the Calendar.	
2	CALENDAR HALF YEAR DESC	Calendar half year description.	
3	CALENDAR HALF YEAR END DATE	Calendar half year end date.	12/31/2005 12:00:00 AM
4	CALENDAR HALF YEAR NUMBER	A numeric representation of half year number in the Calendar. It contains values 1 or 2.	
5	CALENDAR HALF YEAR START DATE	Calendar half year start date.	12/31/2005 0:00
6	CALENDAR HALF YEAR TIMESPAN	The length, in terms of days, of this half year in the Calendar. For example: 178 days	
7	CALENDAR YEAR CODE	Unique key of the year, in which this half year occurred in the Calendar.	
8	CALENDAR YEAR START DAY CODE	Code for calendar year start day	

Table 3–33 shows Calendar Quarter: It captures information relating to half year in a Business Calendar.

Table 3–33 Calendar Quarter

Sr. Number	Attribute	Description	Sample Value
1	CALENDAR HALF YEAR CODE	Unique key of the half year	20050101
2	CALENDAR HALF YEAR START DAY CODE	Calendar year start date	20050101
3	CALENDAR QUARTER CODE	Unique key of Calendar quarter	20050101
4	CALENDAR QUARTER DESC	Description for Calendar quarter	CY 2005 Q1
5	CALENDAR QUARTER END DATE	Calendar year end date	12/31/2005 0:00
6	CALENDAR QUARTER NUMBER	Number for Calendar quarter	
7	CALENDAR QUARTER START DATE	Calendar year start date	12/31/2005 0:00

Table 3–33 (Cont.) Calendar Quarter

Sr. Number	Attribute	Description	Sample Value
8	CALENDAR QUARTER TIMESPAN	The length, in terms of days, of this quarter	
9	CALENDAR YEAR CODE	Unique key of the year, in which this half year occurred in the Calendar.	20050101
10	CALENDAR YEAR START DAY CODE	Code for year start date	20050101

Table 3–34 shows Calendar Month: It captures information relating to a month in a Calendar.

Table 3–34 Calendar Month

Sr. Number	Attribute	Description	Sample Value
1	CALENDAR HALF YEAR CODE	Unique warehouse key for half year	20050101
2	CALENDAR HALF YEAR START DAY CODE	Unique warehouse key for year start day	
3	CALENDAR MONTH CODE	Unique warehouse key of the month, in the Calendar.	20050101
4	CALENDAR MONTH DESC	Calendar month description.	
5	CALENDAR MONTH END DATE	Calendar month end date.	12/31/2005 12:00:00 AM
6	CALENDAR MONTH NUMBER	A numeric representation of the month number in the Calendar. It ranges from 1 to 12.	
7	CALENDAR MONTH START DATE	Calendar month start date.	12/31/2005 0:00
8	CALENDAR MONTH TIMESPAN	The length, in terms of days, of this month in the Calendar. For example: 30 days	
9	CALENDAR QUARTER CODE	Unique key of the quarter, in which this month occurred in the Calendar.	20050101
10	CALENDAR QUARTER START DAY CODE	Unique warehouse key for quarter start day	
11	CALENDAR YEAR CODE	Unique warehouse key for year	20050101
12	CALENDAR YEAR START DAY CODE	Unique warehouse key year start day	

Table 3–35 shows Calendar Half Month: It captures information relating to a Fortnight in a Business Calendar.

Table 3–35 Calendar Half Month

Sr. Number	Attribute	Description	Sample Value
1	CALENDAR HALF MONTH CODE	Unique warehouse key of the Fortnight, in the Calendar.	20050101
2	CALENDAR HALF MONTH DESC	Calendar half month description.	
3	CALENDAR HALF MONTH END DATE	Calendar half month end date.	12/31/2005 12:00:00 AM
4	CALENDAR HALF MONTH NUMBER	A numeric representation of the fortnight number in the Calendar. It ranges from 1 to 24.	
5	CALENDAR HALF MONTH START DATE	Calendar half month start date	
6	CALENDAR HALF MONTH TIMESPAN	The length, in terms of days, of this fortnight in the Calendar. For example: 15 days	
7	CALENDAR HALF YEAR CODE	Unique warehouse key for half year.	

Table 3–35 (Cont.) Calendar Half Month

Sr. Number	Attribute	Description	Sample Value
8	CALENDAR HALF YEAR START DAY CODE	Unique warehouse key for half year start day	
9	CALENDAR MONTH CODE	Unique key of the month, in which this fortnight occurred in the Calendar.	20050101
10	CALENDAR MONTH START DAY CODE	Unique warehouse key for month start day	
11	CALENDAR QUARTER CODE	Unique warehouse key for quarter	20050101
12	CALENDAR QUARTER START DAY CODE	Unique warehouse key for quarter start day	
13	CALENDAR YEAR CODE	Unique warehouse key for year	20050101
14	CALENDAR YEAR START DAY CODE	Unique warehouse key for year start day	

Table 3–36 shows Day: It captures information relating to a day.

Table 3–36 Day

Sr. Number	Attribute	Description	Sample Value
1	CALENDAR CURRENT IND	Calendar current indicator 'Y' or 'N'	
2	CALENDAR DATE	Calendar date.	
3	CALENDAR DATE DESC	Calendar date description.	
4	CALENDAR DAY OF YEAR	Calendar day of year.	
5	CALENDAR DAY TIMESPAN	The length, in terms of days.	
6	CALENDAR END DATE	Calendar end date	12/31/2005 0:00
7	CALENDAR HALF MONTH CODE	Calendar Half Month Code	20050101
8	CALENDAR HALF MONTH DESC	Calendar half month description.	
9	CALENDAR HALF MONTH END DATE	Calendar half month end date	12/31/2005 0:00
10	CALENDAR HALF MONTH NUMBER	A numeric representation of the month number in the Calendar. It ranges from 1 to 12.	
11	CALENDAR HALF MONTH START DATE	Calendar half month start date.	12/31/2005 0:00
12	CALENDAR HALF MONTH START DAY CODE	The unique identifier for a calendar half month start day.	
13	CALENDAR HALF MONTH TIMESPAN	The length, in terms of days, of this fortnight in the Calendar. For example: 15 days	
14	CALENDAR HALF YEAR CODE	The unique identifier for a calendar half year.	20050101
15	CALENDAR HALF YEAR DESC	Calendar half year description.	
16	CALENDAR HALF YEAR END DATE	Calendar half year description,	12/31/2005 0:00
17	CALENDAR HALF YEAR NUMBER	A numeric representation of half year number in the Calendar. It contains values 1 or 2.	
18	CALENDAR HALF YEAR START DATE	Calendar half year start date.	12/31/2005 0:00
19	CALENDAR HALF YEAR START DAY CODE	The unique identifier for a calendar half year start day.	20050101
20	CALENDAR HALF YEAR TIME SPAN	The length, in terms of days, of this half year in the Calendar. For example: 178 days	
21	CALENDAR HOLIDAY IND	It indicates holiday indicator 'Y' or 'N'	

Table 3–36 (Cont.) Day

Sr. Number	Attribute	Description	Sample Value
22	CALENDAR MONTH CODE	The unique identifier for a calendar month.	20050101
23	CALENDAR MONTH DESC	Calendar month description.	
24	CALENDAR MONTH END DATE	Calendar month end date.	12/31/2005 0:00
25	CALENDAR MONTH NUMBER	A numeric representation of the month number in the Calendar. It ranges from 1 to 12.	
26	CALENDAR MONTH START DATE	Calendar month start date.	12/31/2005 0:00
27	CALENDAR MONTH START DAY CODE	The unique identifier for a calendar month start day	20050101
28	CALENDAR MONTH TIME SPAN	The length, in terms of days, of this month in the Calendar. For example: 30 days	
29	CALENDAR QUARTER CODE	The unique identifier for calendar quarter.	20050101
30	CALENDAR QUARTER DESC	Calendar quarter description.	
31	CALENDAR QUARTER END DATE	Calendar quarter end date.	12/31/2005 0:00
32	CALENDAR QUARTER NUMBER	Number for Calendar quarter	
33	CALENDAR QUARTER START DATE	Calendar quarter start date.	12/31/2005 0:00
34	CALENDAR QUARTER START DAY CODE	The unique identifier for a calendar quarter start day.	20050101
35	CALENDAR QUARTER TIMESPAN	The length, in terms of days, of this quarter	
36	CALENDAR START DATE	Calendar Start Date	12/31/2005 0:00
37	CALENDAR WEEK CODE	The unique identifier for calendar week.	20050101
38	CALENDAR WEEK DAY	Calendar week day	
39	CALENDAR WEEK DAY CODE	The unique identifier for a calendar week day.	20050101
40	CALENDAR WEEK DAY DESCRIPTION	Calendar week day description.	
41	CALENDAR WEEK DESC	Calendar week description.	
42	CALENDAR WEEK END DATE	Calendar week end date.	12/31/2005 0:00
43	CALENDAR WEEK NUMBER	A numeric representation of the week number in the Calendar.	
44	CALENDAR WEEK START DATE	Calendar week start date	12/31/2005 0:00
45	CALENDAR WEEK TIMESPAN	The length, in terms of days, of this week	
46	CALENDAR WEEKEND IND	It indicates calendar weekend indicator 'Y' or 'N'	
47	CALENDAR WORKING DAY IND	It indicates the calendar working day indicator 'Y' or 'N'	
48	CALENDAR YEAR CODE	The unique identifier for a calendar year.	20050101
49	CALENDAR YEAR DESC	Calendar week description.	
50	CALENDAR YEAR END DATE	Calendar year end date.	12/31/2005 0:00
51	CALENDAR YEAR NUMBER	A numeric representation of the year number in the Calendar.	
52	CALENDAR YEAR START DATE	Calendar year start date.	12/31/2005 0:00
53	CALENDAR YEAR START DAY CODE	The unique identifier for a calendar year starts date.	

Table 3–36 (Cont.) Day

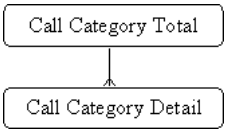
Sr. Number	Attribute	Description	Sample Value
54	CALENDAR YEAR TIME SPAN	The length, in terms of days, of this year in the Calendar. For example: 365 days	
55	CALENDAR WEEK START DAY CODE	The unique identifier for a calendar week starts date.	20050101
56	DAY CODE	The unique identifier for a calendar date	

Call Category

Description: CALL CATEGORY

Call Category Hierarchies

Standard Call Category Hierarchy:



Call Category Levels

Table 3–37 shows Call Category Total: All Call Category are most aggregate level of the dimension.

Table 3–37 Call Category Total

Sr. Number	Attribute	Description
1.	CALL CATEGORY TOTAL	Code for All Call Categories.

Table 3–38 shows Call Category Detail: All Call Category is most aggregate level of the dimension.

Table 3–38 Call Category Detail

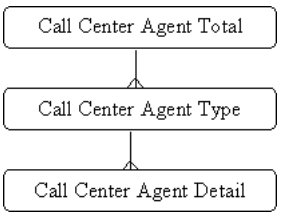
Sr. Number	Attribute	Description	Sample Value
1	CALL CATEGORY CODE	Code for Call Category.	DATA
2	CALL CATEGORY DESC	Description of the Call Category.	Data Call
3	CALL CATEGORY NAME	Short description of the Call Category.	Data Call

Call Center Agent

Description: CALL CENTER AGENT

Call Center Agent Hierarchy

Standard Call Center Agent Hierarchy:



Call Center Agent Levels

Table 3–39 shows Call Center Agent Total: All call center agent are most aggregate level of the dimension.

Table 3–39 Call Center Agent Total

Sr. Number	Attribute	Description
1.	CALL CENTER AGENT TOTAL	Code for All Call Center Agent Subscribers.

Table 3–40 shows Call Center Agent Type: The type of Call Center Agent. Examples includes: Employee, IVR.

Table 3–40 Call Center Agent Type

Sr. Number	Attribute	Description	Sample Value
1	CALL CENTER AGENT TYPE DESC	Description of the Agent type.	AUTO
2	CALL CENTER AGENT TYPE NAME	Name of Agent type.	
3	LANGUAGE CODE	Uniquely identifier of language	
4	CALL CENTER AGENT TYPE CODE		

The next table shows Call Center Agent Detail: Detail level of the dimension. Stores the Call Center Agent Information.

Table 3–41 Call Center Agent Detail

Sr. Number	Attribute	Description	Sample Value
1	CALL CENTER AGENT CODE	All the possible agents with whom the customer can make a contact like IVR, Human Agent, Corporate agent, CRC, and so on.	CODE-1
2	CALL CENTER AGENT DESC	Description of the Agent.	
3	CALL CENTER AGENT NAME	Name of Agent.	HUMAN
4	CALL CENTER AGENT TYPE CODE	Foreign key, to indicate which type this agent is, for example: Auto, Human.	
5	CALL CENTER CODE	Uniquely identifier of call center	
6			
7	BILLING ADDRESS EFFECTIVE DATE	Date on which the billing address referenced in the billing_address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months.""	
8	BUSINESS DIVISION EXECUTIVE NAME	BUSINESS DIVISION EXECUTIVE LAST NAME is the last name of the business division executive to whom the employee reports to. Like LOB Owner.	
9	BUSINESS PHONE NUMBER	Phone number used for business purpose	
10	CELL PHONE NO	Redundancy to 'party contact information'	
11	CHILDREN COUNT	Number of children	
12	CONTACT ADDRESS EFFECTIVE DATE	Date on which the contact address referenced in the billing_address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months.""	
13	COST CENTER NUMBER	The cost center to which the bank employee expenses are charged.	
14	DATE OF BIRTH	Date of Birth of the individual.	
15	DATE OF DEATH	Date of natural person death.	

Table 3–41 (Cont.) Call Center Agent Detail

Sr. Number	Attribute	Description	Sample Value
16	DEATH CERTIFICATE CODE	The certification document number for customer's death.	
17	DEPENDENTS COUNT	Number of dependents	
18	DRIVER LICENSE NUMBER	Driver License Number in most countries.	
19	DWELLING SIZE	Size of dwelling	
20	DWELLING TENURE	Tenure of dwelling	
21	ECONOMICALLY ACTIVE IND	customer is economically active (is not a minor or pensioner and so on.)	
22	EDUCATION CODE	The customer highest level of education.	
23	EMAIL	Redundancy to 'party contact information'	
24	EMPLOYEE CODE	A code for any person or business that is of interest to the Communications Service Provider.	
25	EMPLOYEE DESIGNATION CODE	Unique warehouse key, representing the designation	
26	EMPLOYEE DISCOUNT GROUP CODE	Unique identifier for Employee Discount Group	
27	EMPLOYEE KEY	Key value for each employee	
28	EMPLOYEE NUMBER	Internal number for the employee.	
29	EMPLOYEE TYPE CODE	Unique identifier for Employee Type	PT
30	EMPLOYEE TYPE DESC	Description of the Employee Type	Part Time
31	EMPLOYEE TYPE NAME	Unique identifier for the Employee Type	Part Time
32	EMPLOYER TAX NUMBER	The tax code of Employer.	
33	EMPLOYMENT BEGIN DATE	Start date for the employment.	12/31/2005 12:00:00 AM
34	EMPLOYMENT END DATE	If the employee quit, holds the information of past employment.	
35	EMPLOYMENT EXEMPT IND	An employee is exempt from the overtime policies due to the nature of the work, as compared to (Non-Exempt). Education requirements of the position and salary range. These employees are paid an annual salary and are not customarily eligible for overtime pay.	
36	EMPLOYMENT STATUS	EMPLOYEE STATUS is the abbreviated identifier for the employment status. Employee	
37	END OF JOB CONTRACT	End date of the customer's job contract (for contracts concluded for definite terms).	
38	ETHNIC BACKGROUND	Customer Attribute of an employee	
39	ETHNICITY	Classifies the individual for minority reporting purposes.	
40	FAMILY NAME IN MAIDEN	Given name in maiden	
41	FIRST NAME	First name of a party individual	
42	FORM OF EMPLOYMENT	The customer's form of employment (private entrepreneur, employee, civil servant and so on.)	
43	GENDER CODE	For PARTYs that are people, this is their GENDER. For PARTYs that are organizations, this is indicates whether the organization is foreign or domestically owned.	
44	GIVEN NAME IN MAIDEN	Given name in maiden	
45	HOME TELEPHONE NO	Redundance to 'party contact information'	
46	HOUSEHOLD KEY	The code of household which the party belongs to.	

Table 3–41 (Cont.) Call Center Agent Detail

Sr. Number	Attribute	Description	Sample Value
47	INCOME	Income of a party individual	
48	INCOME LCL	Income of a party individual	
49	INCOME RPT	Income of a party individual	
50	JOB CONTRACT TYPE	Type of the customer's job contract	
51	JOB KEY	Code for job of subscriber.	
52	JOB POSITION	job Position.	
53	LANGUAGE CODE	Unique identifier for Language	
54	LAST NAME	Last name of a party individual	
55	LAST PERFORMANCE RATING	This describes the annual rating assigned to the employee.	
56	LAST PERFORMANCE RATING DATE	When the last rating is done.	
57	LEGAL TITLE TO HOUSING	The customer's legal title to home (rents, owns and so on.)	
58	LIVING AT CURRENT ADDRESS SINCE	Date since the customer has lived at the present address.	
59	MANAGER CODE	manager's employee code.	
60	MARITAL STATUS	CSALADI ALLAPOT. Marital status	
61	MARTIAL STATUS CODE		
62	MIDDLE NAME	Middle name of a party individual	
63	MOTHER FIRST NAME	Mother's first name	
64	MOTHER LAST NAME	Mother's last name	
65	NAME OF WORKPLACE	Name of workplace	
66	NAME PREFIX	Name prefix For example: Mr, Mrs, Ms, Dr,	
67	NAME SUFFIX	Name suffix. For example: PhD, MD, JD, MA	
68	NATIONALITY CODE	Code for Nationality of subscriber	
69	NUMBER OF EARNERS IN HOUSEHOLD	Number of wage earners in the household.	
70	NUMBER OF PERSONS LIVING IN HOUSEHOLD	Number of persons sharing the customer's household.	
72	OFFICE TELEPHONE NO	Redundancy to 'party contact information'	
73	ORGANIZATION BUSINESS UNIT KEY		
74	PERSONAL ID NUMBER		
75	PLACE OF BIRTH	Where the person was born.	
76	PREVIOUS EMPLOYER TAX NUMBER	Tax number of previous employer.	
77	PREVIOUS EMPLOYMENT END DATE	End date of previous job.	
78	PREVIOUS EMPLOYMENT START DATE	Start date of previous job.	12/31/2005 12:00:00 AM
79	SOC JOB KEY		
80	SOCIAL SECURITY NUMBER	Null if a country does not have this number.	
81	SOURCE OF INCOME	Source of income (can typify, may be several)	
82	START OF EMPLOYMENT	Start of employment	
83	TAX NUMBER	Tax number	
84	ACTIVE IND	Activate Indicator	
85	ADDRESS	Address	

Table 3–41 (Cont.) Call Center Agent Detail

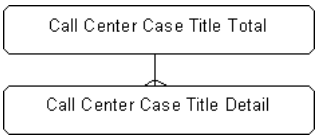
Sr. Number	Attribute	Description	Sample Value
86	BARING REASON CODE	Unique identifier for Baring Reason	
87	BUSINESS LEGAL STATUS CODE	A unique identifier for a legal classification of a non-residential Customer.	
88	CITY	City of the party. Redundance to party location history.	
89	COUNTRY	Country of the party. Redundance to party location history.	
90	CUSTOMER IND	Indicator for Customer	
91	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	
92	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	
93	EMPLOYEE NAME	Name of the employee	
94	PARTY DESC	Description for the Party	
95	PARTY KEY	Key value for Party	
96	PARTY NAME	Name of the Party	
97	PARTY TYPE CODE	Unique identifier for Party Type	
98	POST CODE	Unique identifier for Post	
99	SOURCE SYSTEM KEY	Key value for Source System	
100	STATE	State Name	
101	STATUS CODE	Current Status	

Call Center Case Title

Description: CALL CENTER CASE TITLE

Call Center Case Title Hierarchies

Standard Call Center Case Title Hierarchy:



Call Center Case Levels

Table 3–42 shows Call Center Case Title Total: All call center case title are most aggregate level of the dimension.

Table 3–42 Call Center Case Title Total

Sr. Number	Attribute	Description
1.	CALL CENTER CASE TITLE TOTAL	Total of all call center case titles.

Table 3–43 shows Call Center Case Title Detail: Detail level of the dimension. Stores the Call Center Case Title Information.

Table 3–43 Call Center Case Title Detail

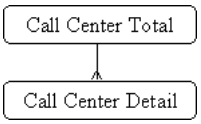
Sr. Number	Attribute	Description	Sample Value
1	CALL CENTER CASE SUB TYPE CODE	Code or Id for Call Center Case Sub Type.	
2	CALL CENTER CASE TITLE CODE	Code or Id for Call Center Case Title.	CBPWD
3	CALL CENTER CASE TITLE DESC	Description of the Call Center Case Title.	
4	CALL CENTER CASE TITLE NAME	Name of Call Center Case Title.	
5	LANGUAGE CODE	Uniquely identifier of language	

Call Center

Description: CALL CENTER

Call Center Hierarchies

Standard Call Center Hierarchy:



Call Center Levels

Table 3–44 shows Call Center Total: All call centers is most aggregate level of the dimension.

Table 3–44 Call Center Total

Sr. Number	Attribute	Description
1.	CALL CENTER TOTAL	Code for All Call Centers.

Table 3–45 shows Call Center: Detail level of the dimension. Stores the Call Center Information.

Table 3–45 Call Center Detail

Sr. Number	Attribute	Description
1	CALL CENTER CODE	CODE-1
2	NUMBER OF EMPLOYEES	NUMBER OF EMPLOYEES.
3	NUMBER OF LINES	How many telephone lines (trunk) are offered.
4	PRIMARY LANGUAGE	The language/Dialects the call center can support.
5	ACCOUNT CLERK CODE	This field is client specific. The definition and use of this field is customizable for each client.
6	ADDRESS LINE 1	Address. Line one of detailed postal address
7	ADDRESS LINE 2	Address. Line two of detailed postal address
8	ADDRESS LINE 3	Address. Line three of detailed postal address
9	ADDRESS LOCATION CODE	Unique identifier for the address. unique identifier for the address location
10	ADDRESS TYPE CODE	Unique identifier of the address type.
11	ADDRESS USAGE	Describes how the address is used
12	ANNUAL REVENUE	Revenue of the company.
13	ANNUAL REVENUE LOCAL	Revenue of the company.
14	ANNUAL REVENUE REPORTING	Revenue of the company.

Table 3–45 (Cont.) Call Center Detail

Sr. Number	Attribute	Description
15	ANNUAL SALES	Sales for Annual
16	ANNUAL SALES LOCAL	Local Sales for Annual
17	ANNUAL SALES REPORTING	Reporting Sales for Annual
18	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company is undergoing the bankruptcy process.
19	BANKRUPTCY START DATE	start date of bankruptcy.
20	BUSINESS ENTITY CODE	Unique Identifier for Business Entity
21	BUSINESS UNIT CONCEPT	Possible values include, Convenience, General Merchandise, Category dominant anchors with few small tenants, Fashion, Higher-end (Upscale), Fashion oriented, Manufacturer's Outlet, Leisure, Tourist oriented and Discount.
22	BUSINESS UNIT TYPE CODE	Unique identifier of the business unit type
23	CHAIRMAN CODE	Connect to Another Person Party who is responsible for this Organization.
24	CHANNEL TYPE CODE	Unique identifier of the channel type
25	COMPANY REGISTRY NUMBER	Will be same as Party. National_Identifier. Natural Key for Organization.
26	CONSTRUCTION STATUS	Identifies the status of the site such as 'Under Construction', 'New', and so on.
27	CONTACT CODE	ID of the contact person for the organization.
28	CONTACT NAME	Contact Employee for organization.
29	CONTACT NUMBER	This is the number for the method specified to contact this site. There can be multiple contact numbers of each type for each site.
30	CONTACT TYPE CODE	This is the general method to use to contact a site, that is, Phone, Fax, Telex, and so on.
31	COURT CODE	Code of the law of court.
32	DOMESTIC INDICATOR	For PARTYs that are organizations, this indicates whether the organization is foreign or domestically owned.
33	DUNS NUMBER	DUNS NUMBER is an identifier for organization.
34	EMPLOYEE COUNT	Total number of employee in the company or organization.
35	EQUITY AMOUNT	The equity value of the company/org.
36	EQUITY AMOUNT LOCAL	The equity value of the company/org.
37	EQUITY AMOUNT REPORTING	The equity value of the company/org.
38	EXTERNAL NAME	Name/Number assigned to site for electronic communication. For example: EDI transactions.
39	FINAL SETTLEMENT END DATE	End date of final settlement.
40	FINAL SETTLEMENT START DATE	Start date of final settlement
41	JUDICIAL DISTRAINT CODE	Case identifier of the judicial distraint
42	JUDICIAL DISTRAINT DATE	Date of the judicial distraint
43	LIQUIDATION END DATE	The date when the company/org was liquidated. If is null and start_date is not null, the company is undergoing the liquidation.
44	LIQUIDATION START DATE	Start date of liquidation
45	LOCATION TYPE CODE	Unique identifier for location type
46	LONG DESCRIPTION	The 10 character abbreviation of the store name
47	MANAGER CODE	ID of the manager for the organization.
48	MANAGER EMPLOYEE NUMBER	Unique key denoting the employee number of the employee's manager.

Table 3–45 (Cont.) Call Center Detail

Sr. Number	Attribute	Description
49	MANAGER NAME	Name of manager for the whole company.
50	ORGANIZATION BANNER CODE	
51	ORGANIZATION BUSINESS UNIT CODE	Unique identifier for Business Unit. To identify whether the site is a store, distribution center or warehouse.
52	ORGANIZATION BUSINESS UNIT TYPE CODE	Unique identifier for Organization business unit type
53	ORGANIZATION CODE	The unique identifier of the organization
54	ORGANIZATION DISTRICT CODE	District code of ORGANIZATION DISTRICT
55	ORGANIZATION DIVISION CODE	Division code of a ORGANIZATION
56	ORGANIZATION NAME	Name of the organization
57	ORGANIZATIONAL DEMOGRAPHY VALUE CODE	Unique identifier for organization demographic value
58	PAYMENT ACCOUNT CLOSE DATE	Closing date of the account for payments.
59	PAYMENT ACCOUNT NUMBER	Account number for payments.
60	PAYMENT ACCOUNT OPEN DATE	Opening date of the account for payments.
61	POSTAL PLUS CODE	Four digit extension to the United States Postal ZIP code.
62	POSTCODE	Postal codes of interest to the Retail Organization
63	PRIMARY ADDRESS TELEPHONE	Default Address Telephone Number
64	PRIMARY BUSINESS UNIT CALENDAR CODE	Primary Business Unit Calendar Code
65	PRIMARY CURRENCY ISO CODE	The unique ISO standard identifier of the CURRENCY
66	PRIMARY EMAIL ADDRESS	Default Email Address
67	PRIMARY MARKET AREA CODE	Market area code under which the business unit falls
68	PRIMARY TRADE AREA CODE	Primary Trade area code, under which the business unit falls
69	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.
70	SECONDARY DESCRIPTION	The secondary description or name of the store or warehouse.
72	SHOPPING CENTER TYPE	Shopping center is group of retail and other commercial establishments that is planned, developed, owned, and managed as a single property.=- Strip Center (Neighborhood, Community)- Mall (Power, Super Regional, Regional, Fashion/Specialty, Lifestyle, Outlet, Theme/Festival)
73	SHORT DESCRIPTION	The 3 character abbreviation of the store name.
74	STOCK EXCHANGE NAME	Abbreviation of listed companies as used on the stock exchange.
75	TAX EXEMPT STATUS	Indicates if the org. is tax exempt.
76	TERMINATION DATE	Termination date of the company in case of company was founded with termination date.
77	TIME ZONE	It denotes which TimeZone the Site is in.
78	TOTAL LINEAR DISTANCE	The total linear selling space of the location.
79	VALIDATION END DATE	Effective date of the deletion of the company's record from the company register.
70	SECONDARY DESCRIPTION	The secondary description or name of the store or warehouse.

Table 3–45 (Cont.) Call Center Detail

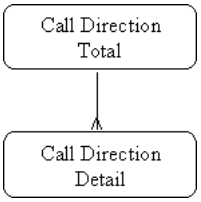
Sr. Number	Attribute	Description
80	VALIDATION START DATE	Date of the registration of the company' record deletion from the company register.
81	VAT INCLUDE INDICATOR	Indicates whether the Value Added Tax will be included in the retail prices for the store. Valid values are 'Y' or 'N'
82	VAT REGION	The number of the Value Added Tax region in which this store or warehouse is contained.
83	PARTY CODE	
84	PARTY TYPE CODE	
85	BUSINESS LEGAL STATUS CODE	
86	SOURCE SYSTEM CODE	
87	BARING REASON CODE	
88	STATUS CODE	
89	CITY	
90	STATE	
91	COUNTRY	
92	PARTY NAME	
93	PARTY DESC	
94	ADDRESS	
95	ACTIVE INDICATOR	
96	CUSTOMER INDICATOR	
97	EFFECTIVE FROM DATE	
98	EFFECTIVE TO DATE	

Call Direction

Description: CALL DIRECTION

Call Direction Hierarchies

Standard Call Direction Hierarchy:



Call Direction Levels

Table 3–46 shows Call Direction Total: All Call Directions are most aggregate level of the dimension.

Table 3–46 Call Direction Total

Sr. Number	Attribute	Description
1.	ALL CALL DIRECTION CODE	Code for Call Directions.

Table 3–47 shows Call Direction Detail: Detail level of the dimension. Stores the Call Direction Information.

Table 3–47 Call Direction Detail

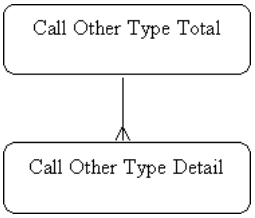
Sr. Number	Attribute	Description	Sample Value
1	CALL DIRECTION CODE	Code for call direction.	IN
2	CALL DIRECTION DESC	Description of call direction.	To indicate incoming call
3	CALL DIRECTION NAME	Name of the call direction.	IN
4	LANGUAGE CODE	Unique identifier for Language	

Call Other Type

Description: `CALL OTHER TYPE`

Call Other Type Hierarchies

Standard Call Other Type Hierarchy:



Call Other Type Levels

Table 3–48 shows Call Other Type Total: All Call Other Types are most aggregate level of the dimension.

Table 3–48 Call Other Type Total

Sr. Number	Attribute	Description
1.	ALL CALL OTHER TYPE CODE	Code for Call Other Types.

Table 3–49 shows Call Other Type Detail: Detail level of the dimension. Stores the Call other Type Information.

Table 3–49 Call Other Type Detail

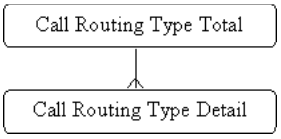
Sr. Number	Attribute	Description	Sample Value
1	CALL OTHER TYPE CODE	A code used to uniquely identify a category of Special Services that a Call may utilize. Examples include: 1 - Directory Assistance 2 - 800 3 - 900 4 - 911 5 - Customer Service 6 - Voice Mail.	CUSTSRVC
2	CALL OTHER TYPE DESC	A textual description of a Call Special Service Type.	Customer Service
3	CALL OTHER TYPE NAME	The name assigned to a Call Special Service Type. Examples include: Directory Assistance 800 900 911 Customer Service Voice Mail.	Customer Service
4	LANGUAGE CODE	Unique identifier for Language	

Call Routing Type

Description: `CALL ROUTING TYPE`

Call Routing Type Hierarchies

Standard Call Routing Type Hierarchy:



Call Routing Type Levels

Table 3–50 shows Call Routing Type Total: All Call Routing Type are most aggregate level of the dimension.

Table 3–50 Call Routing Type Total

Sr. Number	Attribute	Description
1.	ALL CALL ROUTING CODE	Code for All Call Routing Subscribers.

Table shows Call Routing Type Detail: Detail level of the dimension. Stores the Call Routing Type Information.

Table 3–51 Call Routing Type Detail

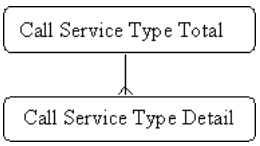
Sr. Number	Attribute	Description	Sample Value
1	CALL ROUTING TYPE CODE	The code for the type can use number or character.	ATA
2	CALL ROUTING TYPE DESC	Full Description.	Call was routed from Air To Air
3	CALL ROUTING TYPE NAME	The short name for the type.	Air To Air
4	LANGUAGE CODE	Uniquely identifier of language	

Call Service Type

Description: `CALL SERVICE TYPE`

Call Service Type Hierarchies

Standard Service Type Hierarchy:



Call Service Type Levels

Table 3–52 shows Call Service Type Total: All Call Service Type are most aggregate level of the dimension.

Table 3–52 Call Service Type Total

Sr. Number	Attribute	Description
1.	CALL SERVICE TYPE TOTAL CODE	Code for All Call Service Type.

Table 3–53 shows Call Service Type Detail: Detail level of the dimension. Stores the Call Service Type Information.

Table 3–53 Call Service Type Detail

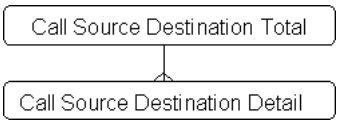
Sr. Number	Attribute	Description	Sample Value
1	CALL SERVICE TYPE CODE	The code.	1
2	CALL SERVICE TYPE DESC	The full description.	Fire
3	CALL SERVICE TYPE NAME	The title.	Fire
4	LANGUAGE CODE	Uniquely identifier of language	

Call Source Destination

Description: CALL SOURCE DESTINATION

Call Source Destination Hierarchies

Standard Call Source Destination Hierarchy:



Call Source Destination Levels

Table 3–54 shows Call Source Destination Total: All Call Source Destination are most aggregate level of the dimension.

Table 3–54 Call Source Destination Total

Sr. Number	Attribute	Description
1.	CALL SOURCE DESTINATION TOTAL	Code for All Call Source Destination

Table 3–55 shows Call Source Destination Detail: Detail level of the dimension. Stores the Call Source Destination Information.

Table 3–55 Call Source Destination Detail

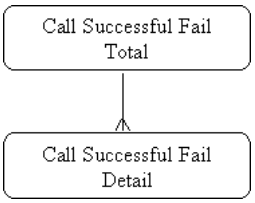
Sr. Number	Attribute	Description	Sample Value
1	CALL SOURCE DESTINATION CODE	Code for call destination.	8675583965191
2	CALL SOURCE DESTINATION DESC	Description of call destination.	8675583965191
3	CALL SOURCE DESTINATION NAME	Name of the destination.	8675583965191
4	DESTINATION TYPE CODE	Unique identifier of destination type.	
5	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
6	EFFECTIVE TO DATE	Date the party left the program. Will be null if the party is currently a member of the program.	
7	NETWORK TYPE CODE	Unique identifier of destination network type.	
8	NUMBER AREA CODE	Area code. For example: 713-Houston	
9	NUMBER NETWORK TYPE CODE	Unique identifier of destination network type.	
10	STATUS CODE	Current status of the assignment.	

Call Success Fail Type

Description: CALL SUCCESS FAILURE TYPE

Call Successful Fail Hierarchies

Standard Call Success Fail Hierarchy:



Call Success Fail Type Levels

Table 3–56 shows Call Successful Fail Total: All Call Successful/failed is most aggregate level of the dimension.

Table 3–56 Call Successful Fail Total

Sr. Number	Attribute	Description
1.	ALL SUCCESSFUL/FAILED CODE	Code for All Call Successful/failed.

Table 3–57 shows Call Successful Fail Detail: Detail level of the dimension. Stores the Successful/failed Detail Information.

Table 3–57 Call Successful Fail Detail

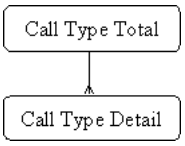
Sr. Number	Attribute	Description	Sample Value
1	CALL SUCCESS FAILURE TYPE CODE	Call Success failure id.	FAIL
2	CALL SUCCESS FAILURE TYPE DESC	Call Success failure description.	Fail
3	CALL SUCCESS FAILURE TYPE NAME	Call Success failure short description.	Fail
4	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Call Type

Description: CALL TYPE

Call Type Hierarchies

Standard Call Type Hierarchy:



Call Type Levels

Table 3–58 shows Call Type Total: All Call Type are most aggregate level of the dimension.

Table 3–58 Call Type Total

Sr. Number	Attribute	Description
1.	ALL CALL TYPE CODE	Code for All Call Type Subscribers.

Table 3–59 shows Call Type Detail: Detail level of the dimension. Stores the Call Type Information.

Table 3–59 Call Type Detail

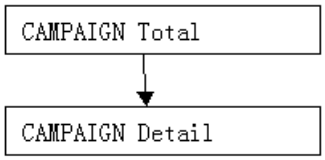
Sr. Number	Attribute	Description	Sample Value
1	CALL CATEGORY CODE	The code for the call category.	VOI
2	CALL TYPE CODE	The code for the call type.	INTL
3	CALL TYPE DESC	The Full Description.	International
4	CALL TYPE NAME	The title.	International
5	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Campaign

Description: CAMPAIGN

Campaign Hierarchies

Standard CAMPAIGN Hierarchy:



Campaign Levels

The following table shows CAMPAIGN Total: All CAMPAIGN is the most aggregate level of the dimension.

Table for CAMPAIGN Total

Sr. Number	Attribute	Description
1.	CAMPAIGN TOTAL	Code for All CAMPAIGN.

Detail table shows CAMPAIGN Detail: All CAMPAIGN types is the most aggregate level of the dimension.

Detail table CAMPAIGN Detail

Sr. Number	Attribute	Description
1	CAMPAIGN DESC	A textual description of the Campaign.
2	PRIORITY	Campaign priority
3	PLANNED RESPONSE	Expected or planned response for the campaign.
4	GLOBAL IND	Flag to indicate if the campaign is run globally.
5	PARTNER NUMBER	Identification number for partner.

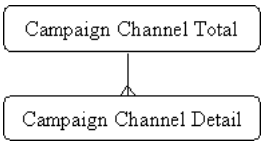
6	COST CODE	Identify the cost to the Carrier.
7	PARTNER IND	Indicates if the campaign has partners
8	PLANNED COST	Planned or budgeted total cost for the campaign.
9	PLANNED COST LOCAL	Planned or budgeted total cost for the campaign.
10	PLANNED COST REPORTING	Planned or budgeted total cost for the campaign.
11	FUND SOURCE CODE	Possible values would include, Vendor Sponsored, Charity, and so on.
12	EFFECTIVE TO DATE	The end date of a Campaign
13	COST AMOUNT REPORTING	The monetary cost of a Campaign.
14	COST AMOUNT LOCAL	The monetary cost of a Campaign.
15	COST AMOUNT	The monetary cost of a Campaign.
16	CAMPAIGN PURPOSE	The purpose of the campaign being conducted, in most of scenarios this field would be empty since this would be addressed in the Theme and Promotion Theme. But in the cases this campaign is being executed as a continuation of a previous campaign due to demand this field would contain the reason for that.
17	EFFECTIVE FROM DATE	The start date of a Campaign
18	CAMPAIGN TYPE CODE	
19	CAMPAIGN CODE	
20	CAMPAIGN NAME	
21	CAMPAIGN PURPOSE TYPE CODE	
22	CAMPAIGN STATUS CODE	

Campaign Channel

Description: CAMPAIGN CHANNEL

Campaign Channel Hierarchies

Standard Campaign Channel Hierarchy:



Campaign Channel Levels

Table 3–60 shows Campaign Channel Total: All Campaign Channels are most aggregate level of the dimension.

Table 3–60 Campaign Channel Total

Sr. Number	Attribute	Description
1.	ALL CAMPAIGN CHANNEL CODE	Code for All Campaign Channel.

Table 3–61 shows Campaign Channel Detail: Detail level of the dimension. Stores the Campaign Channel Information.

Table 3–61 Campaign Channel Detail

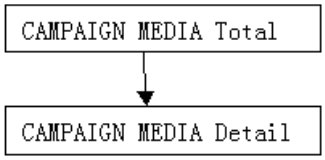
Sr. Number	Attribute	Description	Sample Value
1	CAMPAIGN CHANNEL CODE	A unique identifier for a campaign channel.	MAGAZINE
2	CAMPAIGN CHANNEL DESC	The name assigned to a campaign channel.	
3	CAMPAIGN CHANNEL NAME	A textual description of an campaign channel.	
4	CAMPAIGN CHANNEL TYPE CODE	A code used to uniquely identify a campaign channel type.	MGZN
5	CAPACITY QUANTITY	The number of transaction that a Channel can handle, at a point of time.	
6	CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	
7	CHANNEL DESC	Descriptions of the channels	
8	CHANNEL NAME	The name assigned to a channel.	
9	CHANNEL TYPE CODE	A code used to uniquely identify a major grouping of Channels. Examples: M - MailT - Telephone TV - Television.	LYLTCHNL
10	EFFECTIVE FROM DATE	The first date of the period when this Channel was valid.	12/31/2005 12:00:00 AM
11	EFFECTIVE TO DATE	The end date of the period when this Channel was valid.	12/31/2005 12:00:00 AM
12	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	
13	PARTY TYPE CODE	Type of party	RPRSTTV
14	STATUS CODE	Current status.	

Campaign Media

Description: CAMPAIGN MEDIA

Campaign Media Hierarchies

Standard CAMPAIGN MEDIA Hierarchy:



Campaign Media Levels

The following table shows CAMPAIGN MEDIA Total: All CAMPAIGN MEDIA is the most aggregate level of the dimension.

Table for CAMPAIGN MEDIA Total

Sr. Number	Attribute	Description
1.	CAMPAIGN MEDIA TOTAL	Code for All CAMPAIGN MEDIA.

Detail table shows CAMPAIGN MEDIA Detail: All CAMPAIGN MEDIA types is the most aggregate level of the dimension.

Detail table CAMPAIGN MEDIA Detail

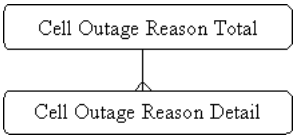
Sr. Number	Attribute
1	EVENT NUMBER
2	EFFECT FROM DATE
3	EFFECT TO DATE
4	STATUS CODE
5	CURRENT INDICATOR
6	LONG DSCR
7	LOAD DATE
8	LAST UPDATE DATE
9	LAST UPDATE BY
10	MEDIA TYPE CODE
11	MEDIA CODE
12	VEHICLE
13	ACT STRT DATE
14	W ID
15	CAMPAIGN CODE
16	COMMUNICATION TYPE CODE
17	CAMPAIGN MEDIA CODE
18	SHORT DSCR
19	CAMPAIGN MEDIA CODE _1

Cell Outage Reason

Description: CELL OUTAGE REASON

Cell Outage Reason Hierarchies

Standard Cell Outage Reason Hierarchy:



Cell Outage Levels

Table 3–62 shows Cell Outage Reason Total: All Cell Outage Reason is most aggregate level of the dimension.

Table 3–62 Cell Outage Reason Total

Sr. Number	Attribute	Description
1.	ALL CELL OUTAGE REASON CODE	Code for All Cell Outage Reason.

Table 3–63 shows Cell Outage Reason Detail: Detail level of the dimension. Stores the Cell Outage Reason Information.

Table 3–63 Cell Outage Reason Detail

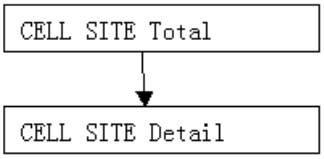
Sr. Number	Attribute	Description	Sample Value
1	CELL OUTAGE REASON CODE	Cause for cell outage.	FAIL
2	CELL OUTAGE REASON DESC	Description of CELL OUTAGE REASON	Fail
3	CELL OUTAGE REASON NAME	Name of the CELL OUTAGE REASON	Fail
4	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Cell Site

Description: CELL SITE

Cell Site Hierarchies

Standard CELL SITE Hierarchy:



Cell Site Levels

The following table shows CELL SITE Total: All CELL SITE is the most aggregate level of the dimension.

Table for CELL SITE Total

Sr. Number	Attribute	Description
1.	CELL SITE TOTAL	Code for All CELL SITE.

Detail table shows CELL SITE Detail: All CELL SITE types is the most aggregate level of the dimension.

Detail table CELL SITE Detail

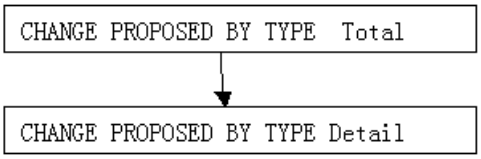
Sr. Number	Attribute	Description
1	CELL SITE TYPE CODE	Code.
2	LOCATION AREA CODE	ID of the location area of the mobile equipment.
3	CELL SITE CODE	The serial number for the cell site.
4	CELL SITE TYPE CODE2	
5	CELL SITE NAME	
6	CELL SITE DESC	

Change Proposed By Type

Description: CHANGE PROPOSED BY TYPE

Change Proposed By Type

Standard CHANGE PROPOSED BY TYPE Hierarchy:



Change Proposed By Type

The following table shows CHANGE PROPOSED BY TYPE Total: All CHANGE PROPOSED BY TYPE is the most aggregate level of the dimension.

Table for CHANGE PROPOSED BY TYPE Total

Sr. Number	Attribute	Description
1.	CHANGE PROPOSED BY TYPE TOTAL	Code for All CHANGE PROPOSED BY TYPE.

Detail table shows CHANGE PROPOSED BY TYPE Detail: All CHANGE PROPOSED BY TYPE types is the most aggregate level of the dimension.

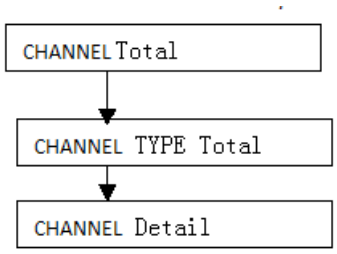
Sr. Number	Attribute
1	CHANGE PROPOSED BY TYPE CODE
2	CHANGE PROPOSED BY TYPE DESC
3	CHANGE PROPOSED BY TYPE NAME
4	LANGUAGE CODE

Channel

Description: CHANNEL

Channel Hierarchies

Standard Channel Hierarchy:



Channel Levels

The following table shows CHANNEL Total: All CHANNEL is the most aggregate level of the dimension.

Table for CHANNEL Total

Sr. Number	Attribute	Description
1.	ALL CHANNEL CODE	Identification for the top level value

Table shows CHANNEL TYPE

Sr. Number	Attribute	Description
1	CHANNEL TYPE NAME	A code used to uniquely identify a major grouping of Channels, such as Mail, Telephone, Television.
2	CHANNEL TYPE CODE	A code used to uniquely identify a major grouping of Channels. Examples:M - MailT - Telephone TV - Television
3	CHANNEL TYPE DESC	A textual description of a Channel Type.
4	LANGUAGE CODE	

Detail table **CHANNEL** Detail

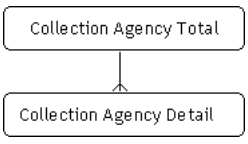
Sr. Number	Attribute	Description
1	PARTY CODE1	A code for any person or business that is of interest to the Communications Service Provider.
2	STATUS CODE	Current status
3	EFFECTIVE TO DATE	The end date of the period when this Channel was valid
4	EFFECTIVE FROM DATE	The first date of the period when this Channel was valid
5	CHANNEL NAME	The name assigned to a channel.
6	CAPACITY QUANTITY	The number of transaction that a Channel can handle, at a point of time.
7	CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.
8	PARTY TYPE CODE	
9	CHANNEL TYPE CODE2	
10	CHANNEL DESC	

Collection Agency

Description: `COLLECTION AGENCY`

Collection Agency Hierarchies

Standard Collection Agency Hierarchy:



Collection Agency Levels

Table 3–64 shows Collection Agency Total: This is the most aggregate level of the Debt Aging Band dimension.

Table 3–64 Collection Agency Total

Sr. Number	Attribute	Description
1.	ALL COLLECTION AGENCY TOTAL CODE	Identification for the top level value

Table 3–65 shows Collection Agency Detail: Description level of the dimension. It stores the Collection Agency details.

Table 3–65 Collection Agency Detail

Sr. Number	Attribute	Description	Sample Value
1	ANNUAL REVENUE	Revenue of the company.	
2	ANNUAL REVENUE LOCAL	Revenue of the company.	
3	ANNUAL REVENUE REPORTING	Revenue of the company.	
4	ANNUAL SALES	Sales for annual	
5	ANNUAL SALES LOCAL	Local sales for annual	
6	ANNUAL SALES REPORTING	Reporting sales for annual	
7	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company is undergoing the bankruptcy process.	12/31/2005 12:00:00 AM
8	BANKRUPTCY START DATE	Start date of bankruptcy.	12/31/2005 12:00:00 AM
9	CAMPAIGN PARTNER CODE	CAMPAIGN PARTNER CODE is the code to track campaign partner.	
10	CAMPAIGN PARTNER INDICATOR	to indicator this is a campaign partner. The campaign partner can be an external organization or even another Telecommunications operator. The service provider can partner with another service provider if their business is complementary, like 1 wireless operator and 1 local fixed line company. Most of content provider can also partner with the telco for promotion.	
11	CHAIRMAN CODE	Connect to Another Person Party who is responsible for this Organization.	
12	COLLECTION AGENCY CODE	A code for any person or business that is of interest to the Communications Service Provider.	1,2,3
13	COMPANY REGISTRY NUMBER	Will be same as Party. National_Identifier. Natural Key for Organization.	
14	CONTACT CODE	ID of the contact person for the organization.	
15	CONTACT NAME	Contact Employee for organization.	
16	COURT CODE	Code of the law of court.	
17	DOMESTIC INDICATOR	For PARTYs that are organizations, this indicates whether the organization is foreign or domestically owned.	
18	DUNS NUMBER	DUNS NUMBER is an identifier for organization.	
19	EMPLOYEE COUNT	Total number of employee in the company or organization.	
20	EQUITY AMOUNT	The equity value of the company/org.	
21	EQUITY AMOUNT LOCAL	The equity value of the company/org.	
22	EQUITY AMOUNT REPORTING	The equity value of the company/org.	

Table 3–65 (Cont.) Collection Agency Detail

Sr. Number	Attribute	Description	Sample Value
23	EXTERNAL ORGANIZATION TYPE CODE	Uniquely identifier of EXTERNAL ORGANIZATION TYPE	
24	FINAL SETTLEMENT END DATE	End date of final settlement.	
25	FINAL SETTLEMENT START DATE	Start date of final settlement	12/31/2005 0:00
26	JUDICIAL DISTRAINT CODE	Case identifier of the judicial distraint	
27	JUDICIAL DISTRAINT DATE	Date of the judicial distraint.	12/31/2005 0:00
28	LIQUIDATION END DATE	The date when the company/org was liquidated. If is null and start_date is not null, the company is undergoing the liquidation.	12/31/2005 0:00
29	LIQUIDATION START DATE	Start date of liquidation.	12/31/2005 0:00
30	MANAGER CODE	ID of the manager for the organization.	
31	MANAGER NAME	Name of manager for the whole company.	
32	OTHER INDIVIDUAL CODE	Uniquely identifier of OTHER INDIVIDUAL	
33	PARTY ORGANIZATION TYPE CODE	Type code of organization party.	
34	PAYMENT ACCOUNT CLOSE DATE	Closing date of the account for payments.	
35	PAYMENT ACCOUNT NUMBER	Account number for payments.	
36	PAYMENT ACCOUNT OPEN DATE	Opening date of the account for payments.	
37	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.	
38	STOCK EXCHANGE NAME	Abbreviation of listed companies as used on the stock exchange.	
39	TAX EXEMPT STATUS	Indicates if the org. is tax exempt.	
40	TERMINATION DATE	Termination date of the company in case of company was founded with termination date.	
41	VALIDATION END DATE	Effective date of the deletion of the company's record from the company register.	
42	VALIDATION START DATE	Date of the registration of the company' record deletion from the company register	12/31/2005 0:00
43	ACTIVE INDICATOR	Indicates if the party is currently active - which means the party has a current relationship with the carrier.	
44	ADDRESS	Address of the party. Redundance to party location history.	
45	BARING REASON CODE	Reasons for barring. For example, 1-Credit Limit, 2-Barring period.	
46	BUSINESS LEGAL STATUS CODE	A unique identifier for a legal classification of a non-residential Customer.	
47	CITY	City of the party. Redundance to party location history.	
48	COUNTRY	Country of the party. Redundance to party location history.	
49	CUSTOMER INDICATOR	Indicates if the party is a customer. Note: the party may have multiple relationships simultaneously - this flag identifies those parties which has a current account with the Telecommunications operator.	
50	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column	12/31/2005 0:00

Table 3–65 (Cont.) Collection Agency Detail

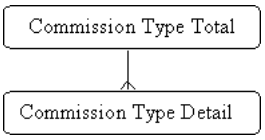
Sr. Number	Attribute	Description	Sample Value
51	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 0:00
52	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider	
53	PARTY DESC	Description of the party. applicable to both individual and organization. Normally it refer to the full name.	
54	PARTY NAME	Name of the party. applicable to both individual and organization. Normally it refer to the full name.	Collector1
55	PARTY TYPE CODE	type code. type code	
56	POST CODE	Postcode of the party. Redundance to party location history.	
57	SOURCE SYSTEM CODE	SOURCE SYSTEM ID, from which source ERP system this recorded was extracted.	
58	STATE	State of the party. Redundance to party location history.	
59	STATUS CODE	Current status of party.	

Commission Type

Description: COMMISSION TYPE

Commission Type Hierarchies

Standard Commission Type Hierarchy:



Commission Type Levels

Table 3–66 shows Commission Type Total: All Commission Type are most aggregate level of the dimension.

Table 3–66 Commission Type Total

Sr. Number	Attribute	Description
1.	ALL COMMISSION TYPE CODE	Code for All Commission Type.

Table 3–67 shows Commission Type Details: Detail level of the dimension. Stores the Commission Type Information.

Table 3–67 Commission Type Detail

Sr. Number	Attribute	Description	Sample Value
1	COMMISSION TYPE CODE	COMMISSION TYPE CODE.	FLAT

Table 3–67 (Cont.) Commission Type Detail

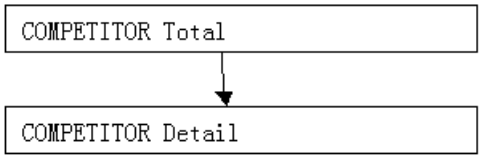
Sr. Number	Attribute	Description	Sample Value
2	COMMISSION TYPE DESC	COMMISSION TYPE DESC.	Flat Rate
3	COMMISSION TYPE NAME	Redemption Type Short Name.	Flat Rate
4	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Competitor

Description: COMPETITOR

Competitor Hierarchies

Standard Competitor Hierarchy:



Competitor Levels

The following table shows COMPETITOR Total: All COMPETITOR is the most aggregate level of the dimension.

Table for COMPETITOR Total

Sr. Number	Attribute	Description
1.	COMPETITOR TOTAL	Code for All COMPETITOR.

Detail table shows COMPETITOR Detail: All COMPETITOR types is the most aggregate level of the dimension.

Sr. Number	Attribute	Description
1	ACTIVE INDICATOR	Indicates if the party is currently active - which means the party has a current relationship with the carrier.
2	BARING REASON CODE	Reasons for barring,eg,1-Credit Limit, 2-Barring period
3	ADDRESS	Address of the party.
4	CITY	City of the party.
5	COUNTRY	Country of the party.
6	CUSTOMER INDICATOR	Indicates if the party is a customer. Note: the party may have multiple relationships simultaneously - this flag identifies those parties which has a current account with the Telco.
7	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column
8	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column
9	PARTY DESC	Description of the party. applicable to both individual and organization. Normally it refer to the full name.
10	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.

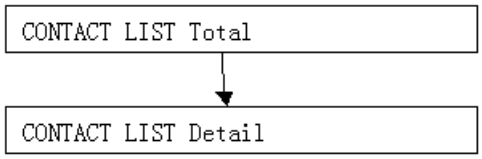
11	POST CODE	Postcode of the party.
12	PARTY NAME	Name of the party. applicable to both individual and organization. Normally it refer to the full name.
13	SOURCE SYSTEM CODE	SOURCE SYSTEM ID, from which source ERP system this recorded was extracted
14	STATUS CODE	current status of party.
15	STATE	State of the party.
16	BANKRUPTCY START DATE	start date of bankruptcy., for either organizational or individual customer.
17	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company/individual is undergoing the bankruptcy process.
18	CHANNEL CODE	
19	PARTY TYPE CODE2	
20	BUSINESS LEGAL STATUS CODE2	
21	LANGUAGE DIALECT CODE	
22	DATE CREATED	The date when this competitor information is created.

Contact List

Description: CONTACT LIST

Contact List Hierarchies

Standard CONTACT LIST Hierarchy:



Contact List Levels

The following table shows CONTACT LIST Total: All CONTACT LIST is the most aggregate level of the dimension.

Table for CONTACT LIST Total

Sr. Number	Attribute	Description
1.	CONTACT LIST TOTAL	Code for All CONTACT LIST.

Detail table shows CONTACT LIST Detail: All CONTACT LIST types is the most aggregate level of the dimension.

Sr. Number	Attribute	Description
1	CONTACT LIST CODE	A unique identifier for a contact list.
2	STATUS CODE	Current STATUS CODE, standard SCD2 column

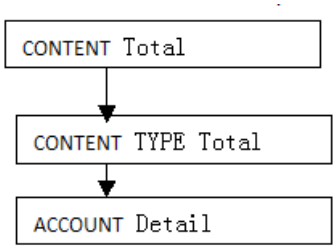
3	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column
4	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column
5	EXISTING CUSTOMER INDICATOR	Indicate if the contact list if based on existing customers.
6	UNKNOWN TARGET INDICATOR	Indicator for whether the Prospects on the Contact List are known to the Communications Service Provider
7	CREATION DATE	The date on which a Contact List was created.
8	CHANGED BY	the employee code who changed contact list
9	CONTACT LIST RECURRENCE TYPE CODE2	
10	SOURCE SYSTEM CODE1	
11	CONTACT LIST CHANGE REASON CODE2	
12	COST CODE	

Content

Description: CONTENT

Content Hierarchies

Standard CONTENT Hierarchy:



Content Levels

The following table shows CONTENT Total: All CONTENT is the most aggregate level of the dimension.

Table for CONTENT Total

Sr. Number	Attribute	Description
1.	ALL CONTENT CODE	Identification for the top level value

Table for CONTENT TYPE

Sr. Number	Attribute
1	CONTENT TYPE NAME
2	CONTENT TYPE CODE
3	LANGUAGE CODE
4	CONTENT TYPE DESC

Detail table **CONTENT** Detail

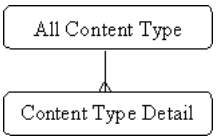
Sr. Number	Attribute	Description
1	VALUE ADDED SERVICE CODE1	Code or Id for VAS
2	POPULARITY RATING	How popular the content is, this can be rank by downloading.
3	COPYRIGHT INDICATOR	Indicate if the provider has the copyright.
4	MEDIA TYPE CODE	The type of media object, for example text, a picture, an audio message or a script.
5	CONTENT TYPE CODE2	
6	CONTENT PROVIDER CODE1	
7	CONTENT CODE	

Content Type

Description: CONTENT TYPE

Content Type Hierarchies

Standard Content Type Hierarchy:



Content Type Levels

Table 3–68 shows All Content Type: All Content Types are most aggregate level of the dimension.

Table 3–68 All Content Type

Sr. Number	Attribute	Description
1.	ALL CONTENT TYPE CODE	Code for All Content Type.

Table 3–69 shows Content Type Details: Detail level of the dimension. Stores the Content Types Information.

Table 3–69 Content Type Detail

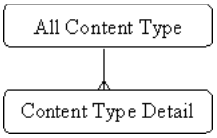
Sr. Number	Attribute	Description	Sample Value
1	CONTENT TYPE CODE	Type of the content: For example: constellation, jokes, and so on.	CONST
2	CONTENT TYPE DESC	Descriptions of content type	Constellation
3	CONTENT TYPE NAME	Name of the content type.	Constellation
4	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Contract Change Initiator Type

Description: AGREEMENT CHANGE INITIATOR TYPE

Contract Change Initiator Type Hierarchies

Standard Contract Change Initiator Type Hierarchy:



Contract Change Initiator Type Levels

Table 3–70 shows Contract Change Initiator Type Total: All Contract Change Initiator type is most aggregate level of the dimension.

Table 3–70 Contract Change InitiatorType Total

Sr. Number	Attribute	Description
1.	ALL CONTENT TYPE CODE	Code for All Content Type.

Table 3–71 shows Contract Change Initiator Type Detail: Detail level of the dimension. Stores the Content Type Information.

Table 3–71 Contract Change Initiator Type Detail

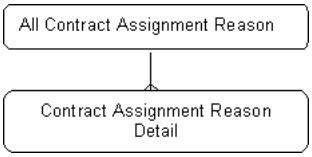
Sr. Number	Attribute	Description	Sample Value
1	CONTRACT CHANGE INITIATOR TYPE CODE	CONTRACT CHANGE INITIATOR TYPE CODE.	CUST
2	CONTRACT CHANGE INITIATOR TYPE DESC	CONTRACT CHANGE INITIATOR TYPE DESC.	Cust
3	CONTRACT CHANGE INITIATOR TYPE NAME	CONTRACT CHANGE INITIATOR TYPE name.	Cust
4	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Contract Assignment Reason

Description: AGREEMENT ASSIGNMENT REASON

Contract Assignment Reason Hierarchies

Standard Contract Assignment Reason Hierarchies:



Contract Assignment Reason Level

Table 3–72 shows Contract Assignment Reason Total: It's not actually hierarchy. It is the top level to aggregate.

Table 3–72 Contract Assignment Reason Total

Sr. Number	Attribute	Description
1	CONTRACT ASSIGNMENT REASON ID	Code of reason

Table 3–73 shows Contract Assignment Reason Detail: Detail level of the Contract Assignment Reason.

Table 3–73 Contract Assignment Reason Detail

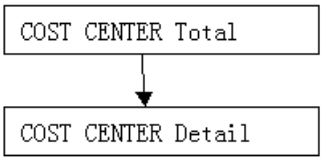
Sr. Number	Attribute	Description	Sample Value
1	CONTRACT ASSIGNMENT REASON CODE	Code of reason	CMPLN
2	CONTRACT ASSIGNMENT REASON DESC	Description of reason	Complain
3	CONTRACT ASSIGNMENT REASON NAME	Name of reason	Complain
4	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Cost Center

Description: COST CENTER

Cost Center Hierarchies

Standard COST CENTER Hierarchy:



Cost Center Levels

The following table shows COST CENTER Total: All COST CENTER is the most aggregate level of the dimension.

Table for COST CENTER Total

Sr. Number	Attribute	Description
1.	COST CENTER TOTAL	Code for All COST CENTER.

Detail table shows COST CENTER Detail: All COST CENTER types is the most aggregate level of the dimension.

Detail table COST CENTER Detail

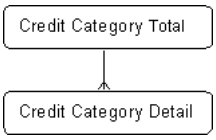
Sr. Number	Attribute	Description
1	APPROVER CODE	Approvers employee code incharge of the cost center
2	ORGANIZATION BUSINESS UNIT CODE1	Business Unit Code
3	COST CENTER DESC	
4	COST CENTER NAME	
5	COST CENTER CODE1	
6	COST CENTER CODE	

Credit Category

Description: CREDIT CATEGORY

Credit Category Hierarchies

Standard Credit Category Hierarchies:



Credit Category Levels

Table 3–74 shows Credit Category Total: Top most level used in the Credit Category dimension for aggregating data for all Credit categories. Attribute at this level is just the id for the level value.

Table 3–74 Credit Category Total

Sr. Number	Attribute	Description
1	CREDIT CATEGORY TOTAL ID	Id of the contract Credit Category Total

Table 3–75 shows Credit Category Detail: The detail or lowest level of the dimension, which actually contains the category values. The attributes for this level are id, descriptions for the level values.

Table 3–75 Credit Category Detail

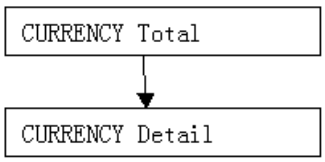
Sr. Number	Attribute	Description	Sample Value
1	CREDIT CATEGORY CODE	Code for Credit Category.	BAD
2	CREDIT CATEGORY DESC	Description for credit category.	Bad Customer
3	CREDIT CATEGORY NAME	Name for Credit Category.	Bad Customer
4	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	12/31/2005 12:00:00 AM
5	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	12/31/2005 12:00:00 AM
6	STATUS CODE	Current STATUS CODE, standard SCD2 column.	

Currency

Description: CURRENCY

Currency Hierarchies

Standard CURRENCY Hierarchy:



Currency Levels

The following table shows CURRENCY Total: All CURRENCY is the most aggregate level of the dimension.

Table for CURRENCY Total

Sr. Number	Attribute	Description
1.	CURRENCY TOTAL	Code for All CURRENCY.

Detail table shows CURRENCY Detail: All CURRENCY types is the most aggregate level of the dimension.

Detail table CURRENCY Detail

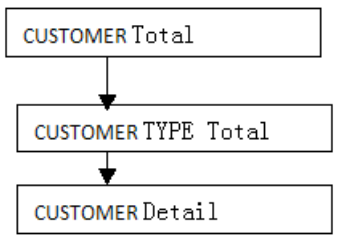
Sr. Number	Attribute	Description
1	ISO NUMERIC COUNTRY CODE	A numeric code representing the country associated with this currency.
2	ISO CURRENCY CODE	A unique identifier representing a row in the Currency table.
3	ORGANIZATION BUSINESS UNIT CODE	Business Unit Code
4	CURRENCY SYMBOL	Symbol of Currency like $ for USD
5	CURRENCY NAME	The abbreviated name of the currency.
6	CURRENCY DESC	The full name of the currency. For example, United States Dollar.
7	COUNTRY NAME	The name of the country associated with this currency.
8	ISO ALPHA CURRENCY CODE	The three-character code for this currency as provided by the International Standards Organization (ISO) in publication 4217. Examples: US Dollars = USD, Hong Kong Dollars = HKD, and so on.
9	CURRENCY UNIT	The unit for which exchange rates are specified.
10	VENDOR CODE	
11	LANGUAGE CODE	
12	CURRENCY CODE	

Customer

Description: CUSTOMER

Customer Hierarchies

Standard CUSTOMER Hierarchy:



Customer Levels

The following table shows CUSTOMER Total: All CUSTOMER is the most aggregate level of the dimension.

Table for CUSTOMER Total

Sr. Number	Attribute	Description
1.	ALL CUSTOMER CODE	Identification for the top level value

Table for CUSTOMER TYPE

Sr. Number	Attribute	Description
1	CUSTOMER TYPE CODE	Customer product type id
2	CUSTOMER TYPE DESC	Description for customer product Type
3	LANGUAGE CODE	
4	CUSTOMER TYPE NAME	

Detail table **CUSTOMER** Detail

Sr. Number	Attribute	Description
1	PAYMENT ACCOUNT NUMBER	Account number for payments. Deprecated: This one is only used for backward compatibility.
2	ADDRESS LOCATION CODE1	Address Location Code
3	PAYMENT ACCOUNT CLOSE DATE	Closing date of the first account with valid payment information. Deprecated: This one is only used for backward compatibility.
4	CUSTOMER CODE	CUSTOMER CODE
5	CUSTOMER TYPE CODE2	Customer product type id
6	BILLING ADDRESS EFFECTIVE DATE	Date on which the billing address referenced in the billing_ address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months"."
7	CONTACT ADDRESS EFFECTIVE DATE	Date on which the contact address referenced in the billing_ address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months"."
8	PRIMARY LINE NUMBER	Default fixed line number.
9	PRIMARY MSISDN NUMBER	Default subscriber number, mostly, it's telephone number to the SIM card.
10	CHURN DATE	
11	CUSTOMER PAYMENT RESPONSIBLE INDICATOR	Indicate if this customer is responsible for payment of an customer organization or household.
12	MAIL ALLOWED INDICATOR	
13	CUSTOMER IMPORTANCE RANK	Integer that gives the Relative Importance of this customer with respect to others.
14	PARTY ROLE CODE	
15	PRIMARY STATUS REASON NAME	Name of the Primary Status Reason

16	NUMBER OF LINES	Number of phone lines belonging to this customer.
17	PAYMENT ACCOUNT OPEN DATE	Opening date of the first account with valid payment information. Deprecated: This one is only used for backward compatibility.
18	REFERRAL CUSTOMER CODE	REFERAL CUSTOMER code is another customer from whom the customer was introduced to service provider.
19	SOCIAL SECURITY NUMBER	SOCIAL SECURITY NUMBER for individual customer.
20	TAX NUMBER	Tax number of the party, for both individual and organizational.
21	BILLING ADDRESS LOCATION CODE	The address where the billing is sent to.
22	DATE OF BIRTH	The birthday of the customer, for individual customers
23	VALIDATION END DATE	The business license validation period end date
24	VALIDATION START DATE	The business license validation period start date
25	CAMPAIGN PARTNER CODE	The campaign partner code if this customer at the same time is also a campaign partner.
26	CELL PHONE NO	the cell phone number, and more contact information can be found in _party contact information_
27	PRIMARY STATUS CODE	The current primary line or account status.
28	PRIMARY STATUS NAME	The current primary line or account status.
29	DUNS NUMBER	The Data Universal Numbering System code, as from D&B.
30	CREATE DATE	
31	LIQUIDATION END DATE	The end date of liquidation process
32	FINAL SETTLEMENT END DATE	The end date of the period when this customer lives in the last known area.
33	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.
34	INITIATIVE NUMBER	The initiative code as defined in INITIATIVE entity. For example, when a person register himself on the operator_s website, he becomes an initiative. Later on, once he place the order, he becomes the customer. In the customer table, imitative number tracks which initiative this customer used to be.
35	TERMINATION DATE	The natural termination date of organizational and individual customer.
36	OTHER INDIVIDUAL CODE	
37	PRIMARY OCCASION NAME	the primary special date of the customer, for example, the marriage anniversary.
38	LIQUIDATION START DATE	The start date of liquidation process
39	FINAL SETTLEMENT START DATE	The start date of the period when this customer lives in the last known area.
40	EMPLOYER TAX NUMBER	The tax number of the employer from tax authority.
41	OFFICE TEL NO	This is the office number, and more contact information can be found in _party contact information_
42	ESTABLISHMENT DATE	time of establish for organizational customer.
43	DOMESTIC INDICATOR	To indicate this is a domestic company (compared with over seas, or those from other country).

44	CAMPAIGN PARTNER INDICATOR	To indicate this is an Campaign Partner.
45	PUBLIC INDICATOR	To indicate this is public listed company (listed and traded in stock exchange market).
46	CUSTOMER REVENUE BAND CODE	Unique identifier for revenue band. For example: 0_1000, 1000_3000
47	PRIMARY STATUS REASON CODE	Unique identifier for the primary Status Reason
48	CUSTOMER SOURCE CODE1	Unique identifier of customer source.
49	THIRD PARTY MARKETING ALLOWED INDICATOR	Whether or not to allow third party to do marketing to the customer.
50	CHAIRMAN CODE	
51	CONTACT CODE	
52	CONTACT NAME	
53	NATIONALITY CODE	
54	MARITAL STATUS CODE	
55	MIDDLE NAME	
56	LIVING AT CURRENT ADDRESS SINCE	
57	LANGUAGE CODE2	
58	LAST NAME	
59	LEGAL TITLE TO HOUSING	
60	JOB CODE	
61	JOB CONTRACT TYPE	
62	JOB POSITION	
63	PARTY ORGANIZATION TYPE CODE	
64	CUSTOMER SCORE CODE1	
65	CUSTOMER SEGMENT CODE1	
66	DEATH CERTIFICATE CODE	
67	DRIVER LICENSE NUMBER	
68	DWELLING SIZE	
69	DWELLING STATUS	
70	DWELLING TENURE	
71	DWELLING TYPE	
72	ECONOMICALLY ACTIVE INDICATOR	
73	EDUCATION CODE	
74	FAMILY NAME IN MAIDEN	
75	FIRST NAME	
76	ANNUAL REVENUE	
77	ANNUAL REVENUE LOCAL	
78	ANNUAL REVENUE REPORTING	

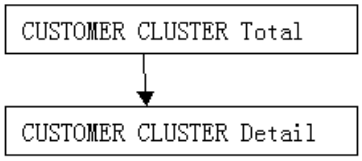
79	ANNUAL SALES
80	ANNUAL SALES LOCAL
81	ARPU BAND CODE2
82	ANNUAL SALES REPORTING
83	COMPANY REGISTRY NUMBER
84	NUMBER OF CHILDREN
85	NUMBER OF DEPENDENTS
86	PREV EMPLOYER TAX NUMBER
87	PREV EMPLOYMENT END DATE
88	PREV EMPLOYMENT START DATE
89	PERSONAL IDENTIFICATION NUMBER
90	PLACE OF BIRTH
91	RELIGIOUS AFFILIATION CODE
92	PROSPECT CODE
93	STOCK EXCHANGE NAME
94	TAX EXEMPT STATUS
95	SALES VOLUME CODE
96	START OF EMPLOYMENT
97	SOC JOB CODE
98	SOURCE OF INCOME
99	EQUITY AMOUNT
100	EQUITY AMOUNT LOCAL
101	EQUITY AMOUNT REPORTING
102	EMPLOYEE COUNT
103	ETHNIC BACKGROUND
104	ETHNICITY
105	END OF JOB CONTRACT
106	EXTERNAL ORGANIZATION TYPE CODE2
107	GENDER CODE
108	GIVEN NAME IN MAIDEN
109	HOUSEHOLD CODE
110	FORM OF EMPLOYMENT
111	NAME
112	NAME OF WORKPLACE
113	NAME PREFIX
114	NAME SUFFIX
115	MANAGER CODE
116	MANAGER NAME

Customer Cluster

Description: CUSTOMER CLUSTER

Customer Cluster Hierarchies

Standard CUSTOMER CLUSTER Hierarchy:



Customer Cluster Levels

The following table shows CUSTOMER CLUSTER Total: All CUSTOMER CLUSTER is the most aggregate level of the dimension.

Table for CUSTOMER CLUSTER Total

Sr. Number	Attribute	Description
1.	CUSTOMER CLUSTER TOTAL	Code for All CUSTOMER CLUSTER.

Detail table shows CUSTOMER CLUSTER Detail: All CUSTOMER CLUSTER types is the most aggregate level of the dimension.

Detail table CUSTOMER CLUSTER Detail

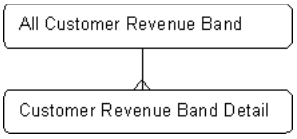
Sr. Number	Attribute
1	LAST UPDATE BY
2	STATUS CODE
3	PRINT CUSTOMER CLUSTER CODE
4	ORGANIZATION TYPE CODE
5	ORGANIZATION CODE
6	W ID
7	LAST UPDATE DATE
8	LOAD DATE
9	CURRENT INDICATOR
10	CUSTOMER CLUSTER CODE
11	CUSTOMER CLUSTER DSCR
12	CUSTOMER CLUSTER KEY
13	CUSTOMER CLUSTER TYPE CODE
14	EFFECT TO DATE
15	EFFECT FROM DATE

Customer Revenue Band

Description: CUSTOMER REVENUE BAND

Customer Revenue Band Hierarchies

Standard Customer Revenue Band Hierarchies:



Customer Revenue Band Levels

Table 3–76 shows Customer Revenue Band Total: This is not really a hierarchical dimension but to provide the summary or aggregate value Customer Revenue.

Table 3–76 Customer Revenue Band Total

Sr. Number	Attribute	Description
1	CUSTOMER REVENUE BAND TOTAL ID	Id of Customer Revenue Band Total

Table 3–77 shows Customer Revenue Band Detail: This level represents the detail level information of Customer Revenue Band.

Table 3–77 Customer Revenue Band Detail

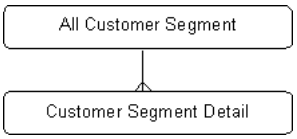
Sr. Number	Attribute	Description	Sample Value
1	CUSTOMER REVENUE BAND CODE	Unique identifier for revenue band. For example: 0_1000, 1000_3000.	BAND100
2	CUSTOMER REVENUE BAND DESC	Description revenue band.	Customer Revenue Band 100
3	CUSTOMER REVENUE BAND END VALUE	The end point of a band.	$100.00
4	CUSTOMER REVENUE BAND NAME	Name of revenue band.	Customer Revenue Band 100
5	CUSTOMER REVENUE BAND START VALUE	The start point of a band.	$0.00
6	CUSTOMER REVENUE TYPE CODE	For recharging, rent fee, one time equipment purchase,-.	RCG
7	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Customer Segment

Description: CUSTOMER SEGMENT

Customer Segment Hierarchies

Standard Customer Segment Hierarchies:



Customer Segment Levels

Table 3–78 shows Customer Segment Total: This is not really a hierarchical dimension but to provide the summary or aggregate value Customer Segment.

Table 3–78 Customer Segment Total

Sr. Number	Attribute	Description
1	CUSTOMER SEGMENT TOTAL ID	Id of Customer Segment Total

Table 3–79 shows Customer Segment Detail: This level represents the detail level information of Customer Segment.

Table 3–79 Customer Segment Detail

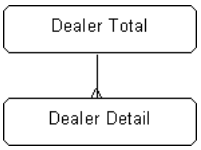
Sr. Number	Attribute	Description	Sample Value
1	CUSTOMER SEGMENT CODE	A code used to uniquely identify a grouping of Parties or Accounts for marketing and management issues.	1
2	CUSTOMER SEGMENT DESC	A textual description for a Segment.	SGMNT1
3	CUSTOMER SEGMENT NAME	The name assigned to a Segment.	SGMNT1
4	CUSTOMER SEGMENTATION MODEL CODE	Unique identifier for Customer Segmentation Model	
5	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	
6	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	
7	IS LEAF INDICATOR	Is leaf is to indicate if the cluster is leaf of the cluster tree.	
8	SEGMENT CRITERIA CODE	SEGMENT CRITERIA CODE.	
9	SEGMENT DISPERSION	The dispersion of the training data in this segment.	
10	STATUS CODE	Current STATUS CODE, standard SCD2 column.	
11	SUPPORTING RECORD COUNT	How many customers are included in segment during training, therefore support the cluster.	
12	TREE LEVEL	TREE LEVEL in the cluster tree.	6

Dealer

Description: DEALER

Dealer Hierarchies

Standard Dealer Hierarchies:



Dealer Levels

Table 3–80 shows Dealer Total: This is not really a hierarchical dimension but to provide the summary or aggregate value of Dealer.

Table 3–80 Dealer Total

Sr. Number	Attribute	Description
1	DEALER TOTAL ID	Id of dealer

Table 3–81 shows Dealer Detail: This level represents the detail level information of Customer Revenue Band.

Table 3–81 Dealer Detail

Sr. Number	Attribute	Description	Sample Value
1	ADDRESS LOCATION CODE	Unique identifier for Address Location	
2	ANNUAL REVENUE	Revenue of the company.	
3	ANNUAL REVENUE LOCAL	Revenue of the company.	
4	ANNUAL REVENUE REPORTING	Revenue of the company.	
5	ANNUAL SALES	Annual sales of Dealer	
6	ANNUAL SALES LOCAL	Annual sales of Dealer local	
7	ANNUAL SALES REPORTING	Annual sales of Dealer reporting	
8	AREA CODE	Code for the Area.	
9	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company is undergoing the bankruptcy process.	
10	BANKRUPTCY START DATE	start date of bankruptcy.	12/31/2005 12:00:00 AM
11	CAMPAIGN PARTNER CODE	CAMPAIGN PARTNER CODE is the code to track campaign partner.	
12	CAMPAIGN PARTNER INDICATOR	To indicator this is a campaign partner. The campaign partner can be an external organization or even another telco operator. The service provider can partner with another service provider if their business are complementary, like 1 wireless operator and 1 local fixed line company. Most of content provider can also partner with the telco for promotion.	
13	CHAIRMAN CODE	Connect to Another Person Party who is responsible for this Organization.	
14	COMPANY REGISTRY NUMBER	Will be same as Party. National_Identifier. Natural Key for Organization.	
15	CONTACT CODE	ID of the contact person for the organization.	
16	CONTACT NAME	Contact Employee for organization.	
17	CONTRACT DATE	The date when the contract was created.	
18	CONTRACT VALID TILL	Validation details	
19	COURT CODE	Code of the law of court.	
20	DEALER CODE	Uniquely identifier of dealer	
21	DEALER NAME	Name of the dealer	
22	DISCOUNT ELIGIBLE INDICATOR	Flag represents eligible for discount or not	
23	DISCOUNT GROUP CODE	DISCOUNT GROUP CODE.	
24	DOMESTIC INDICATOR	For PARTYs that are organizations, this indicates whether the organization is foreign or domestically owned.	
25	DUNS NUMBER	DUNS NUMBER is an identifier for organization.	
26	EMAIL ADDRESS	Electronic Address of dealer	
27	EMPLOYEE COUNT	Total number of employee in the company or organization.	
28	EQUITY AMOUNT	The equity value of the company/org.	

Table 3–81 (Cont.) Dealer Detail

Sr. Number	Attribute	Description	Sample Value
29	EQUITY AMOUNT LOCAL	The equity value of the company/org.	
30	EQUITY AMOUNT REPORTING	The equity value of the company/org.	
31	FINAL SETTLEMENT END DATE	End date of final settlement.	
32	FINAL SETTLEMENT START DATE	Start date of final settlement.	12/31/2005 0:00
33	JUDICIAL DISTRAINT CODE	Case identifier of the judicial distraint	
34	JUDICIAL DISTRAINT DATE	Date of the judicial distraint	
35	LIQUIDATION END DATE	The date when the company/org was liquidated. If is null and start_date is not null, the company is undergoing the liquidation.	
36	LIQUIDATION START DATE	Start date of liquidation.	12/31/2005 0:00
37	MANAGER CODE	ID of the manager for the organization	
38	MANAGER NAME	Name of manager for the whole company	
39	OTHER INDIVIDUAL CODE	Unique identifier for Individual	
40	PAYMENT ACCOUNT CLOSE DATE	Closing date of the account for payments.	
41	PAYMENT ACCOUNT NUMBER	Account number for payments.	
42	PAYMENT ACCOUNT OPEN DATE	Opening date of the account for payments.	
43	SALES CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	
44	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.	
45	STOCK EXCHANGE NAME	Abbreviation of listed companies as used on the stock exchange.	
46	TAX EXEMPT STATUS	Indicates if the org. is tax exempt.	
47	TERMINATION DATE	Termination date of the company in case of company was founded with termination date.	
48	VALIDATION END DATE	Effective date of the deletion of the company's record from the company register.	
49	VALIDATION START DATE	Date of the registration of the company' record deletion from the company register	12/31/2005 0:00
50	ACTIVE INDICATOR	Indicates if the party is currently active - which means the party has a current relationship with the carrier.	
51	ADDRESS	Address of the party. Redundance to party location history.	
52	BARING REASON CODE	Reasons for barring. For example: 1-Credit Limit 2-Barring period	
53	BUSINESS LEGAL STATUS CODE	A unique identifier for a legal classification of a non-residential Customer.	
54	CITY	City of the party. Redundance to party location history.	
55	COUNTRY	Country of the party. Redundance to party location history.	
56	CUSTOMER INDICATOR	Indicates if the party is a customer. Note: the party may have multiple relationships simultaneously - this flag identifies those parties which has a current account with the Telecommunications operator.	

Table 3–81 (Cont.) Dealer Detail

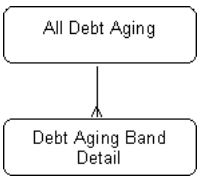
Sr. Number	Attribute	Description	Sample Value
57	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column	
58	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	
59	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	
60	PARTY DESC	Description of the party. applicable to both individual and organization. Normally it refer to the full name.	
61	PARTY NAME	Name of the party. Applicable to both individual and organization. Normally it refers to the full name.	
62	PARTY TYPE CODE	type code.	
63	POST CODE	Postcode of the party. Redundance to party location history.	
64	SOURCE SYSTEM CODE	SOURCE SYSTEM ID, from which source ERP system this recorded was extracted.	
65	STATE	State of the party. Redundance to party location history.	
66	STATUS CODE	Current status of party.	

Debt Aging Band

Description: DEBT AGING BAND

Debt Aging Band Hierarchies

Standard Debt Aging Band Hierarchy:



Debt Aging Band Levels

Table 3–82 shows Debt Aging Band Total: Most aggregate level for the Debt Aging Band dimension to see the aggregated value of all the Debt Aging Band.

Table 3–82 Debt Aging Band Total

Sr. Number	Attribute	Description
1.	DEBT AGING BAND ID	Code for Debt Aging Band

Table 3–83 shows Debt Aging Band Detail: There are customers who have not paid or partially paid one or more bills. This is called as aging for the bill payment. Based on the age of unpaid or partial paid bill those amounts are put into different buckets for each customer.

Table 3–83 Debt Aging Band Detail

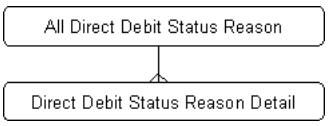
Sr. Number	Attribute	Description	Sample Value
1	DEBT AGING BAND CODE	Code for Aging Slab.	DAB1
2	DEBT AGING BAND DESC	Description for aging Slab.	Debt Aging Band Between 0 And 4
3	DEBT AGING BAND FROM		
4	DEBT AGING BAND NAME	Name for aging Slab.	Band(0-4)
5	DEBT AGING BAND TO	0	
6	LANGUAGE CODE	Unique identifier for Language	4

Direct Debit Status Reason

Description: DIRECT DEBIT STATUS REASON

Direct Debit Status Reason Hierarchies

Standard Direct Debt Status Reason Hierarchy:



Direct Debit Status Reason Levels

Table 3–84 shows Direct Debit Status Reason Total: Most aggregate level for the Direct Debit Status Reason dimension to see the aggregated value of all the Direct Debit Status Reason.

Table 3–84 Direct Debit Status Reason Total

Sr. Number	Attribute	Description
1	DIRECT DEBT STATUS REASON ID	Code for Direct Debit Status Reason

Table 3–85 shows Direct Debit Status Reason Detail: All Address Locations are most aggregate level of the dimension.

Table 3–85 Direct Debit Status Reason Detail

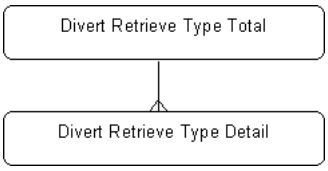
Sr. Number	Attribute	Description	Sample Value
1	DIRECT DEBT STATUS REASON CODE	Unique code for Direct Debt Status Reason	ACTV
2	DIRECT DEBT STATUS REASON DESC	Description of Direct Debt Status Reason	Active
3	DIRECT DEBT STATUS REASON NAME	Name for Direct Debt Status Reason	Active
4	LANGUAGE CODE	Unique identifier for Language	

Divert Retrieve Type

Description: DIVERT RETRIEVE TYPE

Divert Retrieve type Hierarchies

Standard Divert Retrieve Type Hierarchy:



Divert Retrieve Type Levels

Table 3–86 shows Divert Retrieve Type Total: Most aggregate level for the Divert Retrieve Type Total dimension to see the aggregated value of all the Divert Retrieve Type Total.

Table 3–86 Divert Retrieve Type Total

Sr. Number	Attribute	Description
1.	DIVERT RETRIEVE TYPE TOTAL ID	Code for Divert Retrieve Type Total

Table 3–87 shows Divert Retrieve Type Detail: Call divert retrieve type indicates if the call is a diverted call or a retrieved call and then it can further drill down to define call as diverted to/retrieved from fax, ums or vms.

Subscriber's calls are diverted to the voice mail or UMS mail box according to subscriber instructions or settings. For example, calls can be diverted when subscriber is busy on other call, subscriber has switched off this handset or subscriber is not reachable for the moment.

Subscriber can later retrieve all his calls that are stored on the mailbox by accessing his mailbox through specified numbers or using Internet in case of UMS.

All this traffic generated by diverted calls as well as retrieved calls is to be analyzed based on the type of call such as diverted or retrieved, type of access to retrieve a call and so on.

Call Divert retrieve dimension helps in achieving this by organizing calls as diverted - retrieved calls.

Table 3–87 Divert Retrieve Type Detail

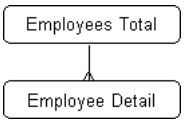
Sr. Number	Attribute	Description	Sample Value
1	DIVERT RETRIEVE SUB TYPE CODE	Call divert/retrieve subtype ID.	
2	DIVERT RETRIEVE SUB TYPE DESC	Call divert/retrieve subtype description.	
3	DIVERT RETRIEVE SUB TYPE NAME	Call divert/retrieve subtype short description.	
4	DIVERT RETRIEVE TYPE CODE	Code for Divert Retrieve Type.	DVRT
5	DIVERT RETRIEVE TYPE DESC	Divert retrieve Type description.	Call Are Diverted To The Mailbox
6	DIVERT RETRIEVE TYPE NAME	Name of Divert retrieve Type.	Diverted Calls
7	LANGUAGE CODE	Unique identifier for Language	

Employee

Description: EMPLOYEE

Employee Hierarchies

Standard Employee Hierarchy:



Employee Levels

Table 3–88 shows Employee Total: Most aggregate level for the Employee Total dimension to see the aggregated value of all the Employee Total

Table 3–88 Employee Total

Sr. Number	Attribute	Description
1.	EMPLOYEE TOTAL ID	Code for employee total identifier.

Table 3–89 shows Employee Details: Employee of Carrier. Sub entity of Party individual.

Table 3–89 Employee Detail

Sr. Number	Attribute	Description	Sample Value
1	BILLING ADDRESS EFFECTIVE DATE	Date on which the billing address referenced in the billing_ address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months.""	
2	BUSINESS DIVISION EXECUTIVE NAME	BUSINESS DIVISION EXECUTIVE LAST NAME is the last name of the business division executive to whom the employee reports to. Like LOB Owner.	
3	BUSINESS PHONE NUMBER	Phone number used for business purpose	
4	CELL PHONE NO	Redundancy to 'party contact information'	
5	CHILDREN COUNT	Number of children	
6	CONTACT ADDRESS EFFECTIVE DATE	Date on which the contact address referenced in the billing_address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months.""	
7	COST CENTER NUMBER	The cost center to which the bank employee expenses are charged.	
8	DATE OF BIRTH	Date of Birth of the individual.	
9	DATE OF DEATH	Date of natural person death.	
10	DEATH CERTIFICATE CODE	The certification document number for customer's death.	
11	DEPENDENTS COUNT	Number of dependents	
12	DRIVER LICENSE NUMBER	Driver License Number in most countries.	
13	DWELLING SIZE	Size of dwelling	
14	DWELLING TENURE	Tenure of dwelling	
15	ECONOMICALLY ACTIVE IND	customer is economically active (is not a minor or pensioner and so on.)	
16	EDUCATION CODE	The customer highest level of education.	
17	EMAIL	Redundancy to 'party contact information'	
18	EMPLOYEE CODE	A code for any person or business that is of interest to the Communications Service Provider.	
19	EMPLOYEE DESIGNATION CODE	Unique warehouse key, representing the designation	
20	EMPLOYEE DISCOUNT GROUP CODE	Unique identifier for Employee Discount Group	

Table 3–89 (Cont.) Employee Detail

Sr. Number	Attribute	Description	Sample Value
21	EMPLOYEE KEY	Key value for each employee	
22	EMPLOYEE NUMBER	Internal number for the employee.	
23	EMPLOYEE TYPE CODE	Unique identifier for Employee Type	PT
24	EMPLOYEE TYPE DESC	Description of the Employee Type	Part Time
25	EMPLOYEE TYPE NAME	Unique identifier for the Employee Type	Part Time
26	EMPLOYER TAX NUMBER	The tax code of Employer.	
27	EMPLOYMENT BEGIN DATE	Start date for the employment.	12/31/2005 12:00:00 AM
28	EMPLOYMENT END DATE	If the employee quit, holds the information of past employment.	
29	EMPLOYMENT EXEMPT IND	An employee exempt from the overtime policies due to the nature of the work, as compared to (Non-Exempt). Education requirements of the position and salary range. These employees are paid an annual salary and are not customarily eligible for overtime pay.	
30	EMPLOYMENT STATUS	EMPLOYEE STATUS is the abbreviated identifier for the employment status. Employee	
31	END OF JOB CONTRACT	End date of the customer's job contract (for contracts concluded for definite terms).	
32	ETHNIC BACKGROUND	Customer Attribute of an employee	
33	ETHNICITY	Classifies the individual for minority reporting purposes.	
34	FAMILY NAME IN MAIDEN	Given name in maiden	
35	FIRST NAME	First name of a party individual	
36	FORM OF EMPLOYMENT	The customer's form of employment (private entrepreneur, employee, civil servant and so on.)	
37	GENDER CODE	For PARTYs that are people, this is their GENDER. For PARTYs that are organizations, this is indicates whether the organization is foreign or domestically owned.	
38	GIVEN NAME IN MAIDEN	Given name in maiden	
39	HOME TELEPHONE NO	Redundance to 'party contact information'	
40	HOUSEHOLD KEY	The code of household which the party belongs to.	
41	INCOME	Income of a party individual	
42	INCOME LCL	Income of a party individual	
43	INCOME RPT	Income of a party individual	
44	JOB CONTRACT TYPE	Type of the customer's job contract	
45	JOB KEY	Code for job of subscriber.	
46	JOB POSITION	job Position.	
47	LANGUAGE CODE	Unique identifier for Language	
48	LAST NAME	Last name of a party individual	
49	LAST PERFORMANCE RATING	This describes the annual rating assigned to the employee.	
50	LAST PERFORMANCE RATING DATE	When the last rating is done.	
51	LEGAL TITLE TO HOUSING	The customer's legal title to home (rents, owns and so on.)	
52	LIVING AT CURRENT ADDRESS SINCE	Date since the customer has lived at the present address.	
53	MANAGER CODE	manager's employee code.	
54	MARITAL STATUS	CSALADI ALLAPOT. Marital status	

Table 3–89 (Cont.) Employee Detail

Sr. Number	Attribute	Description	Sample Value
55	MARTIAL STATUS CODE		
56	MIDDLE NAME	Middle name of a party individual	
57	MOTHER FIRST NAME	Mother's first name	
58	MOTHER LAST NAME	Mother's last name	
59	NAME OF WORKPLACE	Name of workplace	
60	NAME PREFIX	Name prefix For example: Mr, Mrs, Ms, Dr,	
61	NAME SUFFIX	Name suffix. For example: PhD, MD, JD, MA	
62	NATIONALITY CODE	Code for Nationality of subscriber	
63	NUMBER OF EARNERS IN HOUSEHOLD	Number of wage earners in the household.	
64	NUMBER OF PERSONS LIVING IN HOUSEHOLD	Number of persons sharing the customer's household.	
65	OFFICE TELEPHONE NO	Redundancy to 'party contact information'	
66	ORGANIZATION BUSINESS UNIT KEY		
67	PERSONAL ID NUMBER	In China, this is the same as party.national_identifier.	
68	PLACE OF BIRTH	Where the person was born.	
69	PREVIOUS EMPLOYER TAX NUMBER	Tax number of previous employer.	
70	PREVIOUS EMPLOYMENT END DATE	End date of previous job.	
71	PREVIOUS EMPLOYMENT START DATE	Start date of previous job.	12/31/2005 12:00:00 AM
72	SOC JOB KEY		
73	SOCIAL SECURITY NUMBER	Null if a country does not have.	
74	SOURCE OF INCOME	Source of income (can typify, may be several)	
75	START OF EMPLOYMENT	Start of employment	
76	TAX NUMBER	Tax number	
77	ACTIVE IND	Activate Indicator	
78	ADDRESS	Address	
79	BARING REASON CODE	Unique identifier for Baring Reason	
80	BUSINESS LEGAL STATUS CODE	A unique identifier for a legal classification of a non-residential Customer.	
81	CITY	City of the party. Redundance to party location history.	
82	COUNTRY	Country of the party. Redundance to party location history.	
83	CUSTOMER IND	Indicator for Customer	
84	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	
85	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	
86	EMPLOYEE NAME	Name of the employee	
87	PARTY DESC	Description for the Party	
88	PARTY KEY	Key value for Party	
89	PARTY NAME	Name of the Party	
90	PARTY TYPE CODE	Unique identifier for Party Type	
91	POST CODE	Unique identifier for Post	

Table 3–89 (Cont.) Employee Detail

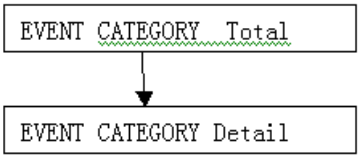
Sr. Number	Attribute	Description	Sample Value
92	SOURCE SYSTEM KEY	Key value for Source System	
93	STATE	State Name	
94	STATUS CODE	Current Status	

Environment Type

Description: ENVIRONMENT TYPE

Environment Type Hierarchies

Standard ENVIRONMENT TYPE Hierarchy:



Environment Type Levels

The following table shows ENVIRONMENT TYPE Total: All ENVIRONMENT TYPE is the most aggregate level of the dimension.

Table for ENVIRONMENT TYPE Total

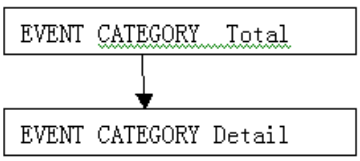
Sr. Number	Attribute
1	ENVIRONMENT TYPE CODE
2	LANGUAGE CODE
3	ENVIRONMENT TYPE NAME
4	ENVIRONMENT TYPE DESCRIPTION

Event Category

Description: EVENT CATEGORY

Event Category Hierarchies

Standard EVENT CATEGORY Hierarchy:



Event Category Levels

The following table shows EVENT CATEGORY Total: All EVENT CATEGORY is the most aggregate level of the dimension.

Table for EVENT CATEGORY Total

Sr. Number	Attribute	Description
1.	EVENT CATEGORY TOTAL	Code for All EVENT CATEGORY.

Detail table shows EVENT CATEGORY Detail: All EVENT CATEGORY types is the most aggregate level of the dimension.

Detail table EVENT CATEGORY Detail

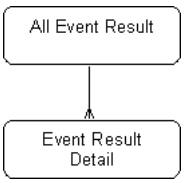
Sr. Number	Attribute	Description
1	EVENT CATEGORY DESC	A textual description for event class.
2	EVENT CATEGORY CODE	An unique identifier for event class. Examples: A-advertising
3	EVENT CATEGORY NAME	The name assigned to event class. Examples: Advertising, Promotion

Event Result

Description: `EVENT RESULT`

Event Result Hierarchies

Standard Event Result Hierarchy:



Event Result Levels

Table 3–90 shows Event Result Total: Most aggregate level for the Event Result dimension to see the aggregated value of all the Event Result.

Table 3–90 Event Result Total

Sr. Number	Attribute	Description
1.	ALL EVENT RESULT ID	Code for Event Result

Table 3–91 shows Event Result Detail: Keep the result of an event. For example,

- S: Successful
- F: failed

Table 3–91 Event Result Detail

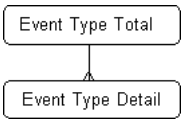
Sr. Number	Attribute	Description	Sample Value
2	EVENT RESULT CODE	The unique identifier of an event result.	FAIL
3	EVENT RESULT DESC	The description of an event result.	Failed
4	EVENT RESULT NAME	The name of an event result.	Failed
5	LANGUAGE CODE	Unique identifier for Language	

Event Type

Description: EVENT TYPE

Event Type Hierarchies

Standard Event Type Hierarchies:



Event Type Levels

Table 3–92 shows Event Type Total: Most aggregate level for the Event Type to see the aggregated sales of all the Event Type of all types.

Table 3–92 Event Type Total

Sr. Number	Attribute	Description
1.	ALL EVENT TYPE TOTAL ID	Code for All Event Type

Table 3–93 shows Event Type Detail: This entity keeps all types of events under each category.

Table 3–93 Event Type Detail

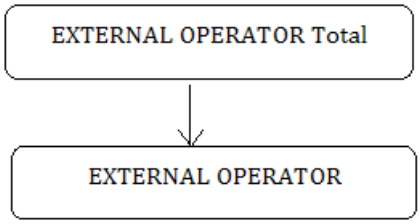
Sr. Number	Attribute	Description	Sample Value
1	EVENT CATEGORY CODE	An unique identifier for event class. Examples: A-advertising.	ACCSMTHD
2	EVENT TYPE CODE	A Code used to uniquely identify the type of Event. Examples: M - Marketing, F - Finance.	ACTV
3	EVENT TYPE DESC	A textual description for an Event Type.	Activate
4	EVENT TYPE NAME	The name of type. Examples: Marketing, Finance.	Activate
5	LANGUAGE CODE	Unique identifier for Language	

External Operator

Description: EXTERNAL OPERATOR

External Operator Hierarchies

Standard EXTERNAL OPERATOR Hierarchy:



External Operator Levels

The following table shows EXTERNAL OPERATOR Total: All EXTERNAL OPERATOR is most aggregate level of the dimension.

Table for EXTERNAL OPERATOR Total

Sr. Number	Attribute	Description
1	EXTERNAL OPERATOR Total	Code for All EXTERNAL OPERATOR Total.

Detail table shows EXTERNAL OPERATOR Detail: It captures information relating to External Operator.

Detail table EXTERNAL OPERATOR Detail

Sr. Number	Attribute	Description
1	STOCK EXCHANGE NAME	Abbreviation of listed companies as used on the stock exchange.
2	PAYMENT ACCOUNT NUMBER	Account number for payments.
3	CAMPAIGN PARTNER CODE	CAMPAIGN PARTNER CODE is the code to track campaign partner.
4	JUDICIAL DISTRAINT CODE	Case identifier of the judicial distraint.
5	PAYMENT ACCOUNT CLOSE DATE	Closing date of the account for payments.
6	COURT CODE	Code of the law of court.
7	CHAIRMAN CODE	Connect to Another Person Party who is responsible for this Organization.
8	CONTACT NAME	Contact Employee for organization.
9	JUDICIAL DISTRAINT DATE	Date of the judicial distraint.
10	VALIDATION START DATE	Date of the registration of the company' record deletion from the company register.
11	DUNS NUMBER	DUNS NUMBER is an identifier for organization
12	VALIDATION END DATE	Effective date of the deletion of the company's record from the company register.
13	FINAL SETTLEMENT END DATE	End date of final settlement.
14	DOMESTIC INDICATOR	For PARTYs that are organizations, this indicates whether the organization is foreign or domestically owned.
15	OPERATOR DESC	Further information with operating country and other details.
16	CONTACT CODE	ID of the contact person for the organization.
17	MANAGER CODE	ID of the manager for the organization.
18	IMSI Code	IMSI code of the operator
19	TAX EXEMPT STATUS	Indicates if the org. is tax exempt.
20	IP ADDRESS	IP address
21	MANAGER NAME	Name of manager for the whole company.
22	PAYMENT ACCOUNT OPEN DATE	Opening date of the account for payments.
23	ANNUAL REVENUE REPORTING	Revenue of the company
24	ANNUAL REVENUE	Revenue of the company
25	ANNUAL REVENUE LOCAL	Revenue of the company

26	BANKRUPTCY START DATE	start date of bankruptcy.
27	FINAL SETTLEMENT START DATE	Start date of final settlement.
28	LIQUIDATION START DATE	Start date of liquidation.
29	TERMINATION DATE	Termination date of the company in case of company was founded with termination date.
30	CAMPAIGN PARTNER INDICATOR	The campaign partner can be an external organization or even another telco operator. The service provider can partner with another service provider if their business are complementary, like 1 wireless operator and 1 local fixed line company. Most of content provider can also partner with the telco for promotion.
31	COUNTRY	The country where the operator serves
32	LIQUIDATION END DATE	The date when the company/org was liquidated. If is null and start_date is not null, the company is undergoing the liquidation.
33	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company is undergoing the bankruptcy process.
34	EQUITY AMOUNT	The equity value of the company/org.
35	EQUITY AMOUNT LOCAL	The equity value of the company/org.
36	EQUITY AMOUNT REPORTING	The equity value of the company/org.
37	OPERATOR NAME	The full name of the operator, like China Mobile for CMCC, ...
38	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.
39	EMPLOYEE COUNT	Total number of employee in the company or organization.
40	COUNTRY CODE	Unique identifier for country,eg. USA, UK, CN, JP
41	EXTERNAL OPERATOR CODE	Unique identifier for operator. For example: Airtel, CMCC, NTT
42	COMPANY REGISTRY NUMBER	Will be same as Party. National_Identifier. Natural Key for Organization.
43	COUNTRY DESC	
44	COUNTRY NAME	
45	EXTERNAL ORGANIZATION TYPE CODE2	
46	PARTY ORGANIZATION TYPE CODE	
47	OTHER INDIVIDUAL CODE1	
48	OPERATOR GROUP CODE1	
49	OPERATOR TYPE CODE2	
50	PLMN CODE	
51	TAP 1 ID	
52	TAP 2 ID	
53	ANNUAL SALES REPORTING	

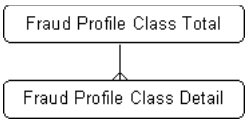
54	ANNUAL SALES LOCAL
55	ANNUAL SALES

Fraud Profile Class

Description: FRAUD PROFILE CLASS

Fraud Profile Class Hierarchies

Standard Fraud Profile Class Hierarchy:



Fraud Profile Class Levels

Table 3–94 shows Fraud Profile Class Total: Most aggregate level for the Fraud Profile Class dimension to see the aggregated value of all the Fraud Profile Class.

Table 3–94 Fraud Profile Class Total

Sr. Number	Attribute	Description
1.	ALL FRAUD PROFILE CLASS ID	Code for All Fraud Profile Class

Table 3–95 shows Fraud Profile Class Detail: The fraud profile class is generalized after certain analysis process over the past network event. New network event therefore can be tagged through the same model to detect if there are suspicious activities.

Table 3–95 Fraud Profile Class Detail

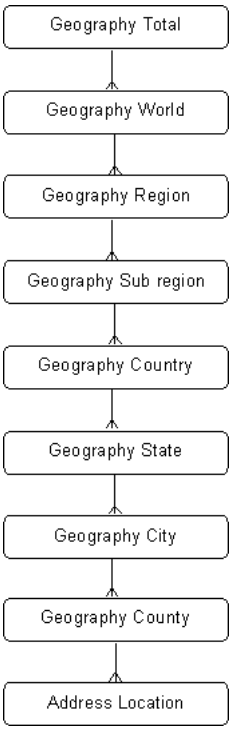
Sr. Number	Attribute	Description
1.	FRAUD PROFILE CLASS CODE	Code of The Fraud Profile Class
2.	FRAUD PROFILE CLASS NAME	Name of The Fraud Profile Class
3.	FRAUD PROFILE CLASS DESCRIPTION	Description of The Fraud Profile Class
	LANGUAGE CODE	

Geography

Description: GEOGRAPHY ENTITY

Geography Hierarchies

Standard Geography Hierarchy:



Geography Levels

Table 3–96 shows Geography World: World level in GEOGRAPHY hierarchy.

Table 3–96 Geography World

Sr. Number	Attribute	Description	Sample Value
1	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	
2	GEOGRAPHY WORLD CODE	Identifier of world.	
3	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
4	GEOGRAPHY WORLD NAME	Name of the geography world.	

Table 3–97 shows Geography Region: Region level in GEOGRAPHY hierarchy.

Table 3–97 Geography Region

Sr. Number	Attribute	Description	Sample Value
1	GEOGRAPHY REGION CODE	uniquely identifier of geography region	
2	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 12:00:00 AM
3	GEOGRAPHY WORLD CODE	Identifier of world.	
4	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
5	GEOGRAPHY REGION NAME	Name of the geography region	

Table 3–98 shows Geography Sub Region: Sub Region level in GEOGRAPHY hierarchy.

Table 3–98 Geography Sub Region

Sr. Number	Attribute	Description	Sample Value
1	GEOGRAPHY REGION CODE	uniquely identifier of geography region	
2	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 12:00:00 AM
3	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
4	GEOGRAPHY SUB REGION NAME	name of the sub region	
5	GEOGRAPHY SUB REGION CODE	Uniquely identifier of geography sub region	

Table 3–99 shows Geography Country: Country level in GEOGRAPHY hierarchy.

Table 3–99 Geography Country

Sr. Number	Attribute	Description	Sample Value
1	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 12:00:00 AM
2	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
3	GEOGRAPHY COUNTRY CODE	Uniquely identifier of the country.	
4	GEOGRAPHY SUB REGION CODE	Uniquely identifier of geography sub region	
5	GEOGRAPHY COUNTRY NAME	Name of the country	

Table 3–100 shows Geography State: State level in GEOGRAPHY hierarchy.

Table 3–100 Geography State

Sr. Number	Attribute	Description	Sample Value
1	GEOGRAPHY STATE NAME	Name of state	
2	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 12:00:00 AM
3	GEOGRAPHY STATE CODE	Uniquely identifier of geography state	
4	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
5	GEOGRAPHY COUNTRY CODE	Uniquely identifier of the country.	

Table 3–101 shows Geography City: CITY level in GEOGRAPHY hierarchy.

Table 3–101 Geography City

Sr. Number	Attribute	Description	Sample Value
1	GEOGRAPHY CITY NAME	Name of the city	
2	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 12:00:00 AM
3	GEOGRAPHY STATE CODE	Uniquely identifier of state	
4	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
5	GEOGRAPHY CITY CODE	Uniquely identifier of city	
6	GEOGRAPHY CITY DESC	CITY DESC.	

Table 3–102 shows Geography County: County level in GEOGRAPHY hierarchy.

Table 3–102 Geography County

Sr. Number	Attribute	Description	Sample Value
1	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	
2	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
3	GEOGRAPHY COUNTY CODE	Uniquely identifier of county	
4	GEOGRAPHY COUNTY NAME	Name of the county	
5	GEOGRAPHY CITY CODE	Uniquely identifier of city	

Table 3–103 shows Address Location: Keep all address. It has levels as country, state, city, address and so on.

Table 3–103 Address Location

Sr. Number	Attribute	Description
1	ADDRESS STYLE	Any specific style of the address. It might include the detail like All Capital words, case, font and so on.
2	BUILDING CODE	Uniquely identifier of building
3	ELEVATION	Elevation of the Geographic Location
4	ELEVATION UOM CODE	Uniquely identifier of ELEVATION UOM
5	FLOOR CODE	Uniquely identifier of floor
6	FLOOR NAME	Name of the floor
7	GEOGRAPHY LOCATION CODE	Applicable unique geography ID.
8	GEOGRAPHY REGION CODE	Uniquely identifier of GEOGRAPHY REGION
9	LATITUDE	LATITUDE description
10	PRIMARY EMAIL ADDRESS	Email address
11	REGION NAME	Name of the Reason
12	SUBREGION DESC	description of sub region
13	TAX AUTHORITY CODE	Unique identified for the tax authority
14	WORLD DESC	Description of world
15	WORLD NAME	Name of the world
16	ADDRESS LATITUDE MEASURE	This is the Latitude value of the specified location
17	POSTAL PLUS CODE	Four digit extension to the United States Postal ZIP code.
18	STREET CODE	Uniquely identifier of state
19	CITY DESC	Description of the city
20	FLAT ROOM CODE	Uniquely identifier of the flat room
21	GEOGRAPHY STATE CODE	State of the geography
22	POST OFFICE BOX	PO box if available.
23	STATE DESC	Description of the state
24	STATE NAME	Name of the state
25	ADDRESS LONGITUDE MEASURE	This is the longitude location of the specified address.
26	BUILDING DESC	Description for Building
27	COUNTY DESC	Description for County
28	GEOGRAPHY COUNTRY CODE	Code for Geography Country
29	POSTCODE CODE	Code for Post Code
30	ADDRESS DESCRIPTION	Address description. Textual description of the address.

Table 3–103 (Cont.) Address Location

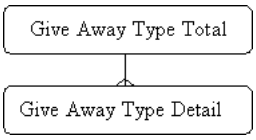
Sr. Number	Attribute	Description
31	ADDRESS TYPE CODE	Unique identifier for the address type.
32	BUILDING NAME	Name for Building
33	COUNTY NAME	Name for County
34	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.
35	FLAT ROOM DESC	Description for Flat Room
36	GEOGRAPHY COUNTY CODE	Code for Geography County
37	GEOGRAPHY ENTITY CODE	unique geography identifier. A unique identifier for the geography entities, could be a system generated unique key for geography entity
38	REGION DESC	Description for Region
39	WORLD CODE	Description for World
40	ADDRESS LINE 2	Address. Line 2 of the detailed postal address
41	ADDRESS LINE 3	Address. Line 3 of the detailed postal address
42	LONGITUDE	The angular distance between a point on any meridian and the prime meridian at Greenwich
43	PRIMARY ADDRESS TELEPHONE	Telephonic address
44	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.
45	ADDRESS LINE 1	Address. Line one of detail postal address
46	ADDRESS LINES PHONETIC	Phonetic or Kana representation of the Kanji address lines (used in Japan).
47	COUNTRY NAME	Name for Country
48	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.
49	EMPLOYEE CODE	Code for Employee
50	FLOOR DESC	Description for Floor
51	SUBREGION NAME	Name for Subregion
52	ADDRESS LOCATION CODE	unique identifier for the address.
53	CITY NAME	Name for City
54	COUNTRY DESC	Description for Country
55	FLAT ROOM NAME	Name for Flat Room
56	GEOGRAPHY CITY CODE	Code for Geography City
57	GEOGRAPHY SUBREGION CODE	Code for Geography Subregion
58	STREET DESC	Description for Street
59	STREET NAME	Name for Street
60	TIME ZONE CODE	Unique Identifier for time zone.

Give Away Type

Description: GIVE AWAY TYPE

Give Away Type Hierarchies

Standard Give Away Hierarchy:



Give Away Type Levels

Table 3–104 shows All Give Away Type: All Give Away are most aggregate level of the dimension.

Table 3–104 All Give Away Type

Sr. Number	Attribute	Description
1.	ALL GIVE AWAY TYPE CODE	Code for All Give Away Type.

Table 3–105 shows Give Away Type Detail: Detail level of the dimension. Stores the Give Away Type Detail Information.

Table 3–105 Give Away Type Detail

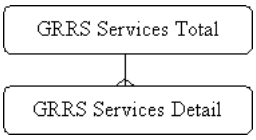
Sr. Number	Attribute	Description
1.	GIVE AWAY TYPE CODE	Code for Give Away type
2.	GIVE AWAY TYPE DESC	Description of the Give Away Type
3.	GIVE AWAY TYPE NAME	Name of the Give Away type
4.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.

GPRS Services

Description: `GPRS SERVICE`

GRPS Service Hierarchies

Standard GRPS Service Hierarchy:



GPRS Service Levels

Table 3–106 shows GRRS Services Total: All GPRS Service are most aggregate level of the dimension.

Table 3–106 GRRS Services Total

Sr. Number	Attribute	Description
1.	ALL GPRS SERVICE CODE	Code for All GPRS Service.

Table 3–107 shows GRRS Services: Detail level of the dimension. Stores the GPRS Service Detail Information.

Table 3–107 GRRS Services Detail

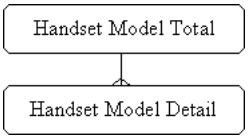
Sr. Number	Attribute	Description
1.	EFFECTIVE FROM DATE	Active from. Standard SCD field,
2.	EFFECTIVE TO DATE	Date the party left the program. Will be null if the party is currently a member of the program.
3.	EQUIPMENT FUNCTIONALITY CODE	The code of function
4.	GPRS SERVICE CODE	GPRS service code
5.	GPRS SERVICE DESC	GPRS service description
6.	GPRS SERVICE NAME	GPRS service name
7.	IN PLATFORM CODE	IN PLATFORM CODE.
8.	NETWORK CODE	Identifier of the network.
9.	PRODUCT CODE	The unique identifier of product.
10.	PRODUCT DESC	Full Description.
11.	PRODUCT GROUP CODE	The unique identifier of product group
12.	PRODUCT NAME	Product name.
13.	PRODUCT PACKAGE CHARGE TYPE CODE	The unique identifier of product package charge type.
14.	PRODUCT PACKAGE TYPE CODE	Code for product package type
15.	PRODUCT TYPE CODE	Retrofitted from column PRODUCT_KEY of table FACT_ MARKET_SHARE
16.	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.
	PRODUCT RATING PLAN TYPE CODE	

Handset Model

Description: HANDSET MODEL

Handset Model Hierarchies

Standard Handset Model Hierarchy:



Handset Model Levels

Table 3–108 shows Handset Model Total: All Handset Model are most aggregate level of the dimension.

Table 3–108 Handset Model Total

Sr. Number	Attribute	Description
1.	HANDSET MODEL TOTAL CODE	Code for All Handset Model.

Table 3–109 shows Handset Model Detail: Detail level of the dimension. Stores the Handset Model Detail Information.

Table 3–109 Handset Model Detail

Sr. Number	Attribute	Description
1.	AVAILABLE FOR SALE DATE	The date when this ITEM becomes available for sale. For example, certain books have specific publication dates, music entertainment release dates.
2.	BRAND CODE	Unique Identifier for a item brand
3.	BRAND NAME	One Item can have one brand name. One brand name can extend to multiple items. A unique name to denote a class of Items as a product of a single supplier or manufacturer. The brand can include private label Items.
4.	COMMISSION IND	A flag to indicate whether this ITEM has a commission related to it or not
5.	CUSTOMER USAGE INDICATOR	Indicates whether equipment should be used by customer, otherwise for service provider.
6.	DISCOUNT IND	A flag to indicate whether this ITEM can be discounted.
7.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date
8.	EFFECTIVE TO DATE	Date the party left the program. Will be null if the party is currently a member of the program.
9.	EQUIPMENT CODE	EQUIPMENT CODE.
10.	EQUIPMENT DESC	EQUIPMENT DESC.
11.	EQUIPMENT FUNCTIONALITY CODE	The code of function
12.	EQUIPMENT NAME	EQUIPMENT NAME.
13.	HANDSET BRAND CODE	Code for Handset Brand.
14.	HANDSET BRAND DESC	Description of the Handset Brand.
15.	HANDSET BRAND NAME	Name of the Handset Brand.
16.	HANDSET MODEL CODE	The date when this ITEM becomes available for sale. For example, certain books have specific publication dates, music entertainment release dates.
17.	HANDSET MODEL DESC	Description of Handset Model.
18.	HANDSET MODEL NAME	Name of the Handset Model.
19.	IN PLATFORM CODE	IN PLATFORM CODE.
20.	INVENTORY IND	Indicates whether an item is an inventory item or a non-inventory item (such as gift certificates, labor)
21.	ITEM CLUSTER CODE	Surrogate key used to identify an Item cluster. This column is used for Behavior Profiling.
22.	ITEM CODE	Unique identifier for item type.
23.	ITEM TYPE CODE	Unique identifier for item type.
24.	MERCHANDISE IND	Indicates whether the item's sales are financially tracked in the stock ledger.
25.	NETWORK CODE	Identifier of the network.
26.	PERISHABLE IND	Indicates whether the item is perishable.
27.	PRICE AUDIT IND	An indicator to denote whether the ITEM was validated (scanned) during verification of the ITEM table.
28.	PRIMARY ALTERNATE ITEM NAME	Default Alternate Item Name
29.	PRIMARY ALTERNATE ITEM NUMBER	Default Alternate Item Number
30	PRODUCT CODE	Description of Handset Model.
31.	PRODUCT GROUP CODE	Code for Product Group.
32.	PRODUCT NAME	Product name.
33.	PRODUCT PACKAGE CHARGE TYPE CODE	Code. For example: CMBND

Table 3–109 (Cont.) Handset Model Detail

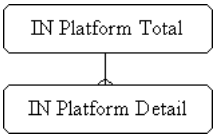
Sr. Number	Attribute	Description
34.	PRODUCT PACKAGE TYPE CODE	Identifier for the offer. For example: Individual.
35.	PRODUCT RATING PLAN TYPE CODE	Identifier for the offer.
36.	PRODUCT TYPE CODE	Code. For example CALL
37.	RECIPE IND	The recipe identifier that is associated to the selling item.
38.	SECURITY REQUIRED TYPE CODE	A code that defines the security environment and procedures required for receiving, displaying and selling the item. This is for high-priced merchandise like jewelry, certain prescription drugs, ordinance, fireworks, and so on.
39.	SELLABLE IND	Indicates whether the item can be sold. If 'N', then the only analysis available is on customer order lines of type partial within Customer Order Management
40.	SHRINK IND	An indicator to denote if the ITEM could loose weight from the time of order until the time of receipt
41.	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.
42.	STOP SALE IND	Indicates that sale of the item should be stopped immediately at the location.
43.	STORE REORDERABLE IND	Indicates whether the store may re-order the item.
44.	SUBSTITUTE IDENTIFIED IND	An ITEM for which there is a substitute available for sale within the RETAIL STORE
45.	SWELL IND	An indicator to indicate if the ITEM may gain weight or swell from time of order to time of receipt.
46.	TAX EXEMPT CODE	A code to denote the tax exemption status from sales and use tax. The codes refer to the UCC code
47.	UNIT PRICE FACTOR	The number of units of measure per selling unit. Used as the divisor when calculating the ITEMs unit retail price. For example: $1.67 per pound or $2.59 for 32 fl. oz.
48.	UOM CODE	The code used to specify the units in which a value is being expressed, or manner in which a measurement has been taken. This code relates to the UCC data element 355.
49.	VENDOR CODE	The vendor who provide this product. Here product should be an product item. For example: handset, STB
50.	VENDOR SITE CODE	Unique identifier or the Vendor Site
	PRODUCT DESC	
	MODEL TYPE CODE	

IN Platform

Description: IN PLATFORM

IN Platform Hierarchies

Standard IN Platform Hierarchy:



IN Platform Level

Table 3–110 shows IN Platform Total: All IN Platform are most aggregate level of the dimension.

Table 3–110 IN Platform Total

Sr. Number	Attribute	Description
1.	ALL IN PLATFORM CODE	Code for All IN Platform.

Table 3–111 shows IN Platform Detail: Detail level of the dimension. Stores the IN Platform Detail Information.

Table 3–111 IN Platform Detail

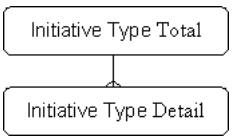
Sr. Number	Attribute	Description	Sample Value
1.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
2.	EFFECTIVE TO DATE	Date the party left the program. Will be null if the party is currently a member of the program.	12/31/2005 12:00:00 AM
3.	IN PLATFORM CODE	Id for IN Platform.	5101
4.	IN PLATFORM DESC	IN Platform description.	
5.	IN PLATFORM NAME	IN Platform name.	
6.	NETWORK CODE	The network which is used by this platform	1
8.	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.	

Initiative Type

Description: `INITIATIVE TYPE`

Initiative Type Hierarchies

Standard Initiative Type Hierarchy:



Initiative Type Levels

Table 3–112 shows Initiative Type Total: All Initiative Type are most aggregate level of the dimension.

Table 3–112 Initiative Type Total

Sr. Number	Attribute	Description
1.	ALL INITIATIVE TYPE CODE	Code for All Initiative Type.

Table 3–113 shows Initiative Type Detail: Detail level of the dimension. Stores the Initiative Type Detail Information.

Table 3–113 Initiative Type Detail

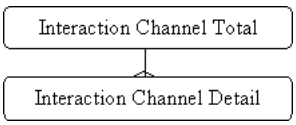
Sr. Number	Attribute	Description
1.	INITIATIVE TYPE CODE	The initiative type identifier.
2.	INITIATIVE TYPE NAME	The initiative type name.
3.	INITIATIVE TYPE DESC	The initiative type description
4.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.

Interaction Channel

Description: INTERACTION CHANNEL

Interaction Channel Hierarchies

Standard Interaction Channel Hierarchy:



Interaction Channel Levels

Table 3–114 shows Interaction Channel Total: All Initiative Type are most aggregate level of the dimension.

Table 3–114 Interaction Channel Total

Sr. Number	Attribute	Description
1.	ALL INTERACTION CHANNEL CODE	Code for All Interaction Channel.

Table 3–115 shows Interaction Channel Detail: Detail level of the dimension. It Stores the Interaction Channel Detail Information.

Table 3–115 Interaction Channel Detail

Sr. Number	Attribute	Description	Sample Value
1.	CAPACITY QUANTITY	The number of transaction that a Channel can handle, at a point of time.	
2.	CHANNEL CODE	A unique identifier for channel	
3.	CHANNEL DESC	Description for Channel	
4.	CHANNEL NAME	The name assigned to a channel.	SHOP
5.	CHANNEL TYPE CODE	A code used to uniquely identify a major grouping of Channels. Examples: M - MailT - Telephone TV - Television.	SLCHNL
6.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
7.	EFFECTIVE TO DATE	Date the party left the program. Will be null if the party is currently a member of the program.	12/31/2005 12:00:00 AM
8.	INTERACTION CHANNEL CODE	A code for Interaction channel	

Table 3–115 (Cont.) Interaction Channel Detail

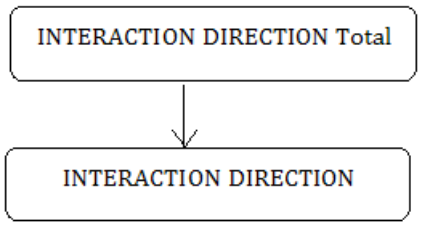
Sr. Number	Attribute	Description	Sample Value
9.	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	
10.	PARTY TYPE CODE	PARTY TYPE CODE.	ORG
11.	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on. An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.	

Interaction Direction

Description: INTERACTION DIRECTION

Interaction Direction Hierarchies

Standard INTERACTION DIRECTION Hierarchy:



Interaction Direction Levels

The following table shows INTERACTION DIRECTION Total: All INTERACTION DIRECTION is most aggregate level of the dimension.

Table for INTERACTION DIRECTION Total

Sr. Number	Attribute	Description
1	INTERACTION DIRECTION Total	Code for All INTERACTION DIRECTION Total.

Detail table shows INTERACTION DIRECTION Detail: It captures information relating to interaction Direction.

Detail table INTERACTION DIRECTION Detail

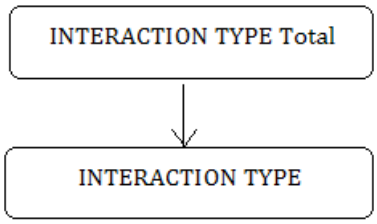
Sr. Number	Attribute	Description
1	INTERACTION DIRECTION NAME	Direction name.
2	INTERACTION DIRECTION CODE	Identifier of the interaction direction.
3	LANGUAGE CODE	
4	INTERACTION DIRECTION DESC	

Interaction Type

Description: INTERACTION TYPE

Interaction Type Hierarchies

Standard INTERACTION TYPE Hierarchy:



Interaction Type Levels

The following table shows INTERACTION TYPE Total: All INTERACTION TYPE is most aggregate level of the dimension.

Table for INTERACTION TYPE Total

Sr. Number	Attribute	Description
1	INTERACTION TYPE Total	Code for All INTERACTION TYPE Total.

Detail table shows INTERACTION TYPE Detail: It captures information relating to interaction Type.

Detail table INTERACTION TYPE Detail

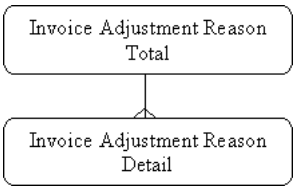
Sr. Number	Attribute
1	INTERACTION TYPE CODE
2	INTERACTION TYPE DESC
3	INTERACTION TYPE NAME
4	LANGUAGE CODE

Invoice Adjustment Reason

Description: INVOICE ADJUSTMENT REASON

Invoice Adjustment Reason Hierarchies

Standard Invoice Adjustment Reason Hierarchy:



Invoice Adjustment Reason Levels

Table 3–116 shows Invoice Adjustment Reason Total: All Invoice Adjustment Reason are most aggregate level of the dimension.

Table 3–116 Invoice Adjustment Reason Total

Sr. Number	Attribute	Description
1.	ALL INVOICE ADJUSTMENT REASON CODE	Code for All Invoice Adjustment Reason.

Table 3–117 shows Invoice Adjustment Reason Detail: Detail level of the dimension. It Stores the Invoice Adjustment Reason Detail Information.

Table 3–117 Invoice Adjustment Reason Detail

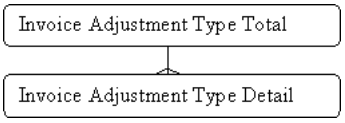
Sr. Number	Attribute	Description	Sample Value
2.	INVOICE ADJUSTMENT RSN CODE	A unique identifier for reason	CMPLN
3.	INVOICE ADJUSTMENT RSN DESC	Description for reason	Customer complain
4.	INVOICE ADJUSTMENT RSN NAME	The name for invoice adjustment.	Customer complain
5.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Invoice Adjustment Type

Description: `INVOICE ADJUSTMENT TYPE`

Invoice Adjustment Type Hierarchies

Standard Invoice Adjustment Type Hierarchy:



Invoice Adjustment Type Levels

Table 3–118 shows Invoice Adjustment Type Total: All Invoice Adjustment Type are most aggregate level of the dimension.

Table 3–118 Invoice Adjustment Type Total

Sr. Number	Attribute	Description
1.	ALL INVOICE ADJUSTMENT TYPE CODE	Code for All Invoice Adjustment Type.

Table 3–119 shows Invoice Adjustment Type Detail: Detail level of the dimension. It Stores the Invoice Adjustment Type Detail Information.

Table 3–119 Invoice Adjustment Type Detail

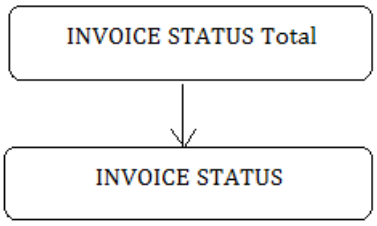
Sr. Number	Attribute	Description	Sample Value
1.	INVOICE ADJUSTMENT TYPE CODE	A code used to uniquely identify a adjustment type.	CMPGN
2.	INVOICE ADJUSTMENT TYPE DESC	A textual description of the adjustment Type.	Invoice Adjustment because of Specific Campaign in certain time period
3.	INVOICE ADJUSTMENT TYPE NAME	The name assigned to a adjustment Type.	Campaign
4.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	

Invoice Status

Description: INVOICE STATUS

Invoice Status Hierarchies

Standard INVOICE STATUS Hierarchy:



Invoice Status Levels

The following table shows INVOICE STATUS Total: All INVOICE STATUS is most aggregate level of the dimension.

Table for INVOICE STATUS Total

Sr. Number	Attribute	Description
1	INVOICE STATUS Total	Code for All INVOICE STATUS Total.

Detail table shows INVOICE STATUS Detail: It captures information relating to Invoice Status.

Detail table INVOICE STATUS Detail

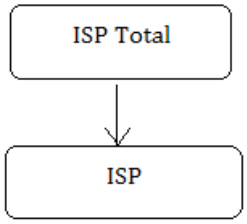
Sr. Number	Attribute
1	INVOICE STATUS CODE
2	INVOICE STATUS DESCRIPTION
3	INVOICE STATUS NAME
4	LANGUAGE CODE

ISP

Description: ISP

ISP Hierarchies

Standard ISP Hierarchy:



ISP Levels

The following table shows ISP Total: All ISP is most aggregate level of the dimension.

Table for ISP Total

Sr. Number	Attribute	Description
1	ISP Total	Code for All ISP Total.

Detail table shows ISP Detail: It captures information relating to ISP.

Detail table ISP Detail

Sr. Number	Attribute	Description
1	STOCK EXCHANGE NAME	Abbreviation of listed companies as used on the stock exchange.
2	PAYMENT ACCOUNT NUMBER	Account number for payments.
3	JUDICIAL DISTRAINT CODE	Case identifier of the judicial distraint.
4	PAYMENT ACCOUNT CLOSE DATE	Closing date of the account for payments.
5	COURT CODE	Code of the law of court.
6	CHAIRMAN CODE	Connect to Another Person Party who is responsible for this Organization.
7	CONTACT NAME	Contact Employee for organization.
8	JUDICIAL DISTRAINT DATE	Date of the judicial distraint.
9	VALIDATION START DATE	Date of the registration of the company' record deletion from the company register.
10	DUNS NUMBER	DUNS NUMBER is an identifier for organization
11	VALIDATION END DATE	Effective date of the deletion of the company's record from the company register.
12	FINAL SETTLEMENT END DATE	End date of final settlement.
13	DOMESTIC INDICATOR	For PARTYs that are organizations, this indicates whether the organization is foreign or domestically owned.
14	CONTACT CODE	ID of the contact person for the organization.
15	MANAGER CODE	ID of the manager for the organization.
16	TAX EXEMPT STATUS	Indicates if the org. is tax exempt.
17	MANAGER NAME	Name of manager for the whole company.

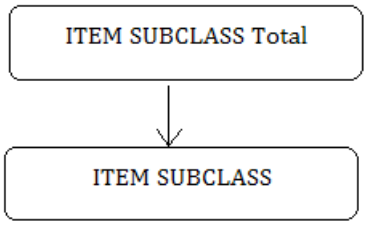
18	PAYMENT ACCOUNT OPEN DATE	Opening date of the account for payments.
19	ANNUAL REVENUE	Revenue of the company
20	ANNUAL REVENUE LOCAL	Revenue of the company in local currency.
21	ANNUAL REVENUE REPORTING	Revenue of the company in reporting currency.
22	BANKRUPTCY START DATE	start date of bankruptcy.
23	FINAL SETTLEMENT START DATE	Start date of final settlement.
24	LIQUIDATION START DATE	Start date of liquidation.
25	TERMINATION DATE	Termination date of the company in case of company was founded with termination date.
26	LIQUIDATION END DATE	The date when the company/org was liquidated. If is null and start_date is not null, the company is undergoing the liquidation.
27	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company is undergoing the bankruptcy process.
28	EQUITY AMOUNT	The equity value of the company/org.
29	EQUITY AMOUNT LOCAL	The equity value of the company/org.
30	EQUITY AMOUNT REPORTING	The equity value of the company/org.
31	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.
32	ISP BUSINESS LICENSE CODE	The isp business license code issued by regulation authorities.
33	EMPLOYEE COUNT	Total number of employee in the company or organization.
34	COMPANY REGISTRY NUMBER	Will be same as Party.National_Identifier. Natural Key for Organization.
35	ANNUAL SALES LOCAL	
36	ANNUAL SALES REPORTING	
37	EXTERNAL ORGANIZATION TYPE CODE2	
38	ISP CODE	
39	ISP TYPE CODE2	
40	ANNUAL SALES	
41	OTHER INDIVIDUAL CODE1	
42	PARTY ORGANIZATION TYPE CODE	

Item Subclass

Description: `ITEM SUBCLASS`

Item Subclass Hierarchies

Standard ITEM SUBCLASS Hierarchy:



Item Subclass Levels

The following table shows ITEM SUBCLASS Total: All ITEM SUBCLASS is most aggregate level of the dimension.

Table for ITEM SUBCLASS Total

Sr. Number	Attribute	Description
1	ITEM SUBCLASS Total	Code for All ITEM SUBCLASS Total.

Detail table shows ITEM SUBCLASS Detail: It captures information relating to Item Subclass.

Detail table ITEM SUBCLASS Detail

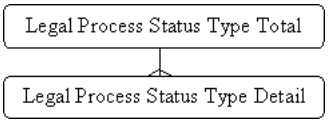
Sr. Number	Attribute
1	SUBCLASS BUYER NAME
2	SUBCLASS BUYER CODE
3	EFFECTIVE TO DATE
4	STATUS CODE
5	SUBCLASS NAME
6	ITEM CLASS CODE
7	SUBCLASS MERCHANDISER CODE
8	SUBCLASS CODE
9	PRODUCT ENTITY CODE
10	EFFECTIVE FROM DATE
11	SUBCLASS MERCHANDISER NAME

Legal Process Status Type

Description: `LEGAL PROCESS STATUS TYPE`

Legal Process Status Type Hierarchies

Standard Legal Process Status Type Hierarchy:



Legal Process Status type Levels

Table 3–120 shows Legal Process Status Type Total: All Legal Process Status Type are most aggregate level of the dimension.

Table 3–120 Legal Process Status Type Total

Sr. Number	Attribute	Description
1.	ALL LEGAL PROCESS STATUS TYPE CODE	Code for All Legal Process Status Type.

Table 3–121 shows Legal Process Status Type Detail: Detail level of the dimension. It Stores the Legal Process Status Type Detail Information.

Table 3–121 Legal Process Status Type Detail

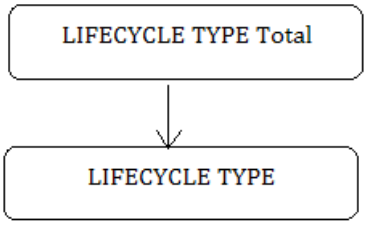
Sr. Number	Attribute	Description
1.	LEGAL PROCESS STATUS TYPE CODE	Legal Process Started Indicator.
2.	LEGAL PROCESS STATUS TYPE DESC	Description for Legal Process Status Type.
3.	LEGAL PROCESS STATUS TYPE NAME	Name for Legal Process Status Type.
4.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.

Lifecycle Type

Description: `LIFECYCLE TYPE`

Lifecycle Type Hierarchies

Standard LIFECYCLE TYPE Hierarchy:



Lifecycle Type Levels

The following table shows LIFECYCLE TYPE Total: All LIFECYCLE TYPE is most aggregate level of the dimension.

Table for LIFECYCLE TYPE Total

Sr. Number	Attribute	Description
1	LIFECYCLE TYPE Total	Code for All LIFECYCLE TYPE Total.

Detail table shows LIFECYCLE TYPE Detail: It captures information relating to Lifecycle Type.

Detail table LIFECYCLE TYPE Detail

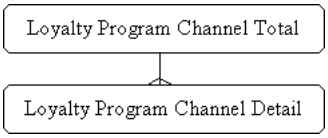
Sr. Number	Attribute
1	LANGUAGE CODE
2	LIFECYCLE TYPE CODE
3	LIFECYCLE TYPE NAME
4	LIFECYCLE TYPE DESCRIPTION

Loyalty Program Channel

Description: LOYALTY PROGRAM CHANNEL

Loyalty Program Channel Hierarchies

Standard Loyalty Program Channel Hierarchy:



Loyalty Program Channel Levels

Table 3–122 shows Loyalty Program Channel Total: All Loyalty Program Channel are most aggregate level of the dimension.

Table 3–122 Loyalty Program Channel Total

Sr. Number	Attribute	Description
1.	ALL LOYALTY PROGRAM CHANNEL CODE	Code for All Loyalty Program Channel.

Table 3–123 shows Loyalty Program Channel Detail: Detail level of the dimension. It Stores the Loyalty Program Channel Detail Information.

Table 3–123 Loyalty Program Channel Detail

Sr. Number	Attribute	Description	Sample Value
1.	CAPACITY QUANTITY	The number of transaction that a Channel can handle, at a point of time.	
2.	CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	-1,1
3.	CHANNEL DESC	Description for that channel can be handle.	
4.	CHANNEL NAME	The name assigned to a channel.	
5.	CHANNEL TYPE CODE	Unique identifier of the channel type	LYLTCHNL
6.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
7.	EFFECTIVE TO DATE	Date the party left the program. Will be null if the party is currently a member of the program.	12/31/2005 12:00:00 AM
8.	LOYALTY PROGRAM CHANNEL CODE	Code for Loyalty Program Channel	-1,1

Table 3–123 (Cont.) Loyalty Program Channel Detail

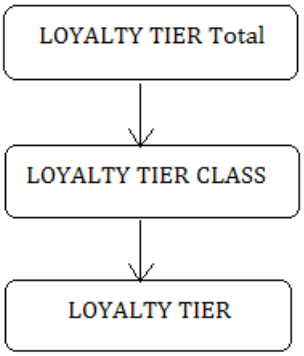
Sr. Number	Attribute	Description	Sample Value
9.	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	
10.	PARTY TYPE CODE	PARTY TYPE CODE.	CUSTOMER
11.	STATUS CODE	An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on. An indicator of the address current status. For instance, this address may be valid, invalid, temporary, and so on.	

Loyalty Tier

Description: LOYALTY TIER

Loyalty Tier Hierarchies

Standard LOYALTY TIER Hierarchy:



Loyalty Tier Levels

The following table shows LOYALTY TIER Total: All LOYALTY TIER is most aggregate level of the dimension.

Table for LOYALTY TIER Total:

Sr. Number	Attribute	Description
1	LOYALTY TIER Total	Code for All LOYALTY TIER Total.

Detail table shows LOYALTY TIER CLASS Detail: It captures information relating to Loyalty Tier Class.

Detail table LOYALTY TIER CLASS Detail

Sr. Number	Attribute
1	CURRENT INDICATOR
2	PROGRAM CODE
3	LAST UPDATE BY
4	START QUALIFIG PERIOD CODE

5	EFFECT FROM DATE
6	LOYALTY TIER CLASS CODE
7	PROGRAM CODE 2
8	STATUS CODE
9	LOYALTY TIER CLASS NAME
10	LOAD DATE
11	LAST UPDATE DATE
12	EFFECT TO DATE

Detail table shows LOYALTY TIER Detail: It captures information relating to loyalty Tier.

Detail table LOYALTY TIER Detail

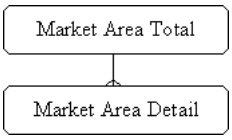
Sr. Number	Attribute
1	GRACE PERIOD
2	MINIMUM TIER LENGTH
3	LOWEST DEMOTN TIER
4	EXP POINTS INDICATOR
5	EFFECT TO DATE
6	EFFECT FROM DATE
7	DEMOTN TIER INDICATOR
8	CURRENT INDICATOR
9	STATUS CODE
10	TIRE QUALIFICATION START POINTS
11	TIRE CARD TYPE CODE1
12	TIRE CARD TYPE CODE
13	TIER LUNGE
14	PROGRAM CODE
15	POINTS EXPRY BASIC CODE
16	POINTS EXPIRY BASIS CODE 1
17	PRIMARY TIER INDICATOR
18	LOAD DATE
19	LAST UPDATE DATE
20	LOYALTY TIER CLASS CODE
21	LOYALTY TIER CLASS CODE 1
22	LOYALTY TIER CODE
23	LOYALTY TIER NAME
24	LAST UPDATE BY

Market Area

Description: MARKET AREA

Market Area Hierarchies

Standard Market Area Hierarchy:



Market Area Levels

Table 3–124 shows Market Area Total: All Market Area are most aggregate level of dimension.

Table 3–124 Market Area Total

Sr. Number	Attribute	Description
1.	ALL MARKET AREA CODE	Code for All Market Area's

Table 3–125 shows Market Area Detail: Detail level of the dimension. It Stores the Market Area Information.

Table 3–125 Market Area Details

Sr. Number	Attribute	Description
1	MARKET AREA CODE	Market Area identifier
2	SERVICE COVERAGE AREA CODE	COVERAGE AREA CODE. Unique identifier for the coverage area
3	ORGANIZATION BUSINESS UNIT CODE	Market Area identifier
4	SECONDARY ZIP CODE	Applicable only in case the zip code spans across multiple zip codes
5	MARKET AREA LEVEL CODE	Identifier for the community or logical segment under the market area.
6	MARKET AREA UOM CODE	This is the unit of measure used to measure the size of the trading area, that is, miles, minutes, and so on.
7	PRIMARY ZIP CODE	Primary Zip code for the market area.
8	MARKET AREA NAME	Name of the market area.
9	MARKET AREA DESC	Description of the market area.
10	AREA TYPE	Type of Trading Area- Urban- Suburban
11	COUNTY	County / District
12.	CITY	City in which the market area belongs
13.	STATE	State or province
14.	COUNTRY	Country of the market area
15.	PULL FACTOR	Ratios that estimate the proportion of local sales that occurs in a town
16.	TRADE AREA CAPTURE	An estimate of the number of people who shop in the local area during a certain period
17.	TOTAL POPULATION	Estimated total population of the market area
18.	STATE POPULATION	Estimated state population of the market area.
19.	STATE SALES	Estimated total retail sales in the state
20.	STATUS CODE	Unique Identifier of the status.

Table 3–125 (Cont.) Market Area Details

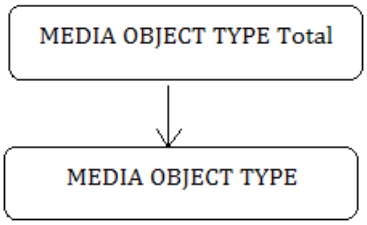
Sr. Number	Attribute	Description
	DEFINITION TYPE	
	AREA SHAPE	
	STATE SALES LOCAL	
	STATE SALES REPORTING	
	EFFECTIVE FROM DATE	
	EFFECTIVE TO DATE	

Media Object Type

Description: MEDIA OBJECT TYPE

Media Object Type Hierarchies

Standard MEDIA OBJECT TYPE Hierarchy:



Media Object Type Levels

The following table shows MEDIA OBJECT TYPE Total: All MEDIA OBJECT TYPE is most aggregate level of the dimension.

Table for MEDIA OBJECT TYPE Total

Sr. Number	Attribute	Description
1	MEDIA OBJECT TYPE Total	Code for All MEDIA OBJECT TYPE Total.

Detail table shows MEDIA OBJECT TYPE Detail: It captures information relating to Media Object Type.

Detail table MEDIA OBJECT TYPE Detail

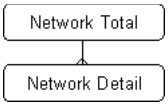
Sr. Number	Attribute	Description
1	MEDIA OBJECT TYPE CODE	The code to identify the Media object.
2	MEDIA OBJECT TYPE DESC	The full Description.
3	MEDIA OBJECT TYPE NAME	The name
4	LANGUAGE CODE	

Network

Description: NETWORK

Network Hierarchies

Standard Network Hierarchy:



Network Levels

Table 3–126 shows Network Total: All Networks are most aggregate level of dimension.

Table 3–126 Network Total

Sr. Number	Attribute	Description
1.	ALL NETWORK CODE	Code for All Network's.

Table 3–127 shows Network Detail: Detail level of the dimension. It stores the Network information.

Table 3–127 Network Detail

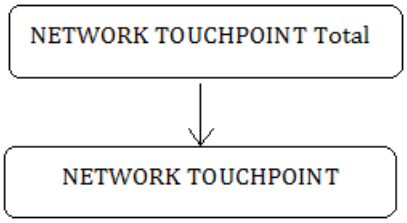
Sr. Number	Attribute	Description	Sample Value
1.	NETWORK CODE	Identifier of the network	CDMA
2.	NETWORK TYPE CODE	A code that uniquely identifies the type of technology (for example GSM, CDMA) being used by a network.	CDMA
3.	EXTERNAL OPERATOR CODE	Unique identifier for operator. For example: Airtel, CMCC, NTT.	
4.	SERVICE PROVIDER CODE	Code of the service provider of the network.	
5.	NETWORK NAME	Name of the network	CDMA
6.	NETWORK DESC	A textual description that describes the type of technology (for example GSM, CDMA) being used by a network.	CDMA

Network Touchpoint

Description: NETWORK TOUCHPOINT

Network Touchpoint Hierarchies

Standard NETWORK TOUCHPOINT Hierarchy:



Network Touchpoint Levels

The following table shows NETWORK TOUCHPOINT Total: All NETWORK TOUCHPOINT is most aggregate level of the dimension.

Table for NETWORK TOUCHPOINT Total

Sr. Number	Attribute	Description
1	NETWORK TOUCHPOINT Total	Code for All NETWORK TOUCHPOINT Total.

Detail table shows NETWORK TOUCHPOINT Detail: It captures information relating to Network Touchpoint.

Detail table NETWORK TOUCHPOINT Detail

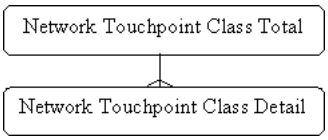
Sr. Number	Attribute	Description
1	GEOGRAPHY ENTITY CODE	Geography Entity Code
2	NETWORK TOUCHPOINT CODE	Identifier of the site.
3	RURAL DELIVERY ADDRESS	Rural delivery instructions. This is implementation dependent.
4	INSTALLATION DATE	The date when the network touchpoint was established.
5	LATITUDE	The latitude measure for the trade area
6	LONGITUDE	The longitude measure for the trade area
7	POSTAL CODE	The site postal code.
8	NETWORK TOUCHPOINT CLASS CODE	Unique identifier of the network touchpoint class.
9	NETWORK TOUCHPOINT STATUS CODE	Unique identifier of the network touchpoint status.
10	NETWORK TOUCHPOINT TYPE CODE	Unique identifier of the network touchpoint type.
11	ADDRESS LOCATION CODE	
12	RESOURCE CODE	

Network Touchpoint Class

Description: NETWORK TOUCHPOINT CLASS

Network Touchpoint Class Hierarchies

Standard Network Touchpoint Class Hierarchy:



Network Touchpoint Class Levels

Table 3–128 shows Network Touchpoint Class Total: All Networks Touch point class are most aggregate level of dimension.

Table 3–128 Network Touchpoint Class Total

Sr. Number	Attribute	Description
1.	NETWORK TOUCHPOINT CLASS TOTAL CODE	Code for All Network Touchpoint class.

Table 3–129 shows Network Touchpoint Class Detail: Detail level of the dimension. It stores the Network Touchpoint class information.

Table 3–129 Network Touchpoint Class Detail

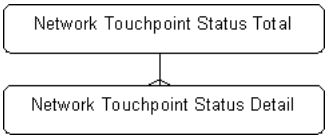
Sr. Number	Attribute	Description	Sample Value
1.	NETWORK TOUCHPOINT CLASS CODE	Unique identifier of the network touchpoint class.	INDVL
2.	NETWORK TOUCHPOINT CLASS NAME	Name of network touchpoint class.	Individual
3.	NETWORK TOUCHPOINT CLASS DESC	Description of network touchpoint class.	Network touchpoint is owned by Individual customer
4.	LANGUAGE CODE	Code for network touchpoint class languages.	

Network Touchpoint Status

Description: NETWORK TOUCHPOINT STATUS

Network Touchpoint Status Hierarchies

Standard Network Touchpoint Status Hierarchy:



Network Touchpoint Status Level

Table 3–130 shows Network Touchpoint Status Total: All Networks Touchpoint Status are most aggregate level of dimension.

Table 3–130 Network Touchpoint Status Total

Sr. Number	Attribute	Description
1.	NETWORK TOUCHPOINT STATUS TOTAL CODE	Code for All Network Touchpoint Status.

Table 3–131 shows Network Touchpoint Status Detail: Detail level of the dimension. It stores the Network Touchpoint Status information.

Table 3–131 Network Touchpoint Status Detail

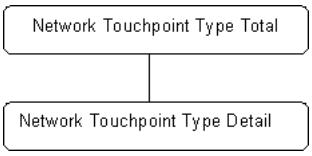
Sr. Number	Attribute	Description
1.	LANGUAGE CODE	Code for network touchpoint status languages
2.	NETWORK TOUCHPOINT STATUS CODE	Unique identifier of the network touchpoint status.
3.	NETWORK TOUCHPOINT STATUS NAME	Name of network touchpoint status.
4.	NETWORK TOUCHPOINT STATUS DESC	Description of network touchpoint status.

Network Touchpoint Type

Description: NETWORK TOUCHPOINT TYPE

Network Touchpoint Type Hierarchies

Standard Network Touchpoint Type Hierarchy:



Network Touchpoint Type Levels

Table 3–132 shows Network Touchpoint Type Total: All Networks Touchpoint Type are most aggregate level of dimension.

Table 3–132 Network Touchpoint Type Total

Sr. Number	Attribute	Description
1.	NETWORK TOUCHPOINT TYPE TOTAL CODE	Code for All Network Touchpoint Type.

Table 3–133 shows Network Touchpoint Type Detail: Detail level of the dimension. It stores the Network Touchpoint Type information.

Table 3–133 Network Touchpoint Type Detail

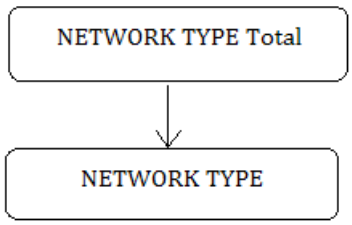
Sr. Number	Attribute	Description	Sample Value
1.	LANGUAGE CODE	Code for network touchpoint type languages	
2.	NETWORK TOUCHPOINT TYPE CODE	Unique identifier of the network touchpoint type.	BRDBND
3.	NETWORK TOUCHPOINT TYPE NAME	Name of the network touchpoint type.	Broadband
4.	NETWORK TOUCHPOINT TYPE DESC	Description of network touchpoint type.	Broadband

Network Type

Description: `NETWORK TYPE`

Network Type Hierarchies

Standard NETWORK TYPE Hierarchy:



Network Type Levels

The following table shows NETWORK TYPE Total: All NETWORK TYPE is most aggregate level of the dimension.

Table for NETWORK TYPE Total

Sr. Number	Attribute	Description
1	NETWORK TYPE Total	Code for All NETWORK TYPE Total.

Detail table shows NETWORK TYPE Detail: It captures information relating to Network Type.

Detail table NETWORK TYPE Detail

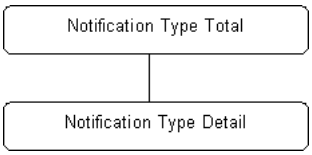
Sr. Number	Attribute	Description	Sample Value
1	NETWORK TYPE CODE	A code that uniquely identifies the type of technology (for example GSM, CDMA) being used by a network.	GSM, CDMA
2	NETWORK TYPE NAME	A name assigned to the type of technology (for example GSM, CDMA) being used by a network.	GSM, CDMA
3	NETWORK TYPE DESC	A textual description that describes the type of technology (for example GSM, CDMA) being used by a network.	GSM, CDMA

Notification Type

Description: NOTIFICATION TYPE

Notification Type Hierarchies

Standard Notification Type Hierarchy:



Notification Type Levels

Table 3–134 shows Notification Type Total: All Notification Type are most aggregate level of dimension.

Table 3–134 Notification Type Total

Sr. Number	Attribute	Description
1.	NOTIFICATION TYPE TOTAL CODE	Code for All Notification Type total.

Table 3–135 shows Notification Type Detail: Detail level of the dimension. It stores the Notification Type information.

Table 3–135 Notification Type Detail

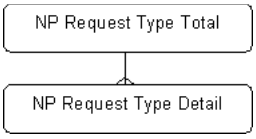
Sr. Number	Attribute	Description	Sample Value
1.	LANGUAGE CODE	Code for Notification type languages	
2.	NOTIFICATION TYPE CODE	Code for UMS Notification Type.	FAX
3.	NOTIFICATION TYPE DESC	Description of the UMS Notification Type.	Fax
4.	NOTIFICATION TYPE NAME	Name of the UMS Notification Type.	Fax

NP Request Type

Description: NP REQUEST TYPE

NP Request Type Hierarchies

Standard NP Request Type Hierarchy:



NP Request Type Levels

Table 3–136 shows NP Request Type Total: All NP Request Type Total are most aggregate level of dimension.

Table 3–136 NP Request Type Total

Sr. Number	Attribute	Description
1.	NP REQUEST TYPE TOTAL CODE	Code for All NP Request Types Total.

Table 3–137 shows NP Request Type Detail: Detail level of the dimension. It stores the NP Request Type information.

Table 3–137 NP Request Type Detail

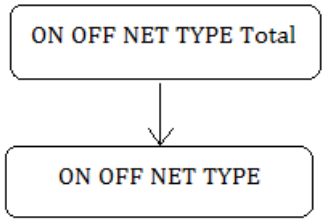
Sr. Number	Attribute	Description	Sample Value
1.	LANGUAGE CODE	Code for NP Request Type language	
2.	NP REQUEST TYPE CODE	A code, used to uniquely identify the NP REQUEST TYPE.	IN
3.	NP REQUEST TYPE NAME	The name assigned to the NP REQUEST TYPE.	Porting In
4.	NP REQUEST TYPE DESC	A textual description of the NP REQUEST TYPE.	Porting In

On Off Net Type

Description: `ON OFF NET TYPE`

On Off Net Type Hierarchies

Standard ON OFF NET TYPE Hierarchy:



On Off Net Type Levels

The following table shows ON OFF NET TYPE Total: All ON OFF NET TYPE is most aggregate level of the dimension.

Table for ON OFF NET TYPE Total

Sr. Number	Attribute	Description
1	ON OFF NET TYPE Total	Code for All ON OFF NET TYPE Total.

Detail table shows ON OFF NET TYPE Detail: It captures information relating to On Off net Type.

Detail table ON OFF NET TYPE Detail

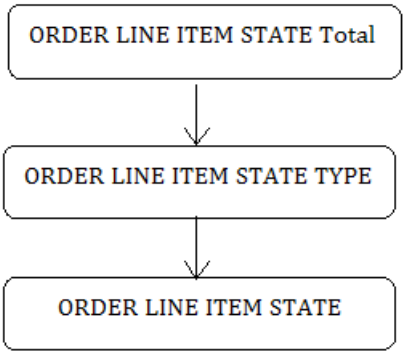
Sr. Number	Attribute
1	LANGUAGE CODE
2	ON OFF NET TYPE DESC
3	ON OFF NET TYPE CODE
4	ON OFF NET TYPE NAME

Order Line Item State

Description: `ORDER LINE ITEM STATE`

Order Line Item State Hierarchies

Standard ORDER LINE ITEM STATE Hierarchy:



Order Line Item State Levels

The following table shows ORDER LINE ITEM STATE Total: All ORDER LINE ITEM STATE is most aggregate level of the dimension.

Table for ORDER LINE ITEM STATE Total

Sr. Number	Attribute	Description
1	ORDER LINE ITEM STATE Total	Code for All ORDER LINE ITEM STATE Total.

Detail table shows ORDER LINE ITEM STATE TYPE Detail: It captures information relating to Order Line item State Type.

Detail table ORDER LINE ITEM STATE TYPE Detail

Sr. Number	Attribute
1	ORDER LINE ITEM STATE TYPE DESC
2	ORDER LINE ITEM STATE TYPE NAME
3	ORDER LINE ITEM STATE TYPE CODE

Detail table shows ORDER LINE ITEM STATE Detail: It captures information relating to Order Line item State.

Detail table ORDER LINE ITEM STATE Detail

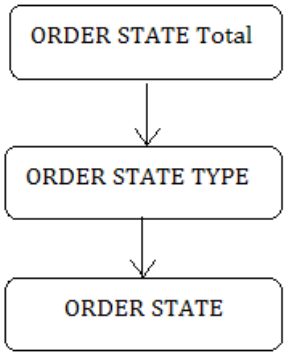
Sr. Number	Attribute	Description	Sample Value
1	ORDER LINE ITEM STATE CODE	A unique retailer assigned code denoting a potential state for a CustomerOrderLineItem. For example,: Deleted, Pending, PartialDelivery, DeliveryComplete, PartialPickup, PickupComplete and so on.	Deleted, Pending, PartialDelivery, DeliveryComplete, PartialPickup, PickupComplete
2	ORDER LINE ITEM STATE DESC	The description of the retailer assigned OrderLineItem state.	
3	ORDER LINE ITEM STATE NAME		
4	ORDER LINE ITEM STATE TYPE CODE		
5	STATUS CODE		
6	EFFECTIVE TO DATE		
7	EFFECTIVE FROM DATE		

Order State

Description: `ORDER STATE`

Order State Hierarchies

Standard ORDER STATE Hierarchy:



Order State Levels

The following table shows ORDER STATE Total: All ORDER STATE is most aggregate level of the dimension.

Table for ORDER STATE Total

Sr. Number	Attribute	Description
1	ORDER STATE Total	Code for All ORDER STATE Total

Detail table shows ORDER STATE TYPE Detail: It captures information relating to Order State Type.

Detail table ORDER STATE TYPE Detail

Sr. Number	Attribute
1	ORDER STATE TYPE DESC
2	ORDER STATE TYPE CODE
3	ORDER STATE TYPE NAME

Detail table shows ORDER STATE Detail: It captures information relating to Order State.

Detail Table ORDER STATE Detail

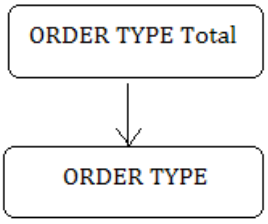
Sr. Number	Attribute	Description
1	ORDER STATE DESC	The description of the Order State
2	ORDER STATE CODE	The Unique identifier for Order State
3	ORDER STATE TYPE CODE	
4	ORDER STATE NAME	
5	EFFECTIVE TO DATE	
6	EFFECTIVE FROM DATE	
7	STATUS CODE	

Order Type

Description: `ORDER TYPE`

Order Type Hierarchies

Standard ORDER TYPE Hierarchy:



Order Type Levels

The following table shows ORDER TYPE Total: All ORDER TYPE is most aggregate level of the dimension.

Table for ORDER TYPE Total

Sr. Number	Attribute	Description
1	ORDER TYPE Total	Code for All ORDER TYPE Total.

Detail table shows ORDER TYPE Detail: It captures information relating to Order Type.

Detail table ORDER TYPE Detail

Sr. Number	Attribute	Description
1	ORDER TYPE DESC	Description of Customer order type
2	ORDER TYPE CODE	Unique identifier for customer order type
3	ORDER TYPE NAME	
4	LANGUAGE CODE	

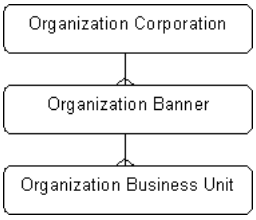
Organization

Description: ORGANIZATION HIERARCHY is the hierarchy of business units within the organization, with ORGANIZATION BUSINESS UNIT as lowest level and ORGANIZATION CORPORATE as highest level.

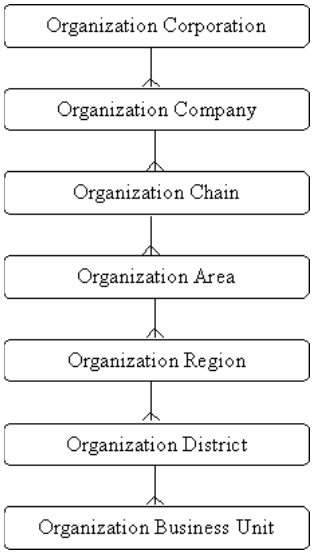
Organization Hierarchies

Standard Organization Hierarchy:

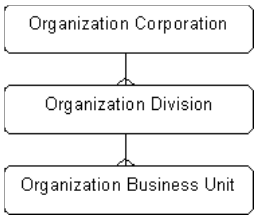
Banner Hierarchy



Company Hierarchy:



Division Hierarchy:



Organization Corporate Levels

Table 3–138 shows All Organization Total: All Organization Total are most aggregate level of dimension.

Table 3–138 All Organization Total

Sr. Number	Attribute	Description
1.	ORGANIZATION TOTAL Id's	Code for All Organization Total.

Table 3–139 shows Organization Corporate: Description level of the dimension. It stores the Organization Corporate information.

Table 3–139 Organization Corporate

Sr. Number	Attribute	Description	Sample Value
1.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
2.	EFFECTIVE TO DATE	End effective date for the assignment.	12/31/2005 12:00:00 AM
3.	ORGANIZATION CORPORATE CODE	Code for Organization Corporate	
4.	ORGANIZATION CORPORATE DESC	Description for Organization Corporate	
5.	ORGANIZATION CORPORATE ESTABLISHED		
6.	ORGANIZATION CORPORATE NAME	Name for Organization Corporate	
7.	STATUS CODE	Current STATUS CODE of the assignment.	

Organization Banner Levels

Table 3–140 shows Organization Banner Levels: The name of a company's subsidiary that is recognizable to the consumer or the name of the store as it appears on the catalog, web channel or brick and mortar store.

Table 3–140 Organization Banner Levels

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION BANNER ID's	Code for All Organization Banner.

Table 3–141 shows Organization Banner: Description level of the dimension. It stores the Organization Banner information.

Table 3–141 Organization Banner

Sr. Number	Attribute	Description	Sample Value
1.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
2.	EFFECTIVE TO DATE	End effective date for the assignment.	12/31/2005 12:00:00 AM
3.	ORGANIZATION BANNER CODE	Code for Organization Banner	
4.	ORGANIZATION BANNER DESC	Description for Organization Banner.	
5.	ORGANIZATION BANNER NAME	Name for Organization Banner	
6.	ORGANIZATION CORPORATE CODE	Code for Organization Corporate	
7.	STATUS CODE	Current STATUS CODE of the assignment.	

Organization Company Levels

Table 3–142 shows All Organization Company: All Organization Company are most aggregate level of Dimension.

Table 3–142 All Organization Company

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION COMPANY ID's	Code for All Organization Company.

Table 3–143 shows Organization Company: Description level of the dimension. It stores the Organization Company information.

Table 3–143 Organization Company

Sr. Number	Attribute	Description	Sample Value
1	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 0:00
2	ORGANIZATION COMPANY DESC	Description for Organization Company	
3	ORGANIZATION COMPANY CODE	Code for Organization Company	
4	EFFECTIVE TO DATE	End effective date for the assignment.	12/31/2005 12:00:00 AM
5	ORGANIZATION COMPANY NAME	Name for Organization Company	
6	ORGANIZATION CORPORATE CODE		
7	STATUS CODE	Current STATUS CODE of the assignment.	

Organization Division Levels

Table 3–144 shows Organization Division Total: All Organization Division are most aggregate level of dimension.

Table 3–144 Organization Division Total

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION DIVISION ID's	Code for All Organization Division.

Table 3–145 shows Organization Division: Description level of the dimension. It stores the Organization Division information.

Table 3–145 Organization Division

Sr. Number	Attribute	Description	Sample Value
1.	ORGANIZATION DIVISION CODE	Code for Organization Division	Ace Comms
3.	ORGANIZATION CORPORATE CODE	Code for Organization Code	
4.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
5.	ORGANIZATION DIVISION DESC	Description for Organization Division	Ace Comms
6.	ORGANIZATION DIVISION NAME	Name for Organization Division	Ace Comms
7.	STATUS CODE	Current STATUS CODE of the assignment.	
	EFFECTIVE TO DATE		

Organization Chain: Organization Chain Levels

Table 3–146 shows Organization Chain Total: Chain is the second highest level within the organization hierarchy below company. A chain consists of one or more areas.

Table 3–146 Organization Chain Total

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION CHAIN ID's	Code for All Organization Chain.

Table 3–147 shows Organization Chain Detail: Description level of the dimension. It stores the Organization Chain information

Table 3–147 Organization Chain Detail

Sr. Number	Attribute	Description
1.	ORGANIZATION CHAIN CODE	Code for Organization chain
2.	ORGANIZATION CHAIN DESC	Description for Organization Chain
3.	ORGANIZATION CHAIN NAME	Name for Organization Chain
4.	EFFECTIVE FROM DATE	Description for Organization Chain
5.	EFFECTIVE TO DATE	End effective date for the assignment.
6.	ORGANIZATION COMPANY CODE	Code for Organization Company
7.	STATUS CODE	Current STATUS CODE of the assignment.

Organization Area

Table 3–148 shows Organization Area Total: Organization hierarchy level within an organization chain and is the parent of one or more organization regions.

Table 3–148 Organization Area Total

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION AREA ID's	Code for All Organization Area.

Table 3–149 shows Organization Area Detail: Description level of the dimension. It stores the Organization Area information.

Table 3–149 Organization Area Detail

Sr. Number	Attribute	Description	Sample Value
1.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
2.	EFFECTIVE TO DATE	End effective date for the assignment.	12/31/2005 12:00:00 AM
3.	ORGANIZATION AREA CODE	Code for Organization area	
4.	ORGANIZATION AREA DESC	Description for Organization Area	
5.	ORGANIZATION AREA NAME	Name for Organization Area	
6.	ORGANIZATION CHAIN CODE	Code for Organization Chain	
7.	STATUS CODE	Current STATUS CODE of the assignment.	

Organization Region Levels

Table 3–150 shows All Organization Regions: Region is the fourth highest attribute within the organization hierarchy, below area. A region consists of one or more districts

Table 3–150 All Organization Regions

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION REGION ID's	Code for All Organization Region.

Table 3–151 shows Organization Region: Description level of the dimension. It stores the Organization Region information.

Table 3–151 Organization Region

Sr. Number	Attribute	Description	Sample Value
1.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	12/31/2005 12:00:00 AM
2.	EFFECTIVE TO DATE	End effective date for the assignment.	12/31/2005 12:00:00 AM
3.	ORGANIZATION AREA CODE	Code for Organization area.	
4.	ORGANIZATION REGION CODE	Code for Organization region	
5.	ORGANIZATION REGION DESC	Description for Organization region	
6.	ORGANIZATION REGION NAME	Name for Organization Region	
7.	STATUS CODE	Current STATUS CODE of the assignment.	

Organization District Levels

Table 3–152 shows All Organization District: District is the fifth highest attribute within the organization hierarchy, below region. A district consists of one or more business units.

Table 3–152 All Organization District

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION DISTRICT ID's	Code for All Organization District.

Table 3–153 shows Organization District: Description level of the dimension. It stores the Organization District information.

Table 3–153 Organization District

Sr. Number	Attribute	Description	Sample Value
1.	ORGANIZATION DISTRICT CODE	Code for Organization District	12/31/2005 12:00:00 AM
2.	EFFECTIVE TO DATE	End effective date for the assignment.	12/31/2005 12:00:00 AM
3.	EFFECTIVE FROM DATE	Active from. Standard SCD field, Effective Start Date	
4.	ORGANIZATION DISTRICT DESC	Description for Organization District	
5.	ORGANIZATION DISTRICT NAME	Name for Organization District	
6.	ORGANIZATION REGION CODE	Code for Organization Region.	
7.	STATUS CODE	Current STATUS CODE of the assignment.	

Organization Business Unit

Organization business unit contains 2 kinds of information -store and branch company. In the higher level is branch company. Some customer cannot belong to a particular store, in that case, they are associated with a branch company. So branch company are put in organization business unit level. A business unit of the organization that sells, stores, or distributes merchandises and services through either a physical location (store), catalog, web page or other channel, distribution center, or warehouse.

Table 3–154 shows All Organization Business Unit: It is the lowest level of Organization.

Table 3–154 All Organization Business Unit

Sr. Number	Attribute	Description
1.	ALL ORGANIZATION BUSINESS UNIT ID's	Code for All Organization Business Unit.

Table 3–155 shows Organization Business Unit: Description level of the dimension. It stores the Organization Business Unit information.

Table 3–155 Organization Business Unit

Sr. Number	Attribute	Description
1	ADDRESS LINE 1	Address. Line one of detailed postal address
2	ADDRESS LINE 2	Address. Line 2 of the detailed postal address
3	ADDRESS LINE 3	Address. Line 3 of the detailed postal address
4	ADDRESS LOCATION CODE	unique identifier for the address Location
5	ADDRESS TYPE CODE	Unique identifier of the address type.
6	ADDRESS USAGE	Describes how the address is used

Table 3–155 (Cont.) Organization Business Unit

Sr. Number	Attribute	Description
7	ANNUAL REVENUE	Revenue of the company.
8	ANNUAL REVENUE LOCAL	Revenue of the company.
9	ANNUAL REVENUE REPORTING	Revenue of the company.
10	ANNUAL SALES	Sales of the company
11	ANNUAL SALES LOCAL	Sales of the company
12	ANNUAL SALES REPORTING	Sales of the company
13	BANKRUPTCY END DATE	The end date of bankruptcy. If current date is behind start and end date is null, then the company is undergoing the bankruptcy process.
14	BANKRUPTCY START DATE	start date of bankruptcy.
15	BUSINESS ENTITY CODE	Business Entity Identifier. Unique Identifier for Business Entity. For example: SPRINT
16	BUSINESS UNIT CONCEPT	"Possible values include, Convenience, General Merchandise, Category dominant anchors with few small tenants, Fashion, Higher-end (Upscale), Fashion oriented, Manufacturer's Outlet, Leisure, Tourist oriented and Discount."
18	BUSINESS UNIT TYPE CODE	Unique identifier of the business unit type
19	CHAIRMAN CODE	Connect to Another Person Party who is responsible for this Organization.
20	CHANNEL TYPE CODE	Unique identifier of the channel type
21	COMPANY REGISTRY NUMBER	Will be same as Party. National_Identifier. Natural Key for Organization.
45	ACCOUNT CLERK CODE	This field is client specific. The definition and use of this field is customizable for each client
46	MANAGER EMPLOYEE NUMBER	Unique key denoting the employee number of the employee's manager.
47	MANAGER NAME	Name of manager for the whole company.
48	ORGANIZATION BANNER CODE	Unique identifier for Organization Banner
49	ORGANIZATION BUSINESS UNIT CODE	Unique identifier for Business Unit. To identify whether the site is a store, distribution center or warehouse. For example: SPRINT1
50	ORGANIZATION BUSINESS UNIT TYPE CODE	Unique identifier for Organization Business Unit Type
51	ORGANIZATION CODE	The unique identifier of the organization. For example: ORGUNIT1
52	ORGANIZATION DISTRICT CODE	Unique identifier for Organization district
53	ORGANIZATION DIVISION CODE	Unique identifier for division. For example: China Mobile Beijing
54	ORGANIZATION NAME	Name of the organization
55	ORGANIZATIONAL DEMOGRAPHY VALUE CODE	Unique identifier for demography
56	PAYMENT ACCOUNT CLOSE DATE	Closing date of the account for payments. For example: 12/31/2005 12:00:00 AM
57	PAYMENT ACCOUNT NUMBER	Account number for payments.
58	PAYMENT ACCOUNT OPEN DATE	Opening date of the account for payments. For example: 12/31/2005 12:00:00 AM
59	POSTAL PLUS CODE	Four digit extension to the United States Postal ZIP code.
60	POSTCODE	Postal codes of interest to the Retail Organization
61	PRIMARY ADDRESS TELEPHONE	Default Address Telephone Number

Table 3–155 (Cont.) Organization Business Unit

Sr. Number	Attribute	Description
62	PRIMARY BUSINESS UNIT CALENDAR CODE	Primary Business Unit Calendar Code
63	PRIMARY CURRENCY ISO CODE	The unique ISO standard identifier of the CURRENCY
64	PRIMARY EMAIL ADDRESS	Default Email Address
65	PRIMARY TRADE AREA CODE	Primary Trade area code, under which the business unit falls
66	SEAL IMAGE	The image of the Organization's Seal, or the Artificial Person's Signature.
67	SECONDARY DESCRIPTION	"The secondary description or name of the store or warehouse."
68	SHOPPING CENTER TYPE	Shopping center is group of retail and other commercial establishments that is planned, developed, owned, and managed as a single property. Strip Center (Neighborhood, Community)- Mall (Power, Super Regional, Regional, Fashion/Specialty, Lifestyle, Outlet, Theme/Festival)".
70	SHORT DESCRIPTION	The 3 character abbreviation of the store name.
71	STOCK EXCHANGE NAME	Abbreviation of listed companies as used on the stock exchange.
72	TAX EXEMPT STATUS	Indicates if the org. is tax exempt.
73	TERMINATION DATE	Termination date of the company in case of company was founded with termination date. For example: 12/31/2005 12:00:00 AM
74	TIME ZONE	It denotes which TimeZone the Site is in.
75	TOTAL LINEAR DISTANCE	The total linear selling space of the location.
76	VALIDATION END DATE	Effective date of the deletion of the company's record from the company register. For example: 12/31/2005 12:00:00 AM
77	VALIDATION START DATE	Date of the registration of the company' record deletion from the company register. For example: 12/31/2005 12:00:00 AM
78	VAT INCLUDE INDICATOR	Indicates whether the Value Added Tax will be included in the retail prices for the store. Valid values are 'Y' or 'N'."
80	VAT REGION	"The number of the Value Added Tax region in which this store or warehouse is contained."
	PARTY CODE	
	PARTY TYPE CODE	
	BUSINESS LEGAL STATUS CODE	
	SOURCE SYSTEM CODE	
	BARING REASON CODE	
	STATUS CODE	
	CITY	
	STATE	
	COUNTRY	
	PARTY NAME	
	PARTY DESC	
	LOCATION TYPE CODE	
	CONTACT TYPE CODE	
	ADDRESS	
	PRIMARY MARKET AREA CODE	
	ACTIVE INDICATOR	

Table 3–155 (Cont.) Organization Business Unit

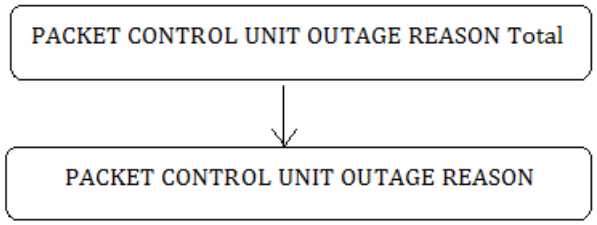
Sr. Number	Attribute	Description
	CUSTOMER INDICATOR	
	JUDICIAL DISTRAINT CODE	
	CONTACT CODE	
	COURT CODE	
	MANAGER CODE	
	DUNS NUMBER	
	CONTACT NUMBER	
	LONG DESCRIPTION	
	CONSTRUCTION STATUS	
	CONTACT NAME	
	EXTERNAL NAME	
	EMPLOYEE COUNT	
	EQUITY AMOUNT	
	EQUITY AMOUNT LOCAL	
	EQUITY AMOUNT REPORTING	
	LIQUIDATION START DATE	
	LIQUIDATION END DATE	
	DOMESTIC INDICATOR	
	FINAL SETTLEMENT START DATE	
	FINAL SETTLEMENT END DATE	
	JUDICIAL DISTRAINT DATE	
	EFFECTIVE FROM DATE	
	EFFECTIVE TO DATE	

Packet Control Unit Outage Reason

Description: PACKET CONTROL UNIT OUTAGE REASON

Packet Control Unit Outage Reason Hierarchies

Standard PACKET CONTROL UNIT OUTAGE REASON Hierarchy:



Packet Control Unit Outage Reason Levels

The following table shows PACKET CONTROL UNIT OUTAGE REASON Total: All PACKET CONTROL UNIT OUTAGE REASON is most aggregate level of the dimension.

Table for PACKET CONTROL UNIT OUTAGE REASON Total

Sr. Number	Attribute	Description
1	PACKET CONTROL UNIT OUTAGE REASON Total	Code for All PACKET CONTROL UNIT OUTAGE REASON Total.

Detail table shows PACKET CONTROL UNIT OUTAGE REASON Detail: It captures information relating to Packet Control Unit Outage Reason.

Detail table PACKET CONTROL UNIT OUTAGE REASON Detail

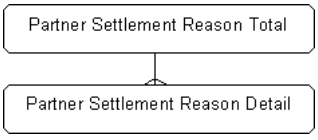
Sr. Number	Attribute
1	PCU OUTAGE REASON CODE
2	PCU OUTAGE REASON DESC
3	LANGUAGE CODE
4	PCU OUTAGE REASON NAME

Partner Settlement Reason

Description: PARTNER SETTLEMENT REASON

Partner Settlement Reason Hierarchies

Standard Partner Settlement Reason Hierarchy:



Partner Settlement Reason Levels

Table 3–156 shows Partner Settlement Reason Total: All Partner Settlement Reason are most aggregate level of dimension.

Table 3–156 Partner Settlement Reason Total

Sr. Number	Attribute	Description
1.	ALL PARTNER SETTLEMENT REASON CODE	Code for All Partner Settlement Reason.

Table 3–157 shows Partner Settlement Reason Detail: Detail level of the dimension. It stores the Partner Settlement Reason information.

Table 3–157 Partner Settlement Reason Detail

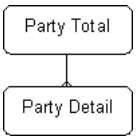
Sr. Number	Attribute	Description
1.	LANGUAGE CODE	Unique identifier for Language
2.	PARTNER SETTLEMENT REASON CODE	Unique identifier for Partner Settlement
3.	PARTNER SETTLEMENT REASON NAME	Name of the Partner Settlement
4.	PARTNER SETTLEMENT REASON DESC	Description for the Partner Settlement

Party

Description: PARTY

Party Hierarchies

Standard Party Hierarchy:



Party Levels

Table 3–158 shows Party Total: All Party is most aggregate level of dimension.

Table 3–158 Party Total

Sr. Number	Attribute	Description
1.	ALL PARTY CODE	Code for All Party.

Table 3–159 shows Party Detail: Detail level of the dimension. It stores the Party information.

Table 3–159 Party Detail

Sr. Number	Attribute	Description	Sample Value
1.	ACTIVE INDICATOR	Indicates if the party is currently active - which means the party has a current relationship with the carrier.	Y
2.	ADDRESS	Address of the party. Redundance to party location history.	
3.	BARING REASON CODE	Reasons for barring. For example, 1-Credit Limit, 2-Barring period.	
4.	BUSINESS LEGAL STATUS CODE	A unique identifier for a legal classification of a non-residential Customer.	
5.	CITY	City of the party. Redundance to party location history.	
6.	COUNTRY	Country of the party. Redundance to party location history.	
7.	CUSTOMER INDICATOR	Indicates if the party is a customer. Note: the party may have multiple relationships simultaneously - this flag identifies those parties which has a current account with the Telecommunications.	
8.	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column	12/31/2005 12:00:00 AM
9.	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column	12/31/2005 12:00:00 AM
10.	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	PRTY-50001

Table 3–159 (Cont.) Party Detail

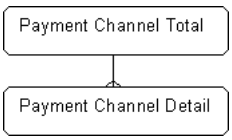
Sr. Number	Attribute	Description	Sample Value
11.	PARTY DESC	Description of the party. Applicable to both individual and organization. Normally it refer to the full name.	Sprint
12.	PARTY NAME	Name of the party. Applicable to both individual and organization. Normally it refer to the full name.	Sprint
13.	PARTY TYPE CODE	Party Type Code	ORGUNIT
14.	POST CODE	Postcode of the party. Redundance to party location history.	
15.	SOURCE SYSTEM CODE	SOURCE SYSTEM ID, from which source ERP system this recorded was extracted.	
16.	STATE	State of the party. Redundance to party location history.	
17.	STATUS CODE	Current status of party.	

Payment Channel

Description: PAYMENT CHANNEL.

Payment Channel Hierarchies

Standard Payment Channel Hierarchy:



Payment Channel Levels

Table 3–160 shows Payment Channel Total: All Payment Channel are most aggregate level of dimension.

Table 3–160 Payment Channel Total

Sr. Number	Attribute	Description
1.	PAYMENT CHANNEL TOTAL ID's	Code for All Payment Channel.

Table 3–161 shows Payment Channel Detail: Detail level of the dimension. It stores the Payment Channel Detail information.

Table 3–161 Payment Channel Detail

Sr. Number	Attribute	Description	Sample Value
1.	CAPACITY QUANTITY	The number of transaction that a Channel can handle, at a point of time.	$1.00
2.	CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	
3.	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	

Table 3–161 (Cont.) Payment Channel Detail

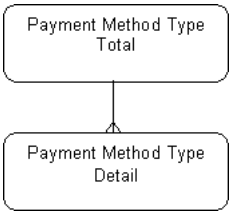
Sr. Number	Attribute	Description	Sample Value
4.	PAYMENT CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	
5.	CHANNEL NAME	The name assigned to a channel.	PAY
6.	CHANNEL TYPE CODE	Unique identifier of the channel type	PAY
	PARTY TYPE CODE		
	CHANNEL DESC		
	EFFECTIVE FROM DATE		
	EFFECTIVE TO DATE		
	STATUS CODE		

Payment Method Type

Description: PAYMENT METHOD TYPE

Payment Method Type Hierarchies

Standard Payment Method Type Hierarchy:



Payment Method Type Levels

Table 3–162 shows Payment Method Type Total: All Payment Method Types are most aggregate level of dimension.

Table 3–162 Payment Method Type Total

Sr. Number	Attribute	Description
1.	PAYMENT METHOD TYPE TOTAL ID's	Code for All Payment Method Types.

Table 3–163 shows Payment Method Type Detail: Detail level of the dimension. It stores the Payment Method Type Detail information.

Table 3–163 Payment Method Type Detail

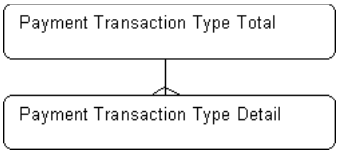
Sr. Number	Attribute	Description	Sample Value
1.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	
2.	PAYMENT METHOD TYPE CODE	Code for All Payment Methods Types	BNK
3.	PAYMENT METHOD TYPE DESC	Payment Method Type Description.	Bank
4.	PAYMENT METHOD TYPE NAME	Payment Method Type Name.	Bank

Payment Transaction Type

Description: PAYMENT TRANSACTION TYPE

Payment Transaction Type Hierarchies

Standard Payment Transaction Type Hierarchy:



Payment Transaction Type Levels

Table 3–164 shows Payment Transaction Type Total: All Payment Transaction Type are most aggregate level of dimension.

Table 3–164 Payment Transaction Type Total

Sr. Number	Attribute	Description
1.	PAYMENT TRANSACTION TYPE TOTAL CODE	Code for All Payment Transaction Type.

Table 3–165 shows Payment Transaction Type Detail: Detail level of the dimension. It stores the Payment Transaction Type Detail information.

Table 3–165 Payment Transaction Type Detail

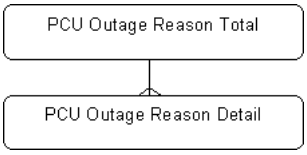
Sr. Number	Attribute	Description	Sample Value
1.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.	
2.	PAYMENT TRANSACTION TYPE CODE	Code for payment transaction type.	CRDT
3.	PAYMENT TRANSACTION TYPE DESC	Description for payment transaction type.	Credit
4.	PAYMENT TRANSACTION TYPE NAME	Name of payment transaction type.	credit

PCU Outage Reason

Description: `PACKET CONTROL UNIT OUTAGE REASON`

PCU Outage Reason Hierarchies

Standard PCU Outage Reason Hierarchy:



PCU Outage Reason Levels

Table 3–166 shows PCU Outage Reason Total: All PCU Outage Reason are most aggregate level of dimension.

Table 3–166 PCU Outage Reason Total

Sr. Number	Attribute	Description
1.	PCU OUTAGE REASON TOTAL CODE	Code for All PCU Outage Reason.

Table 3–167 shows PCU Outage Reason Detail: Detail level of the dimension. It stores the PCU Outage Reason Detail information.

Table 3–167 PCU Outage Reason Detail

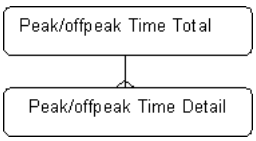
Sr. Number	Attribute	Description
1.	LANGUAGE CODE	Language ID---Unique identifier for a row in the Language dimension.
2.	PCU OUTAGE REASON CODE	Code for PCU outage reason.
3.	PCU OUTAGE REASON DESC	Description for PCU outage reason.
4.	PCU OUTAGE REASON NAME	Name of PCU outage reason.

Peak Offpeak Time

Description: PEAK OFFPEAK TIME

Peak Offpeak Time Hierarchies

Standard Peak Offpeak Time Hierarchy:



Peak Offpeak Time Levels

Table 3–168 shows Peak Offpeak Time Total: All Peak Offpeak Time is most aggregate level of dimension.

Table 3–168 Peak Offpeak Time Total

Sr. Number	Attribute	Description
1.	PEAK OFFPEAK TIME TOTAL Id's	Code for All Peak Offpeak Time.

Table 3–169 shows Peak Offpeak Time Detail: Detail level of the dimension. It stores the Peak Offpeak Time Detail information.

Table 3–169 Peak Offpeak Time Detail

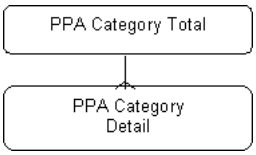
Sr. Number	Attribute	Description	Sample Value
1.	HOLIDAY INDICATOR	Indicates if the time band applies on designated public holidays.	N
2.	PEAK OFFPEAK END	This is to express start and end date for all days, therefore it use varchar2 rather than date data type.	4/1/2008 5:00:00 PM
3.	PEAK OFFPEAK START	This is to express start and end date for all days, therefore it use varchar2 rather than date data type.	4/1/2008 5:00:00 PM
4.	PEAK OFFPEAK TIME CODE	Indicates if this time is busy hour.	PK
5.	PEAK OFFPEAK TIME DESC	Peak Off peak Time Description	
6.	PEAK OFFPEAK TIMENAME	Peak Off peak Time name	Peak Time
7.	WEEKDAY INDICATOR	Indicates if the time band applies on week days (Monday through Friday).	Y
8.	WEEKEND INDICATOR	Indicates if the time band applies on weekends (Saturday and Sunday).	Y
	LANGUAGE CODE		

PPA Category

Description: PPA CATEGORY

PPA Category Hierarchies

Standard PPA Category Hierarchy:



PPA Category Levels

Table 3–170 shows PPA Category Total: Most Aggregate level of the dimension.

Table 3–170 PPA Category Total

Sr. Number	Attribute	Description
1.	PPA CATEGORY TOTAL ID	Code for All PPA Categories

Table 3–171 shows PPA Category Detail: level of the dimension, stores PPA Category information.

Table 3–171 PPA Category Detail

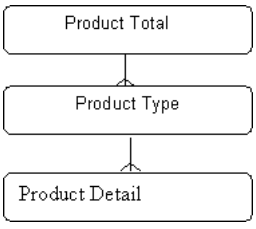
Sr. Number	Attribute	Description	Sample Value
1.	PPA CATEGORY CD	PPA Category code	FLANSWER
2.	LANGUAGE CODE	Language Code	
3.	PPA CATEGORY NAME	PPA Category Short Description	Free Local Answer
4.	PPA CATEGORY DESCRIPTION	PPA Category Description	free local answer

Product

Description: PRODUCT SPECIFICATION

Product Hierarchies

Standard Product Hierarchy:



Product Levels

Table 3–172 shows Product Total: This is the most aggregate level of the product dimension and hence represents the summation for all products including prepaid and post paid products/packages in the company.

Table 3–172 Product Total

Sr. Number	Attribute	Description
1.	All PRODUCTS ID	Identification for the top level value

Table 3–173 shows Product Type: The level classifies products into two main categories, that is, Prepaid and Postpaid products.

Table 3–173 Product Type

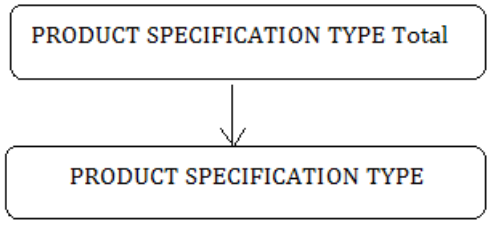
Sr. Number	Attribute	Description	Sample Value
1.	PRODUCT TYPE CD	Product Type Code	BB
2.	PRODUCT TYPE DESCRIPTION	Product Type Description	Broad Band
	PRODUCT TYPE NAME		
	PRODUCT TYPE DESC		
	EFFECTIVE FROM DATE		
	EFFECTIVE TO DATE		
	STATUS CODE		

Product Specification Type

Description: `PRODUCT SPECIFICATION TYPE`

Product Specification Type Hierarchies

Standard PRODUCT SPECIFICATION TYPE Hierarchy:



Product Specification Type Levels

The following table shows PRODUCT SPECIFICATION TYPE Total: All PRODUCT SPECIFICATION TYPE is most aggregate level of the dimension.

Table for PRODUCT SPECIFICATION TYPE Total

Sr. Number	Attribute	Description
1	PRODUCT SPECIFICATION TYPE Total	Code for All PRODUCT SPECIFICATION TYPE Total.

Detail table shows PRODUCT SPECIFICATION TYPE Detail: It captures information relating to Product Specification Type.

Detail table PRODUCT SPECIFICATION TYPE Detail

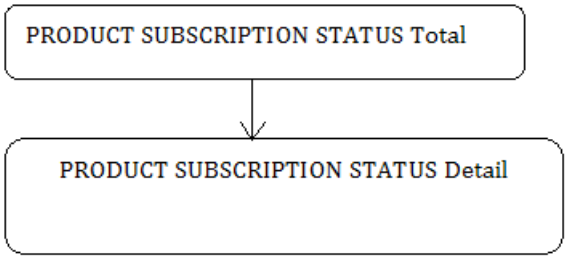
Sr. Number	Attribute	Description
1	PRODUCT SPECIFICATION TYPE CODE	Code
2	PRODUCT SPECIFICATION TYPE DESC	FULL DESC<>
3	PRODUCT SPECIFICATION TYPE NAME	The Title.
4	STATUS CODE	
5	EFFECTIVE TO DATE	
6	EFFECTIVE FROM DATE	

Product Subscription Status

Description: PRODUCT SUBSCRIPTION STATUS

Product Subscription Status Hierarchies

Standard PRODUCT SUBSCRIPTION STATUS Hierarchy:



Product Subscription Status Levels

The following table shows PRODUCT SUBSCRIPTION STATUS Total: All PRODUCT SUBSCRIPTION STATUS is most aggregate level of the dimension.

Table for PRODUCT SUBSCRIPTION STATUS Total

Sr. Number	Attribute	Description
1	PRODUCT SUBSCRIPTION STATUS Total	Code for All PRODUCT SUBSCRIPTION STATUS Total.

Detail table shows PRODUCT SUBSCRIPTION STATUS Detail: It captures information relating to Product Subscription Status.

Detail table PRODUCT SUBSCRIPTION STATUS Detail

Sr. Number	Attribute	Description	Sample Value
1	PRODUCT SUBSCRIPTION STATUS CODE	A code used to uniquely identify the classifications for a Subscription. Examples: A - Active, I - Inactive, P - Prospective.	A - Active, I - Inactive, P - Prospective
2	PRODUCT SUBSCRIPTION STATUS DESC	A textual description for a Subscription Status Type.	

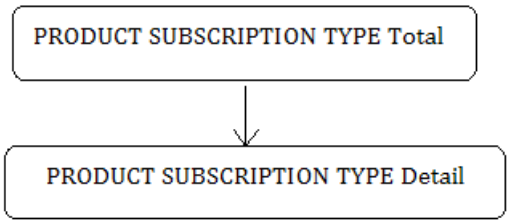
3	PRODUCT SUBSCRIPTION STATUS NAME	The name assigned to a Subscription Status Type. Examples: Active, Inactive, Prospective.	Active, Inactive, Prospective
4	PRODUCT SUBSCRIPTION STATUS CATEGORY CODE		
5	LANGUAGE CODE		

Product Subscription Type

Description: PRODUCT SUBSCRIPTION TYPE

Product Subscription Type Hierarchies

Standard PRODUCT SUBSCRIPTION TYPE Hierarchy:



Product Subscription Type Levels

The following table shows PRODUCT SUBSCRIPTION TYPE Total: All PRODUCT SUBSCRIPTION TYPE is most aggregate level of the dimension.

Table for PRODUCT SUBSCRIPTION TYPE Total

Sr. Number	Attribute	Description
1	PRODUCT SUBSCRIPTION TYPE Total	Code for All PRODUCT SUBSCRIPTION TYPE Total.

Detail table shows PRODUCT SUBSCRIPTION TYPE Detail: It captures information relating to Product Subscription Type.

Detail table PRODUCT SUBSCRIPTION TYPE Detail

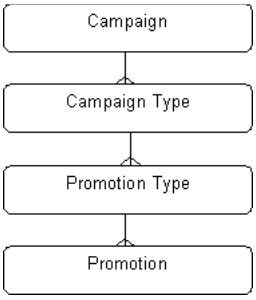
Sr. Number	Attribute	Description
1	PRODUCT SUBSCRIPTION TYPE CATEGORY CODE	Category or classification of the subscription type. Can be used for grouping subscription types for analysis or reporting.
2	PRODUCT SUBSCRIPTION TYPE CODE	Identifier of the subscription type.
3	PRODUCT SUBSCRIPTION TYPE NAME	Name or description of the subscription type.
4	PRODUCT SUBSCRIPTION TYPE DESC	Name or description of the subscription type.
5	LANGUAGE CODE	

Promotion

Description: PROMOTION

Promotion Hierarchies

Standard Promotion Hierarchy:



Promotion Levels

Table 3–174 shows Campaign: A campaign is a concentrated effort to enhance the image of the enterprise, to retain, acquire, or consolidate customers.

Table 3–174 Campaign

Sr. Number	Attribute	Description	Sample Value
1	CAMPAIGN CODE	Unique Identifier for Campaign	CMPGN-1
2	CAMPAIGN DESC	A textual description of the Campaign.	
3	CAMPAIGN NAME	Short Name of the Campaign	
4	CAMPAIGN PURPOSE	Campaign purpose. The purpose of the campaign being conducted, in most of scenarios this field would be empty since this would be addressed in the Theme and Promotion Theme. But when this campaign is being executed as a continuation of a previous campaign due to demand, this field would contain the reason for that continuation.	ACQUIRE
5	CAMPAIGN PURPOSE TYPE CODE	Unique Identifier for a Campaign purpose type	
6	CAMPAIGN STATUS CODE	A code used to uniquely identify strategy of a Campaign.	CSTAT
7	CAMPAIGN TYPE CODE	Unique Identifier for a Campaign type.	MMPRMTN
8	COST AMOUNT	The monetary cost of a Campaign.	
9	COST AMOUNT LOCAL	The monetary cost of a Campaign.	
10	COST AMOUNT REPORTING	The monetary cost of a Campaign.	
11	COST CODE	Identify the cost to the Carrier.	
12	EFFECTIVE FROM DATE	The start date of a Campaign.	12/31/2005 12:00:00 AM
13	EFFECTIVE TO DATE	The end date of a Campaign.	12/31/2005 12:00:00 AM
14	FUND SOURCE CODE	Campaign fund source type. Possible values would include, Vendor Sponsored, Charity and so on.	
15	GLOBAL IND	Flag to indicate if the campaign is run globally. Flag to indicate if the campaign is run globally.	
16	PARTNER IND	Indicates if the campaign has partners. Indicates if the campaign has partners	
17	PARTNER NUMBER	Identification number for partner.	
18	PLANNED COST	Planned or budgeted total cost for the campaign.	
19	PLANNED COST LOCAL	Planned or budgeted total cost for the campaign.	

Table 3–174 (Cont.) Campaign

Sr. Number	Attribute	Description	Sample Value
20	PLANNED COST REPORTING	Planned or budgeted total cost for the campaign.	
21	PLANNED RESPONSE	Expected or planned response for the campaign.	
22	PRIORITY	Campaign priority. Campaign priority	

Table 3–175 shows Campaign Type:

Table 3–175 Campaign Type

Sr. Number	Attribute	Description	Sample Value
	CAMPAIGN TYPE CODE	A code used to uniquely identify a CAMPAIGN TYPE.	TGPRMTN
	CAMPAIGN TYPE DESC	A textual description of a CAMPAIGN TYPE.	A Targeted Promotion
	CAMPAIGN TYPE NAME	The name assigned to a CAMPAIGN TYPE.	Targeted Promotion
	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Table 3–176 shows Promotion Type: The type of a promotion, like direct marketing by Phone call, direct marketing by mail, Media Broadcast by TV, and so on.

Table 3–176 Promotion Type

Sr. Number	Attribute	Description	Sample Value
1	PROMOTION TYPE CODE	A code used to uniquely identify a PROMOTION TYPE.	MAIL
2	PROMOTION TYPE DESC	A textual description of a PROMOTION TYPE.	Promotion by Mail
3	PROMOTION TYPE NAME	The name assigned to a PROMOTION TYPE.	Mail
4	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Table 3–177 shows Promotion Type: This entity keeps types of Campaigns. Examples include: a targeted promotion (to specific individuals, account or group of accounts, a mass market promotion (to a massive audience usually through radio, television, and newspaper.

Table 3–177 Promotion

Sr. Number	Attribute	Description	Sample Value
1	PROMOTION CODE	A unique identifier for a campaign cell.	PRMTN-1
2	PROMOTION DESC	A textual description for a campaign Cell.	PRMTN-1
3	PROMOTION NAME	Name of Promotion	PRMTN-1
4	ACTUAL RESPONSE COUNT	Actual RESPONSE COUNT.	
5	ACTUAL SALES AMOUNT	ACTUAL SALES AMOUNT.	
6	ACTUAL SALES AMOUNT LOCAL	ACTUAL SALES AMOUNT.	
7	ACTUAL SALES AMOUNT REPORTING	ACTUAL SALES AMOUNT.	
8	ACTUAL SALES COUNT	ACTUAL SALES COUNT.	
9	ACTUAL TOTAL COST	ACTUAL TOTAL COST.	
10	ACTUAL TOTAL COST LOCAL	ACTUAL TOTAL COST.	
11	ACTUAL TOTAL COST REPORTING	ACTUAL TOTAL COST.	
12	CAMPAIGN CHANNEL CODE	A unique identifier for a campaign channel.	

Table 3–177 (Cont.) Promotion

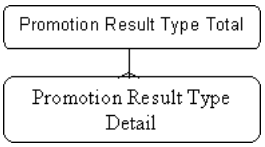
Sr. Number	Attribute	Description	Sample Value
13	CAMPAIGN CODE	The campaign which this cost occurs in	CMPGN-1
14	GLOBAL IND	Flag to indicate if the campaign is run globally.	
15	PARTICIPANT TARGET NUMBER	The number of target customers within a PROMOTION.	113
16	PARTNER NUMBER	Unique number assigned to the Partner	
17	PERSON RESPONSIBLE	Name of the employee who is responsible for the promotion	
18	PLANNED RESPONSE COUNT	Number of positive responses expected on the full promotion time.	
19	PLANNED SALES AMOUNT	Planned sales amount.	
20	PLANNED SALES AMOUNT LOCAL	Planned sales amount local.	
21	PLANNED SALES AMOUNT REPORTING	Planned sales amount reporting.	
22	PLANNED SALES COUNT	Planned sales count	
23	PLANNED TOTAL COST	Planned or budgeted total cost for the promotion.	$200.00
24	PLANNED TOTAL COST LOCAL	Planned or budgeted total cost for the promotion.	$200.00
25	PLANNED TOTAL COST REPORTING	Planned or budgeted total cost reporting for the promotion.	$200.00
26	PROMOTION END DATE	Promotion end date.	12/31/2005 12:00:00 AM
27	PROMOTION PURPOSE	Captures the purpose of the promotion.	
28	PROMOTION START DATE	PROMOTION START DATE.	12/31/2005 12:00:00 AM
29	PROMOTION TYPE CODE	A code used to uniquely identify a PROMOTION TYPE.	MAIL
30	TARGET TYPE CODE	A code used to uniquely identify a Categorization for each Target occurrence. Examples include: C = Customer A = Account AM = Access Method M = Market.	ACCS
31	THEME	Promotion theme	
32	VERSION NUMBER	Version Number of the campaign. A campaign can have many versions before it goes active	

Promotion Result Type

Description: PROMOTION RESULT TYPE

Promotion Result Hierarchies

Standard Promotion Result Type Hierarchy:



Promotion Result Type Levels

Table 3–178 shows Promotion Result Type Total: Top level for the dimension with one single value indicating value for all promotion result type.

Table 3–178 Promotion Result Type Total

Sr. Number	Attribute	Description
1.	PROMOTION RESULT TYPE TOTAL ID	Code for All Promotion Result Type

Table 3–179 shows Promotion Result Type Detail: Contain actual sales campaign result type values. Data for the sales campaign results will have these values. Like Offer accepted, Attribution prevented

Table 3–179 Promotion Result Type Detail

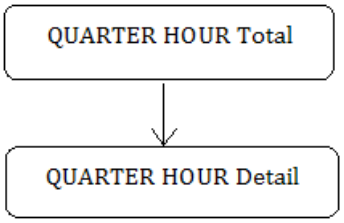
Sr. Number	Attribute	Description	Sample Value
1	PROMOTION RESULT CTGRY CODE	Code for Sales Campaign result category.	
2	PROMOTION RESULT CTGRY DESC	Code for Sales Campaign result category.	
3	PROMOTION RESULT CTGRY NAME	Description of the Sales Campaign result category.	
4	PROMOTION RESULT TYPE CODE	Name of the Sales Campaign result.	ATRPRVNT
5	PROMOTION RESULT TYPE DESC	Code for Sales Campaign Result.	Attribution Prevented
6	PROMOTION RESULT TYPE NAME	Description of the Sales Campaign result	Attribution Prevented
7	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Quarter Hour

Description: QUARTER HOUR

Quarter Hour Hierarchies

Standard QUARTER HOUR Hierarchy:



Quarter Hour Levels

The following table shows QUARTER HOUR Total: All QUARTER HOUR is most aggregate level of the dimension.

Table for QUARTER HOUR Total

Sr. Number	Attribute	Description
1	QUARTER HOUR Total	Code for All QUARTER HOUR Total.

Detail table shows QUARTER HOUR Detail: It captures information relating to Quarter Hour.

Detail table QUARTER HOUR Detail

Sr. Number	Attribute	Description

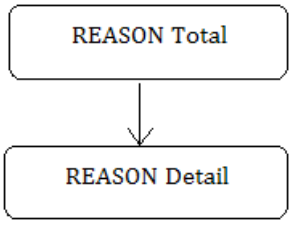
1	QUARTER HOUR DESC	Description of the time of the day, the quarter represents.
2	QUARTER HOUR NUMBER	Quarter Hour value in the 24 hour clock. It is made up of the hour warehouse key, followed by 1 - 4 depending on the quarter hour. For example: 051 represents 5th hour 1st quarter hour.
3	HALF HOUR CODE1	Unique warehouse key of the half hour on a 24 hour clock on a particular day.
4	QUARTER HOUR CODE	Unique warehouse key of the Quarter Hour in a 24-hour clock on a particular day

Reason

Description: REASON

Reason Hierarchies

Standard REASON Hierarchy:



Reason Levels

The following table shows REASON Total: All REASON is most aggregate level of the dimension.

Table for REASON Total

Sr. Number	Attribute	Description
1	REASON Total	Code for All Reason Total.

Detail table shows REASON Detail: It captures information relating to Reason.

Detail table REASON Detail

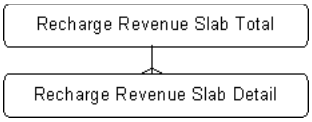
Sr. Number	Attribute
1	REASON CODE
2	REASON CATEGORY CODE
3	REASON NAME
4	LANGUAGE CODE
5	REASON DESC

Recharge Revenue Slab

Description: RECHARGE REVENUE SLAB

Recharge Revenue Slab Hierarchies

Standard recharge revenue slab Hierarchy:



Recharge Revenue Slab Levels

Table 3–180 shows Recharge Revenue Slab Total: Top level for the dimension with one single value indicating value for all slabs.

Table 3–180 Recharge Revenue Slab Total

Sr. Number	Attribute	Description
1.	RECHARGE REVENUE SLAB TOTAL ID	Code for All recharge revenue slabs

Table 3–181 shows Recharge Revenue Slab Detail: Most detail level holds values for individual recharge slabs.

Table 3–181 Recharge Revenue Slab Detail

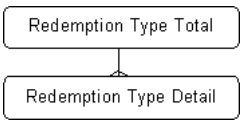
Sr. Number	Attribute	Description	Sample Value
1	RECHARGE REVENUE SLAB CODE	Recharge revenue slab ID or code.	RVN100
2	RECHARGE REVENUE SLAB DESC	Recharge revenue slab description.	Recharge revenue earned for $50-100
3	RECHARGE REVENUE SLAB NAME	Recharge revenue slab short description.	$50-100
4	SLAB RANGE END VALUE	End value of the slab.	
5	SLAB RANGE END VALUE LOCAL	End value of the slab.	
6	SLAB RANGE END VALUE REPORTING	End value of the slab.	
7	SLAB RANGE START VALUE	Starting value of the slab.	
8	SLAB RANGE START VALUE LOCAL	Starting value of the slab.	
9	SLAB RANGE START VALUE REPORTING	Starting value of the slab	
10	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Redemption Type

Description: `REDEMPTION TYPE`

Redemption Type Hierarchies

Standard Redemption Type Hierarchy:



Redemption Type Levels

Table 3–182 shows Redemption Type Total: Top level used to aggregate data for all the redemption types.

Table 3–182 Redemption Type Total

Sr. Number	Attribute	Description
1.	REDEMPTION TYPE TOTAL ID	Code for All redemption Types

Table 3–183 shows Redemption Type: Granular level of the dimension at which data is available, lists all the redemption types and its descriptions.

Table 3–183 Redemption Type

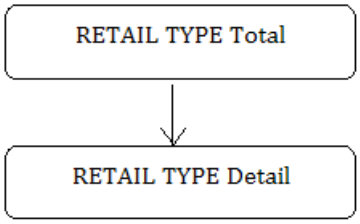
Sr. Number	Attribute	Description	Sample Value
1	REDEMPTION TYPE CODE	Code for Redemption Types.	ACCTDPST
2	REDEMPTION TYPE DESC	Redemption Type Description.	Account Deposit
3	REDEMPTION TYPE NAME	Redemption Type Short Name.	Account Deposit
4	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Retail Type

Description: `RETAIL TYPE`

Retail Type Hierarchies

Standard RETAIL TYPE Hierarchy:



Retail Type Levels

The following table shows RETAIL TYPE Total: All RETAIL TYPE is most aggregate level of the dimension.

Table for RETAIL TYPE Total

Sr. Number	Attribute	Description
1	RETAIL TYPE Total	Code for All Retail Type Total.

Detail table shows RETAIL TYPE Detail: It captures information relating to Retail Type.

Detail table RETAIL TYPE Detail

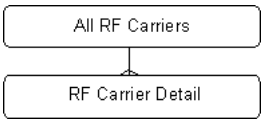
Sr. Number	Attribute
1	RETAIL TYPE DESC
2	RETAIL TYPE CODE
3	LANGUAGE CODE
4	RETAIL TYPE NAME

RF Carrier

Description: RF CARRIER

RF Carrier Hierarchies

Standard RF Carrier Hierarchy:



RF Carrier Levels

Table 3–184 shows RF Carrier Total: Values for all carriers. Data may or may not be seen at this level.

Table 3–184 RF Carrier Total

Sr. Number	Attribute	Description
1.	CARRIER TOTAL ID	Code for All Carriers

Table 3–185 shows RF Carrier Detail: The detail level of the dimension at which the data will be captured and stored.

Table 3–185 RF Carrier Detail

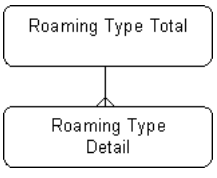
Sr. Number	Attribute	Description	Sample Value
1	RF CARRIER CODE	Carrier code or ID.	
2	RF CARRIER DESC	Carrier description.	
3	RF CARRIER NAME	Carrier Name.	
4	STATUS CODE	Current Status Identifier	
5	BASE TRANSCEIVER STATION CODE	Identifier for Transceiver Station	
6	EFFECTIVE FROM DATE	In Effect From	12/31/2005 12:00:00 AM
7	EFFECTIVE TO DATE	In Effect until date	12/31/2005 12:00:00 AM

Roaming Type

Description: ROAMING TYPE

Roaming Type Hierarchies

Standard Roaming Type Hierarchy:



Roaming Type Levels

Table 3–186 shows Roaming Type Total: The Subscriber type defines if the calls made/received are by the Roaming subscriber or by a non-roaming subscriber. Roaming type is further classified as Inbound and outbound roaming subscriber

Table 3–186 Roaming Type Total

Sr. Number	Attribute	Description
1.	ROAMING TYPE TOTAL CODE	Code for All Roaming Types

Table 3–187 shows Roaming Type: If the calls made/received are by the Roaming subscriber or by a non-roaming subscriber.

Table 3–187 Roaming Type Detail

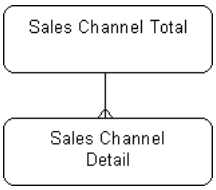
Sr. Number	Attribute	Description	Sample Value
1	ROAMING TYPE CODE	ROAMING TYPE CODE.	NONROAM
2	ROAMING TYPE DESC	ROAMING TYPE DESC.	Non-Roaming
3	ROAMING TYPE NAME	Short description of the ROAMING TYPE.	Non-Roaming
4	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Sales Channel

Description: SALES CHANNEL

Sales Channel Hierarchy

Standard Sales Channel Hierarchy:



Sales Channel Levels

Table 3–188 shows Sales Channel Total: The most aggregate level in the channel dimension. It combines the results of all channels and shows the total values for facts if selected in the report.

Table 3–188 Sales Channel Total

Sr. Number	Attribute	Description
1.	SALES CHANNEL TOTAL ID	Code for All Sales channels value

Table 3–189 shows Sales Channel Detail: Sales channel is not multi tiered. Mainly there are three channels of sales such as Sales Representatives, Outlets and dealers. Which are represented by the channel level, which also becomes the lowest level for the channel dimension.

Table 3–189 Sales Channel Detail

Sr. Number	Attribute	Description	Sample Value
2	SALES CHANNEL CODE	Code for Sales Channel	
3	CHANNEL DESC	A text description for the channel	
4	CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	

Table 3–189 (Cont.) Sales Channel Detail

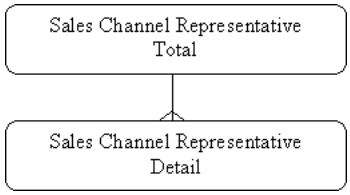
Sr. Number	Attribute	Description	Sample Value
5	CHANNEL NAME	Short name for the channel	A01
6	CHANNEL TYPE CODE	Unique identifier for channel	SLCHNL
7	CAPACITY QUANTITY	The number of transaction that a Channel can handle, at a point of time.	
8	DEALER CODE	The number of transaction that a Channel can handle, at a point of time.	
9	EFFECTIVE FROM DATE	The first date of the period when this Channel was valid.	12/31/2005 12:00:00 AM
10	EFFECTIVE TO DATE	The end date of the period when this Channel was valid.	12/31/2005 12:00:00 AM
11	PARTY CODE	A code for any person or business that is of interest to the Communications Service Provider.	
12	PARTY TYPE CODE	Code for party types	RPRSTTV
13	STATUS CODE	Current status	A

Sales Channel Representative

Description: SALES CHANNEL REPRESENTATIVE

Sales Channel Hierarchies

Standard Sales Channel Representative Hierarchy:



Sales Channel Representative Levels

Table 3–190 shows Sales Channel Representative Total: The most aggregate level in the channel dimension.

Table 3–190 Sales Channel Representative Total

Sr. Number	Attribute	Description
1.	SALES CHANNEL REPRESENTATIVE TOTAL ID	Code for All Sales Channel Representative

Table 3–191 shows Sales Channel Representative: This is the most granular level of the channel dimension. Values in this level represent the codes for sales representatives in the shops, Direct sales representatives and Sub-dealers in case of dealers.

Table 3–191 Sales Channel Representative

Sr. Number	Attribute	Description	Sample Value
1	SALES CHANNEL CODE	The unique identifier for each Channel. A Channel identifies each possible link where interaction between the Communications Service Provider and the Customer occurs.	
2	SALES CHANNEL REPRESENTATIVE CODE	SALES CHANNEL REPRESENTATIVE CODE is used to track and detect sales performance on account payment status.	SLREP-1
1	BILLING ADDRESS EFFECTIVE DATE	Date on which the billing address referenced in the billing_address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months.""	
2	BUSINESS DIVISION EXECUTIVE NAME	BUSINESS DIVISION EXECUTIVE LAST NAME is the last name of the business division executive to whom the employee reports to. Like LOB Owner.	
3	BUSINESS PHONE NUMBER	Phone number used for business purpose	
4	CELL PHONE NO	Redundancy to 'party contact information'	
5	CHILDREN COUNT	Number of children	
6	CONTACT ADDRESS EFFECTIVE DATE	Date on which the contact address referenced in the billing_address_id column became active. This facilitates queries such as find customers who changed address in the last 3 months.""	
7	COST CENTER NUMBER	The cost center to which the bank employee expenses are charged.	
8	DATE OF BIRTH	Date of Birth of the individual.	
9	DATE OF DEATH	Date of natural person death.	
10	DEATH CERTIFICATE CODE	The certification document number for customer's death.	
11	DEPENDENTS COUNT	Number of dependents	
12	DRIVER LICENSE NUMBER	Driver License Number in most countries.	
13	DWELLING SIZE	Size of dwelling	
14	DWELLING TENURE	Tenure of dwelling	
15	ECONOMICALLY ACTIVE IND	customer is economically active (is not a minor or pensioner and so on.)	
16	EDUCATION CODE	The customer highest level of education.	
17	EMAIL	Redundancy to 'party contact information'	
18	EMPLOYEE CODE	A code for any person or business that is of interest to the Communications Service Provider.	
19	EMPLOYEE DESIGNATION CODE	Unique warehouse key, representing the designation	
20	EMPLOYEE DISCOUNT GROUP CODE	Unique identifier for Employee Discount Group	
21	EMPLOYEE KEY	Key value for each employee	
22	EMPLOYEE NUMBER	Internal number for the employee.	
23	EMPLOYEE TYPE CODE	Unique identifier for Employee Type	PT
24	EMPLOYEE TYPE DESC	Description of the Employee Type	Part Time
25	EMPLOYEE TYPE NAME	Unique identifier for the Employee Type	Part Time
26	EMPLOYER TAX NUMBER	The tax code of Employer.	
27	EMPLOYMENT BEGIN DATE	Start date for the employment.	12/31/2005 12:00:00 AM

Table 3–191 (Cont.) Sales Channel Representative

Sr. Number	Attribute	Description	Sample Value
28	EMPLOYMENT END DATE	If the employee quit, hold the information of past employment.	
29	EMPLOYMENT EXEMPT IND	An employee exempt from the overtime policies due to the nature of the work, as compared to (Non-Exempt). Education requirements of the position and salary range. These employees are paid an annual salary and are not customarily eligible for overtime pay.	
30	EMPLOYMENT STATUS	EMPLOYEE STATUS is the abbreviated identifier for the employment status. Employee	
31	END OF JOB CONTRACT	End date of the customer's job contract (for contracts concluded for definite terms).	
32	ETHNIC BACKGROUND	Customer Attribute of an employee	
33	ETHNICITY	Classifies the individual for minority reporting purposes.	
34	FAMILY NAME IN MAIDEN	Given name in maiden	
35	FIRST NAME	First name of a party individual	
36	FORM OF EMPLOYMENT	The customer's form of employment (private entrepreneur, employee, civil servant and so on.)	
37	GENDER CODE	For PARTYs that are people, this is their GENDER. For PARTYs that are organizations, this is indicates whether the organization is foreign or domestically owned.	
38	GIVEN NAME IN MAIDEN	Given name in maiden	
39	HOME TELEPHONE NO	Redundance to 'party contact information'	
40	HOUSEHOLD KEY	The code of household which the party belongs to.	
41	INCOME	Income of a party individual	
42	INCOME LCL	Income of a party individual	
43	INCOME RPT	Income of a party individual	
44	JOB CONTRACT TYPE	Type of the customer's job contract	
45	JOB KEY	Code for job of subscriber.	
46	JOB POSITION	job Position.	
47	LANGUAGE CODE	Unique identifier for Language	
48	LAST NAME	Last name of a party individual	
49	LAST PERFORMANCE RATING	This describes the annual rating assigned to the employee.	
50	LAST PERFORMANCE RATING DATE	When the last rating is done.	
51	LEGAL TITLE TO HOUSING	The customer's legal title to home (rents, owns and so on.)	
52	LIVING AT CURRENT ADDRESS SINCE	Date since the customer has lived at the present address.	
53	MANAGER CODE	manager's employee code.	
54	MARITAL STATUS	CSALADI ALLAPOT. Marital status	
55	MARTIAL STATUS CODE		
56	MIDDLE NAME	Middle name of a party individual	
57	MOTHER FIRST NAME	Mother's first name	
58	MOTHER LAST NAME	Mother's last name	

Table 3–191 (Cont.) Sales Channel Representative

Sr. Number	Attribute	Description	Sample Value
59	NAME OF WORKPLACE	Name of workplace	
60	NAME PREFIX	Name prefix For example: Mr, Mrs, Ms, Dr,	
61	NAME SUFFIX	Name suffix. For example: PhD, MD, JD, MA	
62	NATIONALITY CODE	Code for Nationality of subscriber	
63	NUMBER OF EARNERS IN HOUSEHOLD	Number of wage earners in the household.	
64	NUMBER OF PERSONS LIVING IN HOUSEHOLD	Number of persons sharing the customer's household.	
65	OFFICE TELEPHONE NO	Redundancy to 'party contact information'	
66	ORGANIZATION BUSINESS UNIT KEY		
67	PERSONAL ID NUMBER	In China, this one will be same as party.national_ identifier.	
68	PLACE OF BIRTH	Where the person was born.	
69	PREVIOUS EMPLOYER TAX NUMBER	Tax number of previous employer.	
70	PREVIOUS EMPLOYMENT END DATE	End date of previous job.	
71	PREVIOUS EMPLOYMENT START DATE	Start date of previous job.	12/31/2005 12:00:00 AM
72	SOC JOB KEY		
73	SOCIAL SECURITY NUMBER	In US, this code will be same as party.national_ identifier. Null if some country does not have.	
74	SOURCE OF INCOME	Source of income (can typify, may be several)	
75	START OF EMPLOYMENT	Start of employment	
76	TAX NUMBER	Tax number	
77	ACTIVE IND	Activate Indicator	
78	ADDRESS	Address	
79	BARING REASON CODE	Unique identifier for Baring Reason	
80	BUSINESS LEGAL STATUS CODE	A unique identifier for a legal classification of a non-residential Customer.	
81	CITY	City of the party. Redundance to party location history.	
82	COUNTRY	Country of the party. Redundance to party location history.	
83	CUSTOMER IND	Indicator for Customer	
84	EFFECTIVE FROM DATE	EFFECTIVE FROM DATE, standard SCD2 column.	
85	EFFECTIVE TO DATE	EFFECTIVE TO DATE, standard SCD2 column.	
86	EMPLOYEE NAME	Name of the employee	
87	PARTY DESC	Description for the Party	
88	PARTY KEY	Key value for Party	
89	PARTY NAME	Name of the Party	
90	PARTY TYPE CODE	Unique identifier for Party Type	
91	POST CODE	Unique identifier for Post	

Table 3–191 (Cont.) Sales Channel Representative

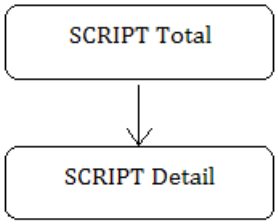
Sr. Number	Attribute	Description	Sample Value
92	SOURCE SYSTEM KEY	Key value for Source System	
93	STATE	State Name	
94	STATUS CODE	Current Status	

Script

Description: SCRIPT

Script Hierarchies

Standard SCRIPT Hierarchy:



Script Levels

The following table shows SCRIPT Total: All SCRIPT is most aggregate level of the dimension.

Table for SCRIPT Total

Sr. Number	Attribute	Description
1	SCRIPT Total	Code for All Script Total.

Detail table shows SCRIPT Detail: It captures information relating to SCRIPT.

Detail table SCRIPT Detail

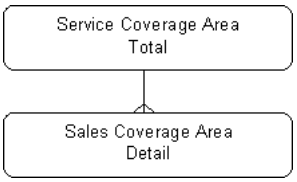
Sr. Number	Attribute	Description
1	SCRIPT DESC	A brief description for a script.
2	SCRIPT NAME	A name assigned to a Script.
3	SCRIPT CODE	Unique identifier for a script.

Service Coverage Area

Description: SERVICE COVERAGE AREA

Service Coverage Hierarchies

Standard Service Coverage Hierarchy:



Service Coverage Area Levels

Table 3–192 shows Service Coverage Area Total: Service areas are defined so that service providers can determine the demographic / psychographic / population data the geography served by the network.

Table 3–192 Service Coverage Area Total

Sr. Number	Attribute	Description
1.	SALES CHANNEL REPRESENTATIVE TOTAL ID	Code for All Sales Coverage Area values

Table 3–193 shows Service Coverage Area: This is the detail level of Service Coverage Area.

Table 3–193 Service Coverage Area

Sr. Number	Attribute	Description
1	AREA SHAPE	Shape of the trade area
2	AREA TYPE	- Urban - Suburban - Exurban - Rural
3	AVERAGE DRIVE TIME	Average drive time from the coverage area to the given store or site.
4	AVERAGE FAMILY SIZE	Average Family Size = Total population divided by number of families
5	AVERAGE HOUSEHOLD SIZE	Average household size in the coverage area.
6	AVERAGE NUMBER VEHICLES PER HOUSEHOLD	Average Number of Vehicles by household = total number of vehicles divided by total number of household.
7	CITY	City. City of the trade area
8	COMMUNITY SEGMENTS	The segmentation system was created to group neighborhoods based on socioeconomic and demographic composition such as age, income, home value, occupation, household type, education, and so on. They help improve the ability to predict behavior of social groups that are geographically clustered.
9	COMMUTER POPULATION	Total commuter population of the coverage area.
10	COUNTRY	Country. Country of the trade area
11	COUNTY	County / District. County / District of the trade area
12	DEFINITION SOURCE	The source of the definition
13	DEFINITION TYPE	Definition type of the market area, some standard classifications can include: Study traffic flow, Use a retail gravity model, Use a zip code method and so on. Some standard classifications can include: Study traffic flow, Use a retail gravity model, Use a zip code method and so on.
14	ISO CURRENCY CODE	Currency used for the demographic information
15	LATITUDE	The latitude measure for the trade area
16	LONGITUDE	The longitude measure for the trade area
17	NUMBER OF HOUSEHOLDS	Approximate total number of households in the coverage area.
18	ORGANIZATION BUSINESS UNIT CODE	Unique identifier for Business Unit. To identify whether the site is a store, distribution center or warehouse.

Table 3–193 (Cont.) Service Coverage Area

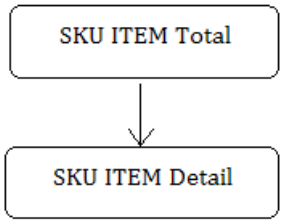
Sr. Number	Attribute	Description
19	PEAK SEASON POPULATION	The peak trading season of a given area can be determined by the seasonality or yearly economic cycle and so on. This is mostly applicable for renowned tourist spots.
20	PER CAPITA INCOME	Per Capita Income = income of that area divided by total population
21	PER CAPITA INCOME LOCAL	Per Capita Income = income of that area divided by total population
22	PER CAPITA INCOME REPORTING	Per Capita Income = income of that area divided by total population
23	PRIMARY ZIP CODE	Primary zip code of the market area. The primary zip code or the pin code of the Trade area
24	PRODUCT CODE	The short name for the product.
25	PULL FACTOR	Ratios that estimate the proportion of local sales that occurs in a town. Ratio that estimate the proportion of local sales that occurs in a town.
26	SECONDARY ZIP CODE	Secondary zip code in case the zip code spans across multiple zip codes. Applicable only in case the zip code spans across multiple zip codes
27	SERVICE COVERAGE AREA CODE	COVERAGE AREA CODE. Unique identifier for the coverage area
28	SERVICE COVERAGE AREA TYPE CODE	
29	STATE	State or province. State or province of the trade area
30	STATE POPULATION	Approximate population of the state.
31	STATE SALES	Estimated total retail sales in the state.
32	TOTAL POPULATION	Estimated total population of the market area
33	TOURIST POPULATION	Expected tourist population of the Trade coverage area.
34	TRADE AREA CAPTURE	An estimate of the number of people who shop in the local area during a certain period.
35	TRADE AREA CODE	Market Area identifier.
36	TRADE AREA DESC	Trade area description. Textual description of the trade area
37	TRADE AREA NAME	Market area name. The name of the trade area

SKU Item

Description: SKU ITEM

SKU Item Hierarchies

Standard SKU ITEM Hierarchy:



SKU Item Levels

The following table shows SKU ITEM Total: All SKU ITEM is most aggregate level of the dimension.

Table for SKU ITEM Total

Sr. Number	Attribute	Description
1	SKU ITEM Total	Code for All SKU Item Total.

Detail table shows SKU ITEM Detail: It captures information relating to SKU Item Detail.

Detail table SKU ITEM Detail

Sr. Number	Attribute
1	TAX EXMPTN CODE
2	SHRINK INDICATOR
3	SILHOUETTE DSCR
4	SRVC ITEM DSCR
5	SRVC TERMS CODE
6	STAT CODE
7	SIZE TYPE CODE
8	SKU ITEM CODE
9	SKU ITEM CONSTRUCTION CODE
10	SKU ITEM DSCR
11	SKU ITEM INDICATORSTRY IDNT CODE
12	SKU ITEM LNG DSCR
13	SKU ITEM NAME
14	SKU ITEM NUMBER
15	SKU ITEM SALENG PRICE NUMBER
16	SKU TYPE CODE
17	SECURITY REQUIRED TYPE CODE
18	UOM CODE
19	VRTY NUMBER1
20	VRTY NUMBER2
21	VRTY NUMBER3
22	W ID
23	VNDR CODE
24	UNIT PRICE FCTR
25	NET COST AMOUNT REPORT
26	NET COST AMOUNT REPORT2
27	NET COST AMOUNT REPORT3

28	LAST UPDATE BY
29	LAST UPDATE DATE
30	LOAD DATE
31	PACK INDICATOR
32	PACK ORDERABLE CODE
33	PACK ORDERABLE DSCR
34	PACK SALEBL CODE
35	PACK SALEBL DSCR
36	PACK SIMPLE CODE
37	PACK SIMPLE DSCR
38	PACKAGE SIZE
39	ORGANIZATION CODE
40	ORGANIZATION TYPE CODE
41	PRICE LN CODE
42	PREPARED DSCR
43	PROD ENT CODE
44	PROD LN CODE
45	PRD COUNT
46	PKG UOM
47	PRD TYPE CODE
48	PENALITY AMOUNT
49	PENALITY AMOUNT LOCAL
50	PENALITY AMOUNT REPORT
51	PENALITY AMOUNT REPORT2
52	PENALITY AMOUNT REPORT3
53	PENALITY METHOD CODE
54	PENALITY PCTG
55	POS DEPT CODE
56	SALE UNIT LANDED COST AMOUNT
57	SALE UNIT LANDED COST AMOUNT LOCAL
58	SALE UNIT LANDED COST AMOUNT REPORT
59	SALE UNIT LANDED COST AMOUNT REPORT2
60	SALE UNIT LANDED COST AMOUNT REPORT3
61	SALE UT LAST RECEIVED BS CST AMOUNT
62	SALE UT LAST RECEIVED BS CST AMOUNT LOCAL
63	SALE UT LAST RECEIVED BS CST AMOUNT REPORT
64	SALE UT LAST RECEIVED BS CST AMOUNT REPORT2
65	SALE UT LAST RECEIVED BS CST AMOUNT REPORT3
66	SALE UT LAST RECEIVED CST ESTBD DATE

67	SALE UT LAST RECEIVED NT CST AMOUNT
68	SALE UT LAST RECEIVED NT CST AMOUNT LOCAL
69	SALE UT LAST RECEIVED NT CST AMOUNT REPORT
70	SALE UT LAST RECEIVED NT CST AMOUNT REPORT2
71	SALE UT LAST RECEIVED NT CST AMOUNT REPORT3
72	SALE WT OR UNIT COUNT INDICATOR
73	RECALL INDICATOR
74	RECIPE CODE
75	REF DNSTY
76	STOCK DSCR
77	STOCK ITEM COATING CODE
78	STOCK ITEM COLOR CODE
79	STOCK ITEM DYE CODE
80	STOCK ITEM FABRIC CODE
81	STOCK ITEM FIBER CODE
82	STOCK ITEM SIZE CODE
83	STOCK ITEM STYLE CODE
84	STOCK ITEM TYPE CODE
85	STOCK ITEM WEAVE CODE
86	STOCK ITEM WT CODE
87	SWELL INDICATOR
88	AGGR TYPE
89	ALERT TRANSACTION INDICATOR
90	AVLBL FOR SALE DATE
91	Attribute_58
92	BASE COST AMOUNT
93	BASE COST AMOUNT LOCAL
94	BASE COST AMOUNT REPORT
95	BASE COST AMOUNT REPORT2
96	BASE COST AMOUNT REPORT3
97	CONSTRCTN CODE
98	BLK TO SALENG UNIT WST FCTR PCTG
99	BLK TO SALENG UNIT WST TYPE CODE
100	BULK ITEM TARE CODE
101	COST ESTBD DATE
102	CURRENT INDICATOR
103	COVER COUNT
104	CUST PAYS FOR DSPSTN INDICATOR
105	CUSTOMER PICKUP TYPE CODE

106	CONVBL TYPE CODE
107	DEPOSIT AMOUNT
108	DEPOSIT AMOUNT LOCAL
109	DEPOSIT AMOUNT REPORT
110	DEPOSIT AMOUNT REPORT2
111	DEPOSIT AMOUNT REPORT3
112	DEPOSIT PCTG
113	DEPOSIT RULE CODE
114	EFFECT TO DATE
115	EFFECT FROM DATE
116	FABRIC DSCR
117	ENV TYPE CODE
118	FINANCIAL LEDGER ACCOUNT CODE
119	GROUP SELECT DSCR
120	HAZARDS MATERIAL TYPE CODE
121	HOLDING TIME
122	GLBL ITEM NUMBER
123	ITEM ORDR COLLCTN CODE
124	ITEM POS DEPT NUMBER
125	ITEM PRICE AUDIT INDICATOR
126	ITEM PRSHBL INDICATOR
127	ITEM RECIPE INDICATOR
128	ITEM SALE WT OR UNIT COUNT CODE
129	ITEM SALEABLE INDICATOR
130	ITEM SALENG RULE NUMBER
131	ITEM SHRNK INDICATOR
132	ITEM SPEC CODE
133	ITEM AUTHORIZED FOR SALE INDICATOR
134	ITEM DISC INDICATOR
135	ITEM ENV TYPE CODE
136	ITEM FULL PALLET ITEM INDICATOR
137	ITEM STORE REORDRBL INDICATOR
138	ITEM STP SALE INDICATOR
139	ITEM SUB IDNT INDICATOR
140	ITEM SWELL INDICATOR
141	ITEM USG CODE
142	ITEM CMISN INDICATOR
143	ITEM INVOICE INDICATOR
144	ITEM KIT SET CODE

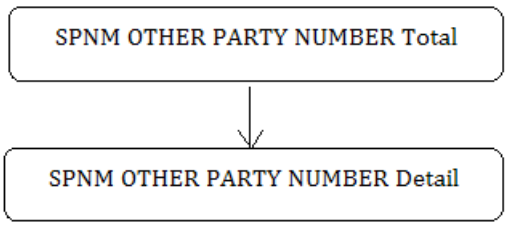
145	ITEM MRCHNDS INDICATOR
146	ITEM NUMBER
147	INVOICE ACCOUNT METHOD CODE
148	NET COST AMOUNT
149	NET COST AMOUNT LOCAL

SPNM Other Party Number

Description: SPNM OTHER PARTY NUMBER

SPNM Other Party Number Hierarchies

Standard SPNM OTHER PARTY NUMBER Hierarchy:



SPNM Other Party Number Levels

The following table shows SPNM OTHER PARTY NUMBER Total: All SPNM OTHER PARTY NUMBER is most aggregate level of the dimension.

Table for SPNM OTHER PARTY NUMBER Total

Sr. Number	Attribute	Description
1	SPNM OTHER PARTY NUMBER Total	Code for All SPNM OTHER PARTY NUMBER Total.

Detail table shows SPNM OTHER PARTY NUMBER Detail: It captures information relating to SPNM OTHER PARTY NUMBER.

Detail table SPNM OTHER PARTY NUMBER Detail

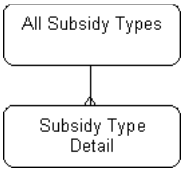
Sr. Number	Attribute
1	STATUS CODE
2	SPNM CODE
3	SPNM GROUP CODE
4	EFFECTIVE TO DATE
5	OTHER PARTY NUMBER
6	EFFECTIVE FROM DATE
7	SPNM KEY

Subsidy Type

Description: SUBSIDY TYPE

Subsidy Type Hierarchies

Standard Subsidy Type Hierarchy:



Subsidy Type Levels

Table 3–194 shows Subsidy Type Total: Most aggregate level for the Subsidy Type dimension to see the aggregated value of all the subsidy types.

Table 3–194 Subsidy Type Total

Sr. Number	Attribute	Description
1.	SUBSIDY TYPE TOTAL CODE	Code for All Subsidy Types

Table 3–195 shows Subsidy Type Detail: This level stores the actual values for subsidy types and enables analysis of related facts by subsidy types. This is the most granular level of the dimension data will be captured and stored at this level.

Table 3–195 Subsidy Type Detail

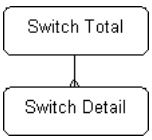
Sr. Number	Attribute	Description	Sample Value
1	SUBSIDY TYPE CODE	Code for Subsidy type	ACCTDPST
2	SUBSIDY TYPE DESC	Description of the Subsidy Type	Account Deposit
3	SUBSIDY TYPE NAME	Name of the Subsidy type	Account Deposit
4	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Switch

Description: `SWITCH`

Switch Hierarchies

Standard Switch Hierarchy:



Switch Levels

Table 3–196 shows Switch Total: Network switches or exchanges. It may a position switch (digital or analog), or GSM MSC.

Table 3–196 Switch Total

Sr. Number	Attribute	Description
1.	SWITCH TOTAL CODE	Code for Switches

Table 3–197 shows Switch Detail: Network switches or exchanges. It may a position switch (digital or analog), or GSM MSC.

Table 3–197 Switch Detail

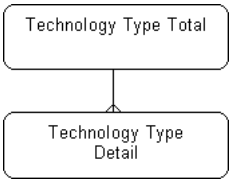
Sr. Number	Attribute	Description	Sample Value
1	SWITCH CODE	A unique identifier for a telecommunications device used to route telephone calls and communication transmissions.	ANALOG
2	SWITCH TYPE CODE	A code used to categorize a switch.	
4	TECHNOLOGY CODE	A code that uniquely identifies a technology.	
7	EFFECTIVE FROM DATE	Effective from date when valid	12/31/2005 12:00:00 AM
8	EFFECTIVE TO DATE	Effective to date when valid	12/31/2005 12:00:00 AM
9	EQUIPMENT CENTER CODE	The equipment center, where this equipment locates in.	
10	EXTERNAL OUTBOUND INDICATOR	Indicate if the switch belongs to external operator, then the circuit.	
11	NETWORK ELEMENT DESC	A text description for the Network	
12	NETWORK ELEMENT CODE	Identifier of the network.	
13	NETWORK ELEMENT NAME	Short name of the network.	
14	NETWORK CODE	Code for the network.	
	STATUS CODE		

Technology Type

Description: TECHNOLOGY TYPE

Technology Type Hierarchies

Standard Technology Type Hierarchy:



Technology Type Levels

Table 3–198 shows Technology Type Total: Categories for a Technology. For example, wireless, copper line, Optical Fiber.

Table 3–198 Technology Type Total

Sr. Number	Attribute	Description
1.	ALL TECHNOLOGY CODE	Code for all technologies.

Table 3–199 shows Technology Types: Detail level of each technology type. Categories for Technology, for example, wireless, copper line, Optical Fiber

Table 3–199 Technology Types

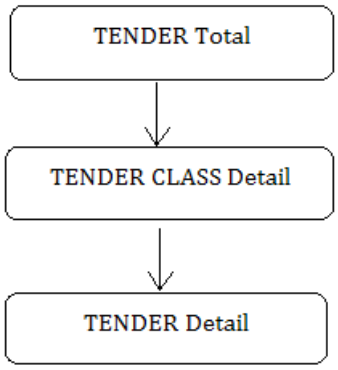
Sr. Number	Attribute	Description	Sample Value
1	TECHNOLOGY TYPE CODE	A code that uniquely identifies technology type.	CL
2	TECHNOLOGY TYPE DESC	A textual description that describes a technology type.	Copper Line
3	TECHNOLOGY TYPE NAME	A name assigned to a technology type.	Copper Line
4	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Tender

Description: TENDER

Tender Hierarchies

Standard TENDER Hierarchy:



Tender Levels

The following table shows TENDER Total: All TENDER is most aggregate level of the dimension.

Table for TENDER Total

Sr. Number	Attribute	Description
1	TENDER Total	Code for All Tender Total.

Detail table shows TENDER CLASS Detail: It captures information relating to Tender Class.

Detail table TENDER CLASS Detail

Sr. Number	Attribute
1	TENDER CLASS CODE
2	LANGUAGE CODE
3	TENDER CLASS NAME
4	TENDER CLASS DESC

Detail table shows TENDER Detail: It captures information relating to Tender.

Detail Table TENDER Detail

Sr. Number	Attribute
1	OFFLINE TENDER CEILING APRVL AMOUNT REPORT2
2	OFFLINE TENDER CEILING APRVL AMOUNT REPORT3
3	OFFLINE TENDER FLOOR APPROVAL AMOUNT
4	OFFLINE TENDER FLOOR APPROVAL AMOUNT LOCAL
5	OFFLINE TENDER FLOOR APPROVAL AMOUNT REPORT
6	OFFLINE TENDER FLOOR APPROVAL AMOUNT REPORT2
7	OFFLINE TENDER FLOOR APPROVAL AMOUNT REPORT3
8	REALTIME BALANCE UPDT INDICATOR
9	PRSNL ID NBR REQUIRED INDICATOR
10	TENDER CLASS CODE
11	TENDER CODE
12	TENDER CODE _1
13	STATUS CODE
14	SRL ID NBR REQUIRED INDICATOR
15	W ID
16	UNIT COUNT REQUIRED INDICATOR
17	ACCEPT FOR PAY ON ACCOUNT INDICATOR
18	ACCOUNT ID REQUIRED INDICATOR
19	ACCOUNT REC INDICATOR
20	AMOUNT COUNT REQUIRED INDICATOR
21	AUTHORIZATION EXP DT REQUIRED INDICATOR
22	AUTHORIZATION MAXIMUM WAIT ALWD SEC COUNT
23	AUTHORIZATION MTHD CODE
24	AUTHORIZATION REQUIRED INDICATOR
25	CHANGE THRESHOLD AMOUNT
26	CHANGE THRESHOLD AMOUNT LOCAL
27	CHANGE THRESHOLD AMOUNT REPORT
28	CHANGE THRESHOLD AMOUNT REPORT2
29	CHANGE THRESHOLD AMOUNT REPORT3
30	CHK ENCODENG INDICATOR
31	CURRENT INDICATOR
32	CUST ID REQUIRED INDICATOR
33	CUST SIGN REQUIRED INDICATOR
34	EFFECT TO DATE
35	DSCR
36	EFFECT FROM DATE

37	FINCL LDGR ACCOUNT CODE
38	ENDORSEMENT REQUIRED INDICATOR
39	GFT CARD EXPRY INDICATOR
40	GFT CARD FIXED INDICATOR
41	ITEM RESTRICTED APPLY INDICATOR
42	MAGNET STRIP RDR REQUIRED INDICATOR
43	MICR INDICATOR
44	MINIMUM ACCEPT AMOUNT
45	MINIMUM ACCEPT AMOUNT LOCAL
46	MINIMUM ACCEPT AMOUNT REPORT
47	MINIMUM ACCEPT AMOUNT REPORT2
48	MINIMUM ACCEPT AMOUNT REPORT3
49	MAXIMUM ACCEPT AMOUNT
50	MAXIMUM ACCEPT AMOUNT LOCAL
51	MAXIMUM ACCEPT AMOUNT REPORT
52	MAXIMUM ACCEPT AMOUNT REPORT2
53	MAXIMUM ACCEPT AMOUNT REPORT3
54	MAXIMUM ACCEPT DENMTN
55	LAST UPDATE BY
56	LOAN PERMISSIBILITY INDICATOR
57	LAST UPDATE DATE
58	LOCAL CURRENCY AVAILABILITY INDICATOR
59	LOAD DATE
60	LOCAL ISO CURRENCY CODE
61	OVERRIDE TRIGGER MAXIMUM AMOUNT
62	OVERRIDE TRIGGER MAXIMUM AMOUNT LOCAL
63	OVERRIDE TRIGGER MAXIMUM AMOUNT REPORT
64	OVERRIDE TRIGGER MAXIMUM AMOUNT REPORT2
65	OVERRIDE TRIGGER MAXIMUM AMOUNT REPORT3
66	ONLINE TENDER CEILING APPROVAL AMOUNT
67	ONLINE TENDER CEILING APPROVAL AMOUNT LOCAL
68	ONLINE TENDER CEILING APPROVAL AMOUNT REPORT
69	ONLINE TENDER CEILING APPROVAL AMOUNT REPORT2
70	ONLINE TENDER CEILING APPROVAL AMOUNT REPORT3
71	ONLINE TENDER FLOOR APPROVAL AMOUNT
72	ONLINE TENDER FLOOR APPROVAL AMOUNT LOCAL
73	ONLINE TENDER FLOOR APPROVAL AMOUNT REPORT
74	ONLINE TENDER FLOOR APPROVAL AMOUNT REPORT2
75	ONLINE TENDER FLOOR APPROVAL AMOUNT REPORT3

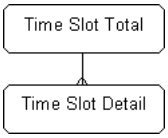
76	OPEN CASH DRAWER REQUIRED INDICATOR
77	OFFLINE TENDER CEILING APPROVAL AMOUNT
78	OFFLINE TENDER CEILING APPROVAL AMOUNT LOCAL
79	OFFLINE TENDER CEILING APRVL AMOUNT REPORT

Time Slot

Description: TIME SLOT

Time Slot Hierarchies

Standard Time Slot Hierarchy:



Time Slot Levels

Table 3–200 shows Time Slot Total: Level to be used for summary analysis for all time slots. Most aggregate level of the dimension.

Table 3–200 Time Slot Total

Sr. Number	Attribute	Description
1.	TIME SLOT TOTAL ID	Key/code for grouping all the time hour slots of the day.

Table 3–201 shows Time Slot Detail: Most detail level of the dimension at which data will be captured in the facts. Values will be used for detail analysis.

Table 3–201 Time Slot Detail

Sr. Number	Attribute	Description	Sample Value
1	HALF HOUR CODE	Retrofitted from column HALF_HOUR_ CODE of table TIME_SLOT_DIM	
2	HALF HOUR NAME	Retrofitted from column HALF_HOUR_ NAME of table TIME_SLOT_DIM	01:00 - 01:29 AM
3	HALF HOUR NUMBER	Retrofitted from column HLF_HOUR_ NUMBER of table TIME_SLOT_DIM	
4	HALF HOUR TIME OF DAY	Retrofitted from column HLF_HOUR_TIME_ OF_DAY of table TIME_SLOT_DIM	5/15/2008 1:00:00 AM
5	HOUR CODE	Retrofitted from column HOUR_CODE of table TIME_SLOT_DIM	
6	HOUR NAME	Retrofitted from column HOUR_NAME of table TIME_SLOT_DIM	01:00 - 01:29 AM
7	HOUR NUMBER	Retrofitted from column HOUR_NUMBER of table TIME_SLOT_DIM	1
8	HOUR TIME OF DAY	Retrofitted from column HOUR_TIME_OF_ DAY of table TIME_SLOT_DIM	5/5/2008 1:00:00 AM
9	QTR HOUR CODE	Retrofitted from column QTR_HOUR_CODE of table TIME_SLOT_DIM	
10	QTR HOUR NAME	Retrofitted from column QTR_HOUR_ NAME of table TIME_SLOT_DIM	

Table 3–201 (Cont.) Time Slot Detail

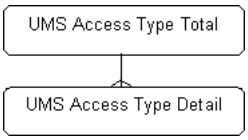
Sr. Number	Attribute	Description	Sample Value
11	QTR HOUR NUMBER	Retrofitted from column QTR_HOUR_ NUMBER of table TIME_SLOT_DIM	
12	QTR HOUR TIME OF DAY	Retrofitted from column QTR_HOUR_ TIME_OF_DAY of table TIME_SLOT_DIM	
13	TIME SLOT CODE	TIME SLOT CODE.	5,6
14	TIME SLOT NAME	TIME SLOT NAME.	01:00 - 01:14 AM
15	WHOLE DAY CODE	Retrofitted from column WHOLE_DAY_ CODE of table TIME_SLOT_DIM	
16	WHOLE DAY NAME	Retrofitted from column WHOLE_DAY_ NAME of table TIME_SLOT_DIM	

UMS Access Type

Description: UMS ACCESS TYPE

UMS Access Type Hierarchies

Standard UMS Access Type Hierarchy:



UMS Access Type Levels

Table 3–202 shows UMS Access Type Total: Most aggregate level shows sum of values for all types of UMS access.

Table 3–202 UMS Access Type Total

Sr. Number	Attribute	Description
1.	UMS ACCESS TYPE TOTAL ID	Code for All UMS Access Types

Table 3–203 shows UMS Access Type Detail: The granular level at which data will be captured. The values at this level indicate the actual UMS access types that are used to notify the UMS subscribers.

Table 3–203 UMS Access Type Detail

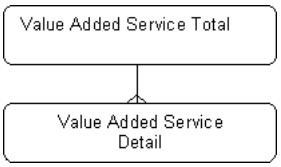
Sr. Number	Attribute	Description	Sample Value
1	UMS ACCESS TYPE CODE	Code for UMS Access Type.	FAX
2	UMS ACCESS TYPE DESC	Description of the UMS Access Type.	Fax
3	UMS ACCESS TYPE NAME	Short description of the UMS Access Type.	Fax
4	LANGUAGE CODE	Unique identifier for a row in the Language dimension.	

Value Added Services (VAS)

Description: VALUE ADDED SERVICE

Value Added Services Hierarchies

Standard Value Added Service Hierarchy:



Value Added Services Levels

Table 3–204 shows Value Added Service (VAS) Total: All VAS is the most aggregate level of the dimension and is used to see the results for all the services, that is, irrespective of type and individual service.

Table 3–204 Value Added Service Total

Sr. Number	Attribute	Description
1.	VALUE ADDED SERVICE TOTAL CODE	Code for All Value Added Service

Table 3–205 shows Value Added Service (VAS): is the lowest level or the most detail level, at which data related to VAS facts will be captured and stored. The values in this level indicate the actual value added services offered by Service provider

Table 3–205 Value Added Service

Sr. Number	Attribute	Description	Sample Value
1	VALUE ADDED SERVICE TYPE NAME	Short description of the VAS type.	
2	VALUE ADDED SERVICE TYPE DESC	Description of the VAS Type.	
3	VALUE ADDED SERVICE TYPE CODE	Code for VAS type.	
4	VALUE ADDED SERVICE NAME	Short description of the VAS.	Product 1
5	VALUE ADDED SERVICE DESC	Description of VAS.	ZeroBalImpact
6	VALUE ADDED SERVICE CODE	Code or Id for VAS.	1
7	PRODUCT TYPE CODE	Retrofitted from column PRODUCT_ KEY of table FACT_MARKET_SHARE	
8	PRODUCT RATING PLAN TYPE CODE	Identifier for the offer.	
9	PRODUCT PACKAGE TYPE CODE	Identifier for the offer.	
10	PRODUCT PACKAGE CHARGE TYPE CODE	Code.	
11	PRODUCT NAME	Product name.	
12	PRODUCT GROUP CODE	Unique identifier for Product Group.	
13	PRODUCT CODE	Uniquely identifier of product.	$13.00
14	NETWORK CODE	The network which is used by this platform	
15	IN PLATFORM CODE	Code for IN Platform	
16	EQUIPMENT FUNCTIONALITY CODE	The code of function	
18	EFFECTIVE TO DATE	The end date of the period when this Channel was valid.	12/31/2005 12:00:00 AM
19	EFFECTIVE FROM DATE	Standard SCD field, effective from date	12/31/2005 12:00:00 AM
	PROD_DESC		

4

Oracle Communications Data Model Physical Data Model

This chapter provides information about the physical data model of Oracle Communications Data Model.

This chapter includes the following sections:

Introduction to Oracle Communications Data Model Physical Data Model

The Physical Data Model of the Oracle Communications Data Model is the physical manifestation of the logical data model into database tables and relationships (or foreign key constraints). Partitions, indexes, and Materialized Views have been added to aid performance.

The Physical data model includes the following:

Important: Do not make changes to the schemas as such changes are not supported.

Oracle Communications Data Model provides the following types of tables:

- Reference tables contain information that is usually used as dimensions. They usually do not change often (or at all). Typically, Reference tables are PARTY, CUSTOMER, ADDRESS LOCATION, ACCOUNT, SUBSCRIPTION, and so on
- Lookup tables in the foundation layer are added to save the definition of short codes used in other tables.
- Base tables store information about any type of transactions (Calls Data Records or CDRs, Invoices, Payments, Business Interactions, and so on). They are usually transformed into facts.
- Derived Tables in the analytic layer are usually transition tables to STARs. They are also leveraged for the Mining models.
- Aggregate Tables, or materialized views, are the STAR schema themselves at a higher level of aggregation. They may be related to the OLAP cubes.
- Other table types, as show in Table 4–2.

For more information on Oracle Communications Data Model table types, see "What is Oracle Communications Data Model" on page 1-4.

Table 4–1 shows the table name prefix conventions. When you examine the predefined physical model, keep in mind the naming conventions shown in Table 4–1 that use DW (Data Warehouse) prefixes to identify the types of tables and views.

Table 4–1 Table Name Prefix Conventions

Prefix	Description
DWA_	Aggregate table
DWB_	Base transaction table
DWD_	Derived table (Mining included)
DWL_	Lookup table
DWR_	Reference data table

Table 4–2 Other Table Name Prefix Conventions

Prefix	Description
DM$ DR$	Created when the mining models are trained. Used to store trained model and logs.
CUBE	Created when OLAP cubes are built. Used to store logs and results.

Reference Tables

Table 4–3 briefly describes the Reference tables in Oracle Communications Data Model.

Table 4–3 Reference Tables

Table Name	More Information
DWR_ACCS_MTHD	ACCESS METHOD
DWR_ACCS_MTHD_ACCT_ASGN	ACCESS METHOD ACCOUNT ASSIGNMENT
DWR_ACCS_MTHD_ASGN	ACCESS METHOD ASSIGNMENT
DWR_ACCS_MTHD_ELMNT	ACCESS METHOD ELEMENT
DWR_ACCS_MTHD_EQPMNT_ASGN	ACCESS METHOD EQUIPMENT ASSIGNMENT
DWR_ACCS_MTHD_GEO_ASGN	ACCESS METHOD GEOGRAPHY ASSIGNMENT
DWR_ACCS_MTHD_POOL	ACCESS METHOD POOL
DWR_ACCS_MTHD_PROD_SBRP_ASGN	ACCESS METHOD PRODUCT SUBSCRIPTION ASSIGNMENT
DWR_ACCS_MTHD_PRTY_ASGN	ACCESS METHOD PARTY ASSIGNMENT
DWR_ACCS_MTHD_SGMNT	ACCESS METHOD SEGMENT
DWR_ACCS_MTHD_SRVC_ASGN	ACCESS METHOD SERVICE ASSIGNMENT
DWR_ACCSRS	ACCESSORIES
DWR_ACCSRS_INSTNC	ACCESSORIES INSTANCE
DWR_ACCT	ACCOUNT
DWR_ACCT_AGRMNT_RLTN	ACCOUNT AGREEMENT RELATIONSHIP
DWR_ACCT_ASGN	ACCOUNT ASSIGNMENT
DWR_ACCT_BAL_GRP	ACCOUNT BALANCE GROUP
DWR_ACCT_BLLG_CYCL_HIST	ACCOUNT BILLING CYCLE HISTORY
DWR_ACCT_BLLG_FRQNCY_HIST	ACCOUNT BILLING FREQUENCY HISTORY
DWR_ACCT_BLLG_PRD_HIST	ACCOUNT BILLING PERIOD HISTORY
DWR_ACCT_BSNS_INTRACN_RL	ACCOUNT BUSINESS INTERACTION ROLE
DWR_ACCT_PREF_INVC_DLVRY	ACCOUNT PREFERRED INVOICE DELIVERY
DWR_ACCT_PYMT_MTHD	ACCOUNT PAYMENT METHOD
DWR_ACCT_PRFL	ACCOUNT PROFILE
DWR_ACCT_PROD_SBRP_ASGN	ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT
DWR_ACCT_PRTY_PROD_OFR_RLTN	ACCOUNT PARTY PRODUCT OFFERING RELATIONSHIP
DWR_ACCT_PYMT_PLN_ASGN	ACCOUNT PAYMENT PLAN ASSIGNMENT
DWR_ACCT_SGMNT	ACCOUNT SEGMENT
DWR_ACCT_SGMNT_ASGN_HIST	ACCOUNT SEGMENT ASSIGNMENT HISTORY
DWR_ACCT_SGMNT_MDL	ACCOUNT SEGMENTATION MODEL
DWR_ACCT_TAX_EXMPT_ASGN	ACCOUNT TAX EXEMPT ASSIGNMENT
DWR_ADDR_LOC	ADDRESS LOCATION
DWR_ADDR_LOC_ADMIN_AREA_ASGN	ADDRESS LOCATION ADMIN AREA ASSIGNMENT
DWR_ADDR_LOC_NAME	ADDRESS LOCATION NAME
DWR_ADDR_PHONE	ADDRESS PHONE
DWR_ADDR_RLTD	ADDRESS RELATED
DWR_ADMINSTVE_AREA	ADMINISTRATIVE AREA

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_ADTNL_TXT	ADDITIONAL TEXT
DWR_ADVR_PRD	ADVERTISING PERIOD
DWR_ADVR_QTR	ADVERTISING QUARTER
DWR_ADVR_WK	ADVERTISING WEEK
DWR_ADVR_YR	ADVERTISING YEAR
DWR_AF_SRVC	AF SERVICE
DWR_AGNT	AGENT
DWR_AGGRTN_INTRFC	AGGREGATION INTERFACE
DWR_AGRMNT	AGREEMENT
DWR_AGRMNT_ASGN	AGREEMENT ASSIGNMENT
DWR_AGRMNT_DOC	AGREEMENT DOCUMENT
DWR_AGRMNT_INTNT	AGREEMENT INTENT
DWR_AGRMNT_ITEM	AGREEMENT ITEM
DWR_AGRMNT_PROD_SPEC_ASGN	AGREEMENT PRODUCT SPEC ASSIGNMENT
DWR_AGRMNT_SRVCLVL_AGRMNT_RLTN	AGREEMENT SLA RELATIONSHIP
DWR_ALWNCE_SBRP_PRICE_ALTRTN	ALLOWANCE SBRP PRICE ALTERNATION
DWR_AM_SGMNT_PROD_CPBLTY_RL	ACCESS METHOD SEGMENT PROD CAPABILITY RL
DWR_AMRCN_PRPTY_ADDR	AMERICAN PROPERTY ADDRESS
DWR_ANZSIC_CLSFCTN	ANZSIC CLASSIFICATION
DWR_ASSET	ASSET
DWR_ASSET_PRTY_ASSOCTN	ASSET PARTY ASSOCIATION
DWR_ASSET_SITE_ASGN	ASSET SITE ASSIGNMENT
DWR_ATM_INTRFC	ATM INTERFACE
DWR_ATONOMS_SYS	AUTONOMOUS SYSTEM
DWR_AUXILIARY_CMPNT	AUXILIARY COMPONENT
DWR_BASE_DAY	BASE DAY
DWR_BASE_STN_CNTRLR	BASE STATION CONTROLLER
DWR_BASE_TRNSCVR_STN	BASE TRANSCEIVER STATION
DWR_BLLG_CYCL	BILLING CYCLE
DWR_BNK	BANK
DWR_BNK_DRCT_DEBIT_CHNL	BANK DIRECT DEBIT CHANNEL
DWR_BRDBND_RTNG_PLN	BROADBAND RATING PLAN
DWR_BRDBND_SRVC	BROADBAND SERVICE
DWR_BRDGNG_PROTCL	BRIDGING PROTOCOL
DWR_BRND	BRAND
DWR_BROWSER_VRSN	BROWSER VERSION

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_BSNS_ASSET	BUSINESS ASSET
DWR_BSNS_HLF_MO	BUSINESS HALF MONTH
DWR_BSNS_HLF_YR	BUSINESS HALF YEAR
DWR_BSNS_INTRACN_ASGN	BUSINESS INTERACTION ASSIGNMENT
DWR_BSNS_INTRACN_CHAR	BUSINESS INTERACTION CHARACTERISTIC
DWR_BSNS_INTRACN_CHAR_VAL	BUSINESS INTERACTION CHARACTERISTIC VALUE
DWR_BSNS_INTRACN_ITEM_SPEC	BUSINESS INTERACTION ITEM SPECIFICATION
DWR_BSNS_INTRACN_LOC_ASGN	BUSINESS INTERACTION LOCATION ASSIGNMENT
DWR_BSNS_INTRACN_SPEC	BUSINESS INTERACTION SPECIFICATION
DWR_BSNS_MO	BUSINESS MONTH
DWR_BSNS_QTR	BUSINESS QUARTER
DWR_BSNS_UNIT_JB_RL	BUSINESS UNIT JOB ROLE
DWR_BSNS_UNIT_SHFT	BUSINESS UNIT SHIFT
DWR_BSNS_WK	BUSINESS WEEK
DWR_BSNS_YR	BUSINESS YEAR
DWR_CALL_CNTR	CALL CENTER
DWR_CALL_CNTR_AGNT	CALL CENTER AGENT
DWR_CALL_CNTR_SRVC_CAPBLTY	CALL CENTER SERVICE CAPABILITY
DWR_CALL_FRWD	CALL FORWARD
DWR_CALL_SRC_DSTN	CALL SOURCE DESTINATION
DWR_CALLR_ID	CALLER ID
DWR_CARD	CARD
DWR_CARD_RLTN	CARD RELATIONSHIP
DWR_CBL	CABLE
DWR_CBL_MDM	CABLE MODEM
DWR_CELL	CELL
DWR_CELL_SCTR	CELL SECTOR
DWR_CELL_SITE	CELL SITE
DWR_CFGBL_PROSPCCHAR_PROSPCAGN	CONFIGURABLE PRODSPECCHAR PRODSPEC ASSIGNMENT
DWR_CFGBL_PROD_SPEC_CHAR	CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTIC
DWR_CFS_SPEC_VRSN_DTL	CFS SPEC VERSION DETAIL
DWR_CHASSIS	CHASSIS
DWR_CHASSIS_POSN	CHASSIS POSITION
DWR_CHNL	CHANNEL
DWR_CLASS_BASEWTD_FAIRQUE_SRVC	CLASS BASE WEIGHTED FAIR QUEUE SERVICE
DWR_CLNDR_HLF_MO	CALENDAR HALF MONTH
DWR_CLNDR_HLF_YR	CALENDAR HALF YEAR

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_CLNDR_MO	CALENDAR MONTH
DWR_CLNDR_QTR	CALENDAR QUARTER
DWR_CLNDR_WK	CALENDAR WEEK
DWR_CLNDR_YR	CALENDAR YEAR
DWR_CLNT_HOST	CLIENT HOST
DWR_CLSSIFR_SRVC	CLASSIFIER SERVICE
DWR_CMPGN	CAMPAIGN
DWR_CMPGN_CHAR	CAMPAIGN CHARACTERISTIC
DWR_CMPGN_CHAR_VAL	CAMPAIGN CHARACTERISTIC VALUE
DWR_CMPGN_CHNL	CAMPAIGN CHANNEL
DWR_CMPGN_CHNL_ASGN	CAMPAIGN CHANNEL ASSIGNMENT
DWR_CMPGN_DOC	CAMPAIGN DOCUMENT
DWR_CMPGN_MEDIA	CAMPAIGN MEDIA
DWR_CMPGN_MEDIA_SLNG_ITEM	CAMPAIGN MEDIA SELLING ITEM
DWR_CMPGN_MGMT_HIST	CAMPAIGN MANAGEMENT HISTORY
DWR_CMPGN_MSG	CAMPAIGN MESSAGE
DWR_CMPGN_MSG_DPCT	CAMPAIGN MESSAGE DEPICTION
DWR_CMPGN_RLTN	CAMPAIGN RELATIONSHIP
DWR_CMPGN_TERM_VAL	CAMPAIGN TERM VALUE
DWR_CMPND_CNDITNNG_ELMNT	COMPOUND CONDITIONING ELEMENT
DWR_CMPND_RSCE_CMPND_DTL_ASGN	COMPOUND RESOURCE COMPOUND DETAIL ASSIGNMENT
DWR_CMPND_RSCE_COLLCTN	COMPOUND RESOURCE COLLECTION
DWR_CMPND_RSCE_DTL	COMPOUND RESOURCE DETAIL
DWR_CMPND_RSCE_RL	COMPOUND RESOURCE ROLE
DWR_CMPND_RSCE_RL_ASGN	COMPOUND RESOURCE ROLE ASSIGNMENT
DWR_CMPND_RSCE_RL_SPEC	COMPOUND RESOURCE ROLE SPEC
DWR_CMPND_RSCE_SPEC	COMPOUND RESOURCE SPEC
DWR_CMPND_RSCE_SPEC_ATMC	COMPOUND RESOURCE SPEC ATOMIC
DWR_CMPND_RSCE_SPEC_CMPST	COMPOUND RESOURCE SPEC COMPOSITE
DWR_CMPND_RSCE_TP_DTL	COMPOUND RESOURCE TP DETAIL
DWR_CMPND_RSCE_UNIT	COMPOUND RESOURCE UNIT
DWR_CMPND_RSCE	COMPOUND RESOURCE
DWR_CMPST_COMP_PROD_CRL_CHAR	COMPOSITE COMP PROD CRRL CHARACTERISTIC
DWR_CMPST_PROD_SPEC	COMPOSITE PRODUCT SPECIFICATION
DWR_CMPST_PROD_SPEC_ASGN	COMPOSITE PRODUCT SPECIFICATION ASSIGNMENT
DWR_CMPST_SRVC	COMPOSITE SERVICE
DWR_CMPST_SRVC_INCLSN	COMPOSITE SERVICE INCLUSION

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_CMPST_SRVC_TYP_INCLSN	COMPOSITE SERVICE TYPE INCLUSION
DWR_CMPTR	COMPETITOR
DWR_CMPTR_INTLGNCE	COMPETITOR INTELLIGENCE
DWR_CMPTR_INTLGNCE_PRTY_RL	COMPETITOR INTELLIGENCE PARTY ROLE
DWR_CMPTR_MKT_SGMNT_ASGN	COMPETITOR MARKET SEGMENT ASSIGNMENT
DWR_CMPTR_MKT_SGMNT_SWOT	COMPETITOR MARKET SEGMENT SWOT
DWR_CMPTR_PROD_CRLTN	COMPETITOR PRODUCT CORRELATION
DWR_CMPTR_SWOT	COMPETITOR SWOT
DWR_CMPTR_TIER_ASGN	COMPETITOR TIER ASSIGNMENT
DWR_CMST_PRODOFR_PRC_CMNT_ASGN	COMPOSITE PROD OFFER PRICE COMPONENT ASSIGNMENT
DWR_CMPTVE_TIER	COMPETITIVE TIER
DWR_CNCT_LST	CONTACT LIST
DWR_CNCTN	CONNECTION
DWR_CNCTN_TMNT_PNT	CONNECTION TERMINATION POINT
DWR_CNSEQ_PRFMNC_NTFCTN_SPEC	CONSEQUENCE PERFORMANCE NOTIFICATION SPEC
DWR_CNTNT	CONTENT
DWR_CNTNT_PRICE	CONTENT PRICE
DWR_CNTNT_PRVDR	CONTENT PROVIDER
DWR_COLLCTN	COLLECTION
DWR_COLLCTN_AGNCY	COLLECTION AGENCY
DWR_COMP_INTL_CHAR	COMP INTEL CHARACTERISTIC
DWR_COMP_INTL_CHAR_VAL	COMP INTEL CHARACTERISTIC VALUE
DWR_COMP_INTL_MKT_SGMNT	COMP INTEL MARKET SEGMENT
DWR_COMP_PROD_CRRL_CHAR	COMP PROD CRRL CHARACTERISTIC
DWR_COMP_PROD_CRRL_CHAR_ASGN	COMP PROD CRRL CHARACTERISTIC ASSIGNMENT
DWR_COMP_PROD_CRRL_CHAR_RLTN	COMP PROD CRRL CHARACTERISTIC RELATIONSHIP
DWR_COMP_PROD_CRRL_CHAR_VAL	COMP PROD CRRL CHARACTERISTIC VALUE
DWR_COMPLEX_ADDR	COMPLEX ADDRESS
DWR_COMUNICTN_SRVC	COMMUNICATION SERVICE
DWR_CORE_INTRFC	CORE INTERFACE
DWR_COST_CNTR	COST CENTER
DWR_COURIER	COURIER
DWR_CPCTY	CAPACITY
DWR_CPE_LGICL_DVC_RL	CPE LOGICAL DEVICE ROLE
DWR_CRCUT_CMPNT	CIRCUIT COMPONENT
DWR_CRDT_CTGRY	CREDIT CATEGORY
DWR_CRDT_SCR_PRVDR	CREDIT SCORE PROVIDER

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_CRNCY_GEO_ENT_ASGN	CURRENCY GEOGRAPHY ENTITY ASSIGNMENT
DWR_CROSSD_THRSHLD	CROSSED THRESHOLD
DWR_CSTM_QUENG_SRVC	CUSTOM QUEUING SERVICE
DWR_CUST	CUSTOMER
DWR_CUST_ACCT	CUSTOMER ACCOUNT
DWR_CUST_ADDR	CUSTOMER ADDRESS
DWR_CUST_AFFLTN	CUSTOMER AFFILIATION
DWR_CUST_CLASS_ASGN	CUSTOMER CLASS ASSIGNMENT
DWR_CUST_CLSTR	CUSTOMER CLUSTER
DWR_CUST_COMMUNITY	CUSTOMER COMMUNITY
DWR_CUST_DOC	CUSTOMER DOCUMENT
DWR_CUST_FCNG_SRVC	CUSTOMER FACING SERVICE
DWR_CUST_FCNG_SRVC_RL	CUSTOMER FACING SERVICE ROLE
DWR_CUST_FCNG_SRVC_SPEC	CUSTOMER FACING SERVICE SPECIFICATION
DWR_CUST_FCNG_SRVC_SPEC_ATMC	CUSTOMER FACING SERVICE SPECIFICATION ATOMIC
DWR_CUST_FCNG_SRVC_SPEC_CMPST	CUSTOMER FACING SERVICE SPECIFICATION COMPOSITE
DWR_CUST_FCNG_SRVC_SPEC_RL	CUSTOMER FACING SERVICE SPECIFICATION ROLE
DWR_CUST_FCNG_SRVC_SPEC_VRSN	CUSTOMER FACING SERVICE SPECIFICATION VERSION
DWR_CUST_GRP_ASGN	CUSTOMER GROUP ASSIGNMENT
DWR_CUST_GRP_ITEM	CUSTOMER GROUP ITEM
DWR_CUST_INDVL	CUSTOMER INDIVIDUAL
DWR_CUST_OCCSN	CUSTOMER OCCASION
DWR_CUST_ORDR_DOC	CUSTOMER ORDER DOCUMENT
DWR_CUST_ORG	CUSTOMER ORGANIZATION
DWR_CUST_PREF	CUSTOMER PREFERENCE
DWR_CUST_RLTN	CUSTOMER RELATIONSHIP
DWR_CUST_RSTRCT_INFO	CUSTOMER RESTRICTED INFO
DWR_CUST_RVN_BND_ASGN	CUSTOMER REVENUE BAND ASSIGNMENT
DWR_CUST_SCR	CUSTOMER SCORE
DWR_CUST_SGMNT	CUSTOMER SEGMENT
DWR_CUST_SGMNT_MDL	CUSTOMER SEGMENTATION MODEL
DWR_CUST_SIC_ASGN	CUSTOMER SIC ASSIGNMENT
DWR_CUST_SRC	CUSTOMER SOURCE
DWR_DAY	DAY
DWR_DAY_ACT_CONDITION	DAY ACTUAL CONDITION
DWR_DAY_TODATE_TRANS	DAY TODATE TRANSFORMATION
DWR_DAY_TRANS	DAY TRANSFORMATION

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_DEAL	DEAL
DWR_DEAL_LN_ITEM	DEAL LINE ITEM
DWR_DEMOG_ATRIB	DEMOGRAPHY ATTRIBUTE
DWR_DEMOG_CHAR	DEMOGRAPHIC CHARACTERISTIC
DWR_DEMOG_CHAR_VAL	DEMOGRAPHIC CHARACTERISTIC VALUE
DWR_DEMOG_GRP	DEMOGRAPHY GROUP
DWR_DFCT_RND_RBIN_SCHDLNG_SRVC	DEFICIT ROUND ROBIN SCHEDULING SERVICE
DWR_DIFFSERV_SRVC	DIFFSERV SERVICE
DWR_DISC_GRP	DISCOUNT GROUP
DWR_DISC_SBRP_PRICE_ALTRTN	DISCOUNT SBRP PRICE ALTERATION
DWR_DLR	DEALER
DWR_DLR_DISC_GRP_ASGN	DEALER DISCOUNT GROUP ASSIGNMENT
DWR_DOC_TYP_GRP_ASGN	DOCUMENT TYPE GROUP ASSIGNMENT
DWR_DOMAIN	DOMAIN
DWR_DRPPR_SRVC	DROPPER SERVICE
DWR_DRVD_VAL	DERIVED VALUE
DWR_DSL_MDM	DSL MODEM
DWR_DVC_INTRFC	DEVICE INTERFACE
DWR_DVC_INTRFC_DTL	DEVICE INTERFACE DETAIL
DWR_DVC_INTRFC_PHY_PRT_ASGN	DEVICE INTERFACE PHYSICAL PORT ASSIGNMENT
DWR_DVC_INTRFC_RL	DEVICE INTERFACE ROLE
DWR_DVC_INTRFC_TP_ASGN	DEVICE INTERFACE TP ASSIGNMENT
DWR_EDGE_INTRFC	EDGE INTERFACE
DWR_EF_SRVC	EF SERVICE
DWR_EIGHT_ZERO_TWO_SRVC	802 SERVICE
DWR_EML_ADDR	EMAIL ADDRESS
DWR_EML_SRVC	EMAIL SERVICE
DWR_EMP	EMPLOYEE
DWR_EMP_DISC_GRP_ASGN	EMPLOYEE DISCOUNT GROUP ASSIGNMENT
DWR_EMP_JB_RL_ASGN	EMPLOYEE JOB ROLE ASSIGNMENT
DWR_EMP_LANG_CAPBLTY	EMPLOYEE LANGUAGE CAPABILITY
DWR_EMP_RSTRCT_INFO	EMPLOYEE RESTRICTED INFO
DWR_EMP_SCHL	EMPLOYEE SCHEDULE
DWR_ENT	ENTITY
DWR_ENT_RL	ENTITY ROLE
DWR_ENT_SPEC	ENTITY SPECIFICATION
DWR_EQPMNT	EQUIPMENT

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_EQPMNT_CNTR	EQUIPMENT CENTER
DWR_EQPMNT_FNCTNLTY	EQUIPMENT FUNCTIONALITY
DWR_EQPMNT_FNCTNLTY_ASGN	EQUIPMENT FUNCTIONALITY ASSIGNMENT
DWR_EQPMNT_HLDR	EQUIPMENT HOLDER
DWR_EQPMNT_INSTNC	EQUIPMENT INSTANCE
DWR_EQPMNT_RNTNG_AGRMNT	EQUIPMENT RENTING AGREEMENT
DWR_EVT_LOC	EVENT LOCATION
DWR_EVT_PRTY_INTRACN_CHAR_VAL	EVENT PARTY INTERACTION CHARACTERISTIC VALUE
DWR_EXCHNG_LOC	EXCHANGE LOCATION
DWR_EXCLD_PRT_DTL	EXCLUDE PORT DETAIL
DWR_EXTRNL_CRDT_PRFL	EXTERNAL CREDIT PROFILE
DWR_EXTRNL_CRDT_PRFL_ASGN	EXTERNAL CREDIT PROFILE ASSIGNMENT
DWR_EXTRNL_INFO_SRC	EXTERNAL INFORMATION SOURCE
DWR_EXTRNL_OPRTR	EXTERNAL OPERATOR
DWR_FAIR_QUENG_SRVC	FAIR QUEUING SERVICE
DWR_FCTR_CMPNY	FACTOR COMPANY
DWR_FDA	FDA
DWR_FIXED_LN_PRT	FIXED LINE PORT
DWR_FIXED_LN_RTNG_PLN	FIXED LINE RATING PLAN
DWR_FIXED_LN_SRVC	FIXED LINE SERVICE
DWR_FRWL_RL	FIREWALL ROLE
DWR_FSAM	FSAM
DWR_FSCL_HLF_MO	FISCAL HALF MONTH
DWR_FSCL_HLF_YR	FISCAL HALF YEAR
DWR_FSCL_MO	FISCAL MONTH
DWR_FSCL_QTR	FISCAL QUARTER
DWR_FSCL_WK	FISCAL WEEK
DWR_FSCL_YR	FISCAL YEAR
DWR_FXBLE_CHAR	FLEXIBLE CHARACTERISTIC
DWR_FXBLE_CHAR_ASGN	FLEXIBLE CHARACTERISTIC ASSIGNMENT
DWR_FXBLE_CHAR_RLTN	FLEXIBLE CHARACTERISTIC RELATIONSHIP
DWR_FXBLE_CHAR_VAL	FLEXIBLE CHARACTERISTIC VALUE
DWR_FXBLE_CHAR_VAL_ASGN	FLEXIBLE CHARACTERISTIC VALUE ASSIGNMENT
DWR_FXBLE_CHAR_VAL_RLTN	FLEXIBLE CHARACTERISTIC VALUE RELATIONSHIP
DWR_GEO_BLDG	GEOGRAPHY BUILDING
DWR_GEO_CITY	GEOGRAPHY CITY
DWR_GEO_CNTRY	GEOGRAPHY COUNTRY

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_GEO_CNTY	GEOGRAPHY COUNTY
DWR_GEO_COMPLEX	GEOGRAPHY COMPLEX
DWR_GEO_DEMOG_ATRIB	GEOGRAPHY DEMOGRAPHY ATTRIBUTE
DWR_GEO_DEMOG_GRP	GEOGRAPHY DEMOGRAPHIC GROUP
DWR_GEO_DEMOG_VAL	GEOGRAPHY DEMOGRAPHY VALUE
DWR_GEO_ENT	GEOGRAPHY ENTITY
DWR_GEO_ENT_ASGN	GEOGRAPHY ENTITY ASSIGNMENT
DWR_GEO_ENT_HIER_LVL_ASGN	GEOGRAPHY ENTITY HIER LEVEL ASSIGNMENT
DWR_GEO_HRCHY	GEOGRAPHY HIERARCHY
DWR_GEO_HRCHY_LVL	GEOGRAPHY HIERARCHY LEVEL
DWR_GEO_HRCHY_LVL_ASGN	GEOGRAPHY HIERARCHY LEVEL ASSIGNMENT
DWR_GEO_LVL	GEOGRAPHY LEVEL
DWR_GEO_LVL_ATRIB	GEOGRAPHY LEVEL ATTRIBUTE
DWR_GEO_LVL_ATRIB_VAL	GEOGRAPHY LEVEL ATTRIBUTE VALUE
DWR_GEO_RGN	GEOGRAPHY REGION
DWR_GEO_SBRGN	GEOGRAPHY SUB REGION
DWR_GEO_STATE	GEOGRAPHY STATE
DWR_GEO_STRT	GEOGRAPHY STREET
DWR_GEO_WORLD	GEOGRAPHY WORLD
DWR_GL_ACCT	GL ACCOUNT
DWR_GL_ACCT_ASGN	GL ACCOUNT ASSIGNMENT
DWR_GL_ACCT_SGMNT	GL ACCOUNT SEGMENT
DWR_GL_COST_CNTR_SGMNT	GL COST CENTER SEGMENT
DWR_GL_LDGR	GL LEDGER
DWR_GL_LDGR_ACCT_ASGN	GL LEDGER ACCOUNT ASSIGNMENT
DWR_GL_ORG_BSNS_UNIT_SGMNT	GL ORG BSNS UNIT SEGMENT
DWR_GL_PRD	GL PERIOD
DWR_GL_PROD_SPEC_SGMNT	GL PRODUCT SPECIFICATION SEGMENT
DWR_GL_PROJ_SGMNT	GL PROJECT SEGMENT
DWR_GL_REF	GL REFERENCE
DWR_GL_SBLDGR	GL SUBLEDGER
DWR_GL_SGMNT	GL SEGMENT
DWR_GPRS_SRVC	GPRS SERVICE
DWR_HEAD_TAIL_DRPPR_SRVC	HEAD TAIL DROPPER SERVICE
DWR_HH	HOUSEHOLD
DWR_HLDR_ATMC	HOLDER ATOMIC
DWR_HLDR_CMPST	HOLDER COMPOSITE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_HLF_HR	HALF HOUR
DWR_HLF_MO_TODATE_TRANS	HALF MONTH TODATE TRANSFORMATION
DWR_HLF_MO_TRANS	HALF MONTH TRANSFORMATION
DWR_HLF_YR_TODATE_TRANS	HALF YEAR TODATE TRANSFORMATION
DWR_HLF_YR_TRANS	HALF YEAR TRANSFORMATION
DWR_HM_SBCRBR_SERVER	HOME SUBSCRIBER SERVER
DWR_HNDST_INSTNC	HANDSET INSTANCE
DWR_HNDST_MDL	HANDSET MODEL
DWR_HR	HOUR
DWR_HRDWR	HARDWARE
DWR_IDD	IDD
DWR_IN_PLTFRM	IN PLATFORM
DWR_IN_RUTNG_DVC	IN ROUTING DEVICE
DWR_INDVL_DEMOG_PRFL	INDIVIDUAL DEMOGRAPHY PROFILE
DWR_INDVL_DEMOG_VAL	INDIVIDUAL DEMOGRAPHY VALUE
DWR_INDVL_NAME	INDIVIDUAL NAME
DWR_INSTLMNT_AGRMNT	INSTALLMENT AGREEMENT
DWR_INTRACN_CHNL	INTERACTION CHANNEL
DWR_INTRACN_NAVGTN_ASGN	INTERACTION NAVIGATION ASSIGNMENT
DWR_INTRACN_NAVGTN_ITEM	INTERACTION NAVIGATION ITEM
DWR_INTRACN_NAVGTN_TYP_VRSN	INTERACTION NAVIGATION TYPE VERSION
DWR_INV_LOC	INVENTORY LOCATION
DWR_INVC_ADJ_QTA	INVOICE ADJUSTMENT QUOTA
DWR_INVC_PRCS_ASGN	INVOICE PROCESS ASSIGNMENT
DWR_IP_ADDR	IP ADDRESS
DWR_IP_ADDR_POOL	IP ADDRESS POOL
DWR_IP_SUBNET	IP SUBNET
DWR_IPV4_ADDR	IPV4 ADDRESS
DWR_ISP	ISP
DWR_ISP_BSNS	ISP BUSINESS
DWR_ISP_BSNS_ASGN	ISP BUSINESS ASSIGNMENT
DWR_ISP_USER	ISP USER
DWR_ITEM_CLASS	ITEM CLASS
DWR_ITEM_CLSTR	ITEM CLUSTER
DWR_ITEM_CMPNY	ITEM COMPANY
DWR_ITEM_DEPT	ITEM DEPARTMENT
DWR_ITEM_DIV	ITEM DIVISION

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_ITEM_GRP	ITEM GROUP
DWR_ITEM_SBC	ITEM SUBCLASS
DWR_ITEM_SPEC	ITEM SPECIFICATION
DWR_IVR_MENU_CNTNT	IVR MENU CONTENT
DWR_IVR_MENU_ITEM	IVR MENU ITEM
DWR_JB	JOB
DWR_JB_RL	JOB ROLE
DWR_JUR	JURISDICTION
DWR_KEY_PRFMNC_IND_SLS_PARM	KEY PERFORMANCE INDICATOR SLS PARM
DWR_KEY_QLTY_IND_SLS_PARM	KEY QUALITY INDICATOR SLS PARM
DWR_LAN	LAN
DWR_LAN_PROTCL	LAN PROTOCOL
DWR_LAND_PARCEL_ADDR	LAND PARCEL ADDRESS
DWR_LANG_DIALECT	LANGUAGE DIALECT
DWR_LAYER_NTWK	LAYER NETWORK
DWR_LCL_ADDR_LOC	LOCAL ADDRESS LOCATION
DWR_LGICL_CPCTY	LOGICAL CAPACITY
DWR_LGICL_DVC	LOGICAL DEVICE
DWR_LGICL_DVC_ATMC	LOGICAL DEVICE ATOMIC
DWR_LGICL_DVC_CMPST	LOGICAL DEVICE COMPOSITE
DWR_LGICL_DVC_OS_ASGN	LOGICAL DEVICE OS ASSIGNMENT
DWR_LGICL_DVC_RL	LOGICAL DEVICE ROLE
DWR_LGICL_DVC_RL_SPEC	LOGICAL DEVICE ROLE SPEC
DWR_LGICL_DVC_SPEC	LOGICAL DEVICE SPECIFICATION
DWR_LGICL_INTRFC	LOGICAL INTERFACE
DWR_LGICL_RSCE	LOGICAL RESOURCE
DWR_LGICL_RSCE_PHY_SPPRT	LOGICAL RESOURCE PHYSICAL SUPPORT
DWR_LGICL_RSCE_RL	LOGICAL RESOURCE ROLE
DWR_LGICL_RSCE_RL_ASGN	LOGICAL RESOURCE ROLE ASSIGNMENT
DWR_LGICL_RSCE_RL_SPEC	LOGICAL RESOURCE ROLE SPECIFICATION
DWR_LGICL_RSCE_SPEC	LOGICAL RESOURCE SPECIFICATION
DWR_LGICL_RSCE_SPEC_ATMC	LOGICAL RESOURCE SPEC ATOMIC
DWR_LGICL_RSCE_SPEC_CMPST	LOGICAL RESOURCE SPEC COMPOSITE
DWR_LGICL_RSCE_SPEC_PHY_SPPRT	LOGICAL RESOURCE SPEC PHYSICAL SUPPORT
DWR_LGICL_RSCE_SPEC_VRSN	LOGICAL RESOURCE SPEC VERSION
DWR_LYLTY_PROG	LOYALTY PROGRAM
DWR_LYLTY_TIER	LOYALTY TIER

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_LYLTY_TIER_CLASS	LOYALTY TIER CLASS
DWR_MAILBOX	MAILBOX
DWR_MANAGED_ENT	MANAGED ENTITY
DWR_MANAGED_HRDWR	MANAGED HARDWARE
DWR_MANAGED_TRNSMISN_ENT	MANAGED TRANSMISSION ENTITY
DWR_MBL_SWTCHNG_CNTR	MOBILE SWITCHING CENTER
DWR_MBRSHIP_ACCT	MEMBERSHIP ACCOUNT
DWR_MDIA_ITRFC_LGL_INTRFC_ASGN	MEDIA INTERFACE LOGICAL INTERFACE ASSIGNMENT
DWR_MEDIA_INTRFC	MEDIA INTERFACE
DWR_MEDIA_OBJ	MEDIA OBJECT
DWR_MEDIA_OBJ_ASGN	MEDIA OBJECT ASSIGNMENT
DWR_MGMT_DOMAIN	MANAGEMENT DOMAIN
DWR_MGMT_INFO	MANAGEMENT INFORMATION
DWR_MGMT_PROTCL	MANAGEMENT PROTOCOL
DWR_MKT_AREA	MARKET AREA
DWR_MKT_AREA_LVL	MARKET AREA LEVEL
DWR_MKT_SGMNT	MARKET SEGMENT
DWR_MKT_SGMNT_CHAR	MARKET SEGMENT CHARACTERISTIC
DWR_MKT_SGMNT_CHAR_VAL	MARKET SEGMENT CHARACTERISTIC VALUE
DWR_MKT_STTSTCS	MARKET STATISTICS
DWR_MMS_SRVC	MMS SERVICE
DWR_MNITRD_CLASS_CRTRA	MONITORED CLASS CRITERIA
DWR_MNITRD_INSTNCS_CRTRA	MONITORED INSTANCES CRITERIA
DWR_MNITRD_OBJS_CRTRA	MONITORED OBJECTS CRITERIA
DWR_MNT	MINUTE
DWR_MO_TODATE_TRANS	MONTH TODATE TRANSFORMATION
DWR_MO_TRANS	MONTH TRANSFORMATION
DWR_MRKR_POOL	MARKER POOL
DWR_MRKR_SRVC	MARKER SERVICE
DWR_MRKR_SRVC_MRKR_POOL_ASGN	MARKER SERVICE MARKER POOL ASSIGNMENT
DWR_MSRMNT_JB	MEASUREMENT JOB
DWR_MTR_PRFL	METER PROFILE
DWR_MTR_SRVC	METER SERVICE
DWR_MTR_SRVC_PRFL_ASGN	METER SERVICE PROFILE ASSIGNMENT
DWR_MUS_DNLD	MUSIC DOWNLOAD
DWR_NAICS_CLSFCTN	NAICS CLASSIFICATION
DWR_NAICS_INDSTRY	NAICS INDUSTRY

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_NAICS_INDSTRY_GRP	NAICS INDUSTRY GROUP
DWR_NAICS_INDSTRY_SCTR	NAICS INDUSTRY SECTOR
DWR_NAICS_INDSTRY_SUBSCTR	NAICS INDUSTRY SUBSECTOR
DWR_NBR_AREA	NUMBER AREA
DWR_NBR_CNTRY	NUMBER COUNTRY
DWR_NEGOTIATED_SRVC_LVL_SPEC	NEGOTIATED SERVICE LEVEL SPEC
DWR_NP_MBL_MSISDN	NP MOBILE MSISDN
DWR_NTWK	NETWORK
DWR_NTWK_ADDR	NETWORK ADDRESS
DWR_NTWK_ADDR_INTRFC_BNDNG	NETWORK ADDRESS INTERFACE BINDING
DWR_NTWK_ASGN	NETWORK ASSIGNMENT
DWR_NTWK_ATMC	NETWORK ATOMIC
DWR_NTWK_CMPST	NETWORK COMPOSITE
DWR_NTWK_CPCTY	NETWORK CAPACITY
DWR_NTWK_DOMAIN	NETWORK DOMAIN
DWR_NTWK_DOMAIN_ASGN	NETWORK DOMAIN ASSIGNMENT
DWR_NTWK_FRWRDNG_SRVC	NETWORK FORWARDING SERVICE
DWR_NTWK_ROUTE	NETWORK ROUTE
DWR_NTWK_ROUTE_PNT	NETWORK ROUTE POINT
DWR_NTWK_ROUTE_PNT_ASGN	NETWORK ROUTE POINT ASSIGNMENT
DWR_NTWK_ROUTE_SECTN	NETWORK ROUTE SECTION
DWR_NTWK_SITE	NETWORK SITE
DWR_NTWK_SRVC_COVRG_ASGN	NETWORK SERVICE COVERAGE ASSIGNMENT
DWR_NTWK_TCHPNT	NETWORK TOUCHPOINT
DWR_OPERTNG_SYS	OPERATING SYSTEM
DWR_ORACLE_GEOMETRY	ORACLE GEOMETRY
DWR_ORG	ORGANIZATION
DWR_ORG_AREA	ORGANIZATION AREA
DWR_ORG_BNR	ORGANIZATION BANNER
DWR_ORG_BSNS_ENT	ORGANIZATION BUSINESS ENTITY
DWR_ORG_BSNS_UNIT	ORGANIZATION BUSINESS UNIT
DWR_ORG_CHAIN	ORGANIZATION CHAIN
DWR_ORG_CMPNY	ORGANIZATION COMPANY
DWR_ORG_CRPRT	ORGANIZATION CORPORATE
DWR_ORG_DIV	ORGANIZATION DIVISION
DWR_ORG_DSTRCT	ORGANIZATION DISTRICT
DWR_ORG_HRCHY	ORGANIZATION HIERARCHY

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_ORG_HRCHY_LVL	ORGANIZATION HIERARCHY LEVEL
DWR_ORG_HRCHY_LVL_ASGN	ORGANIZATION HIERARCHY LEVEL ASSIGNMENT
DWR_ORG_HRCHY_VRSN	ORGANIZATION HIERARCHY VERSION
DWR_ORG_ITEM_SLNG_PRICE	ORGANIZATION ITEM SELLING PRICE
DWR_ORG_LVL	ORGANIZATION LEVEL
DWR_ORG_LVL_ATRIB_VAL	ORGANIZATION LEVEL ATTRIBUTE VALUE
DWR_ORG_LVL_ATTR	ORGANIZATION LEVEL ATTRIBUTES
DWR_ORG_MKT_DATA	ORGANIZATION MARKET DATA
DWR_ORG_NAME	ORGANIZATION NAME
DWR_ORG_RGN	ORGANIZATION REGION
DWR_ORG_SRVC_WBSITE	ORGANIZATION SERVICE WEBSITE
DWR_ORG_WRHS	ORGANIZATION WAREHOUSE
DWR_ORGNTL_DEMOG_VAL	ORGANIZATIONAL DEMOGRAPHY VALUE
DWR_OS_LICNS_ASGN	OS LICENSE ASSIGNMENT
DWR_OTHR_INDVL	OTHER INDIVIDUAL
DWR_P_LGICL_DVC_RL	P LOGICAL DEVICE ROLE
DWR_PASPRT	PASSPORT
DWR_PBLCTN	PUBLICATION
DWR_PDSPC_CHRVL_RESPC_CHRVL_AN	PRODUCT SPEC CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT
DWR_PE_LGICL_DVC_RL	PE LOGICAL DEVICE ROLE
DWR_PG	PAGE
DWR_PHONE_NBR	PHONE NUMBER
DWR_PHONE_NBR_POOL	PHONE NUMBER POOL
DWR_PHS	PHASE
DWR_PHY_CMPNT	PHYSICAL COMPONENT
DWR_PHY_CNCTR	PHYSICAL CONNECTOR
DWR_PHY_CONTNR	PHYSICAL CONTAINER
DWR_PHY_CPCTY	PHYSICAL CAPACITY
DWR_PHY_CPCTY_DTL	PHYSICAL CAPACITY DETAIL
DWR_PHY_DVC	PHYSICAL DEVICE
DWR_PHY_DVC_ATMC	PHYSICAL DEVICE ATOMIC
DWR_PHY_DVC_CMPST	PHYSICAL DEVICE COMPOSITE
DWR_PHY_DVC_RL_SPEC	PHYSICAL DEVICE ROLE SPEC
DWR_PHY_DVC_RL_SPEC_DTL	PHYSICAL DEVICE ROLE SPEC DETAIL
DWR_PHY_DVC_SPEC	PHYSICAL DEVICE SPEC
DWR_PHY_EQPMNT	PHYSICAL EQUIPMENT

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PHY_LNK	PHYSICAL LINK
DWR_PHY_PRT	PHYSICAL PORT
DWR_PHY_PRT_RSCE_PRT_ASGN	PHYSICAL PORT RESOURCE PORT ASSIGNMENT
DWR_PHY_RSCE	PHYSICAL RESOURCE
DWR_PHY_RSCE_ADDR	PHYSICAL RESOURCE ADDRESS
DWR_PHY_RSCE_CHAR	PHYSICAL RESOURCE CHARACTERISTIC
DWR_PHY_RSCE_PROD_SBRP	PHYSICAL RESOURCE PRODUCT SUBSCRIPTION
DWR_PHY_RSCE_RL	PHYSICAL RESOURCE ROLE
DWR_PHY_RSCE_RL_ASGN	PHYSICAL RESOURCE ROLE ASSIGNMENT
DWR_PHY_RSCE_RL_SPEC	PHYSICAL RESOURCE ROLE SPECIFICATION
DWR_PHY_RSCE_RL_SPEC_DTL	PHYSICAL RESOURCE ROLE SPECIFICATION DETAIL
DWR_PHY_RSCE_SPEC	PHYSICAL RESOURCE SPECIFICATION
DWR_PHY_RSCE_SPEC_ATMC	PHYSICAL RESOURCE SPECIFICATION ATOMIC
DWR_PHY_RSCE_SPEC_CMPST	PHYSICAL RESOURCE SPECIFICATION COMPOSITE
DWR_PIPE	PIPE
DWR_PIT_CHAR	PIT CHARACTERISTIC
DWR_PLCIR_SRVC	POLICIER SERVICE
DWR_PLCY	POLICY
DWR_PLCY_ACTN	POLICY ACTION
DWR_PLCY_ACTN_ASGN	POLICY ACTION ASSIGNMENT
DWR_PLCY_ACTN_ATMC	POLICY ACTION ATOMIC
DWR_PLCY_ACTN_CMPST	POLICY ACTION COMPOSITE
DWR_PLCY_ACTN_RULE_ASGN	POLICY ACTION RULE ASSIGNMENT
DWR_PLCY_ACTN_VNDR	POLICY ACTION VENDOR
DWR_PLCY_APPLN_ASGN	POLICY APPLICATION ASSIGNMENT
DWR_PLCY_CNDTN	POLICY CONDITION
DWR_PLCY_CNDTN_ASGN	POLICY CONDITION ASSIGNMENT
DWR_PLCY_CNDTN_ATMC	POLICY CONDITION ATOMIC
DWR_PLCY_CNDTN_CMPST	POLICY CONDITION COMPOSITE
DWR_PLCY_CNDTN_RULE_ASGN	POLICY CONDITION RULE ASSIGNMENT
DWR_PLCY_CNDTN_TIME_PRD	POLICY CONDITION TIME PERIOD
DWR_PLCY_CNDTN_VNDR	POLICY CONDITION VENDOR
DWR_PLCY_GRP	POLICY GROUP
DWR_PLCY_GRP_EXEC_DTL	POLICY GROUP EXECUTION DETAIL
DWR_PLCY_OPRTR	POLICY OPERATOR
DWR_PLCY_OPRTR_VARBLE_ASGN	POLICY OPERATOR VARIABLE ASSIGNMENT
DWR_PLCY_RL	POLICY ROLE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PLCY_RULE	POLICY RULE
DWR_PLCY_SET	POLICY SET
DWR_PLCY_SET_ASGN	POLICY SET ASSIGNMENT
DWR_PLCY_STMT	POLICY STATEMENT
DWR_PLCY_VAL	POLICY VALUE
DWR_PLCY_VARBLE	POLICY VARIABLE
DWR_PLCY_VARBLE_VAL_ASGN	POLICY VARIABLE VALUE ASSIGNMENT
DWR_PLNG_PRD	PLANNING PERIOD
DWR_PLNG_QTR	PLANNING QUARTER
DWR_PLNG_SEASON	PLANNING SEASON
DWR_PLNG_WK	PLANNING WEEK
DWR_PLNG_YR	PLANNING YEAR
DWR_PNT_BLCK	POINT BLOCK
DWR_PNT_CD	POINT CODE
DWR_POS_DEPT	POINT OF SALE DEPARTMENT
DWR_POSTCD	POSTCODE
DWR_PRAMBL_MRKNG_DTLS_ASGN	PREAMBLE MARKING DETAILS ASSIGNMENT
DWR_PRAMBL_MRKR_SRVC	PREAMBLE MARKER SERVICE
DWR_PRBLM_TRBLE_TCKT_ASGN	PROBLEM TROUBLE TICKET ASSIGNMENT
DWR_PRCS	PROCESS
DWR_PRCE_EVT_PRODOFR_PRCE_ASGN	PROCESS EVENT PRODUCT OFFER PRICE ASSIGNMENT
DWR_PRCS_EVT_ASGN	PROCESS EVENT ASSIGNMENT
DWR_PRCS_PRMTR	PROCESS PARAMETER
DWR_PRCS_PRMTR_ASGN	PROCESS PARAMETER ASSIGNMENT
DWR_PRCS_PRMTR_VAL	PROCESS PARAMETER VALUE
DWR_PRCS_RLTN	PROCESS RELATIONSHIP
DWR_PRCS_SPEC	PROCESS SPECIFICATION
DWR_PRCS_SPEC_RLTN	PROCESS SPECIFICATION RELATIONSHIP
DWR_PRD_TODATE_TRANS	PERIOD TO DATE TRANSFORMATION
DWR_PRD_TRANS	PERIOD TRANSFORMATION
DWR_PRDSPC_CHR_RSCESPC_CHR_AGN	PRODUCT SPEC CHAR RESOURCE SPEC CHAR ASSIGNMENT
DWR_PRFMNC_APLBLETY	PERFORMANCE APPLICABILITY
DWR_PRFMNC_CAT_CHAR_VAL	PERFORMANCE CAT CHARACTERISTIC VALUE
DWR_PRFMNC_CAT_SPEC	PERFORMANCE CAT SPECIFICATION
DWR_PRFMNC_CAT_SPEC_RLTN	PERFORMANCE CAT SPEC RELATIONSHIP
DWR_PRFMNC_CHAR_VAL	PERFORMANCE CHARACTERISTIC VALUE
DWR_PRFMNC_CTGRY	PERFORMANCE CATEGORY

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PRFMNC_CTGRY_RLTN	PERFORMANCE CATEGORY RELATIONSHIP
DWR_PRFMNC_IND_RLTN	PERFORMANCE INDICATOR RELATIONSHIP
DWR_PRFMNC_IND_SPEC_RLTN	PERFORMANCE INDICATOR SPEC RELATIONSHIP
DWR_PRFMNC_IND_SPEC	PERFORMANCE INDICATOR SPECIFICATION
DWR_PRFMNC_IP_ADDR	PERFORMANCE IP ADDRESS
DWR_PRFMNC_NTFCTN_SPEC	PERFORMANCE NOTIFICATION SPECIFICATION
DWR_PRFMNC_NTWK_ADDR	PERFORMANCE NETWORK ADDRESS
DWR_PRFMNC_OBJ_APLBLETY_CNSEQ	PERFORMANCE OBJECTIVE APPLICABILITY CONSEQUENCE
DWR_PRFMNC_OBJCTV	PERFORMANCE OBJECTIVE
DWR_PRFMNC_OBJCTV_APLBLETY	PERFORMANCE OBJECTIVE APPLICABILITY
DWR_PRFMNC_PNT_CD	PERFORMANCE POINT CODE
DWR_PRFMNC_SPEC	PERFORMANCE SPECIFICATION
DWR_PRFMNC_SPEC_INTRVL_CNVRSN	PERFORMANCE SPEC INTERVAL CONVERSION
DWR_PRFMNC_SPEC_INTRVL	PERFORMANCE SPECIFICATION INTERVAL
DWR_PRICE_DRVTN_RULE	PRICE DERIVATION RULE
DWR_PRICE_TYP_RLTN	PRICE TYPE RELATIONSHIP
DWR_PRIORITY_QUENG_SRVC	PRIORITY QUEUING SERVICE
DWR_PRMTN	PROMOTION
DWR_PRMTN_MSG_RNDRNG	PROMOTION MESSAGE RENDERING
DWR_PRMTN_PROD_CTLG_ASGN	PROMOTION PRODUCT CATALOG ASSIGNMENT
DWR_PRMTN_PROD_OFR_ASGN	PROMOTION PRODUCT OFFERING ASSIGNMENT
DWR_PRMTN_RLTN	PROMOTION RELATIONSHIP
DWR_PRMTN_SL_CHNL_ASGN	PROMOTION SALES CHANNEL ASSIGNMENT
DWR_PROD	PRODUCT
DWR_PRODOFR_PRODOFR_PRICE_ASGN	PRODUCT OFFERING PRODUCT OFFERING PRICE ASSIGNMENT
DWR_PROD_CAPBLTY	PRODUCT CAPABILITY
DWR_PROD_CAPBLTY_VAL	PRODUCT CAPABILITY VALUE
DWR_PROD_CHAR_VAL	PRODUCT CHARACTERISTIC VALUE
DWR_PROD_COVRG_AREA	PRODUCT COVERAGE AREA
DWR_PROD_COVRG_GEO_DTL	PRODUCT SPECIFICATION COVERAGE GEO DETAIL
DWR_PROD_CTLG	PRODUCT CATALOG
DWR_PROD_CTLG_CHAR	PRODUCT CATALOG CHARACTERISTIC
DWR_PROD_CTLG_CHAR_ASGN	PRODUCT CATALOG CHARACTERISTIC ASSIGNMENT
DWR_PROD_CTLG_CHAR_RLTN	PRODUCT CATALOG CHARACTERISTIC RELATIONSHIP
DWR_PROD_CTLG_CHAR_VAL	PRODUCT CATALOG CHARACTERISTIC VALUE
DWR_PROD_CTLG_CHAR_VAL_ASGN	PRODUCT CATALOG CHARACTERISTIC VALUE ASSIGNMENT

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PROD_CTLG_CHAR_VAL_RLTN	PRODUCT CATALOG CHARACTERISTIC VALUE RELATIONSHIP
DWR_PROD_CTLG_GEO_ASGN	PRODUCT CATALOG GEOGRAPHY ASSIGNMENT
DWR_PROD_CTLG_PROD_OFR_ASGN	PRODUCT CATALOG PRODUCT OFFERING ASSIGNMENT
DWR_PROD_CTLG_SL_CHNL_ASGN	PRODUCT CATALOG SALES CHANNEL ASSIGNMENT
DWR_PROD_FNCTNLTY_DPNDNTCY	PRODUCT FUNCTIONALITY DEPENDENCY
DWR_PROD_GEO_ASGN	PRODUCT GEOGRAPHY ASSIGNMENT
DWR_PROD_OFR	PRODUCT OFFERING
DWR_PROD_OFR_AVLBLTY	PRODUCT OFFERING AVAILABILITY
DWR_PROD_OFR_DOC_REQRMNT	PRODUCT OFFERING DOCUMENT REQUIREMENT
DWR_PROD_OFR_GEO_ASGN	PRODUCT OFFERING GEOGRAPHY ASSIGNMENT
DWR_PROD_OFR_GRP	PRODUCT OFFERING GROUP
DWR_PROD_OFR_GRP_ASGN	PRODUCT OFFERING GROUP ASSIGNMENT
DWR_PROD_OFR_MKT_SGMNT_AVLBLTY	PRODUCT OFFERING MARKET SEGMENT AVAILABILITY
DWR_PROD_OFR_ORG_AVLBLTY	PRODUCT OFFERING ORGANIZATION AVAILABILITY
DWR_PROD_OFR_PRICE	PRODUCT OFFERING PRICE
DWR_PROD_OFR_PRICE_CMPNT	PRODUCT OFFERING PRICE COMPONENT
DWR_PROD_OFR_PRICE_CMPST	PRODUCT OFFERING PRICE COMPOSITE
DWR_PROD_OFR_PRICE_PLCY_ACTN	PRODUCT OFFERING PRICE POLICY ACTION
DWR_PROD_OFR_PRICE_PLCY_CNDTN	PRODUCT OFFERING PRICE POLICY CONDITION
DWR_PROD_OFR_PRICE_PLCY_VAL	PRODUCT OFFERING PRICE POLICY VALUE
DWR_PROD_OFR_PRICE_PLCY_VAR	PRODUCT OFFERING PRICE POLICY VARIABLE
DWR_PROD_OFR_PRICE_RCRNG	PRODUCT OFFERING PRICE RECURRING
DWR_PROD_OFR_PRICE_RLTN	PRODUCT OFFERING PRICE RELATIONSHIP
DWR_PROD_OFR_PROD_ASGN	PRODUCT OFFERING PRODUCT ASSIGNMENT
DWR_PROD_OFR_PROD_SPEC_ASGN	PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT
DWR_PROD_OFR_RLTN	PRODUCT OFFERING RELATIONSHIP
DWR_PROD_OFR_RTNG_PLN	PRODUCT OFFERING RATING PLAN
DWR_PROD_OFR_RTNG_PLN_DTL	PRODUCT OFFERING RATING PLAN DETAIL
DWR_PROD_OFR_SUB_BY_DOC	PRODUCT OFFERING SUBSTITUTE BY DOC
DWR_PROD_OFR_TERM	PRODUCT OFFERING TERM
DWR_PROD_PRICE_ALTRTN	PRODUCT PRICE ALTERATION
DWR_PROD_PRICE_CMPNT	PRODUCT PRICE COMPONENT
DWR_PROD_PRICE_PRTY_RL	PRODUCT PRICE PARTY ROLE
DWR_PROD_PROD_CAPBLTY_VAL_ASGN	PRODUCT PRODUCT CAPABILITY VALUE ASSIGNMENT
DWR_PROD_RLTN	PRODUCT RELATIONSHIP
DWR_PROD_SBRP	PRODUCT SUBSCRIPTION
DWR_PROD_SBRP_ASGN	PRODUCT SUBSCRIPTION ASSIGNMENT

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PROD_SBRP_PRICE	PRODUCT SUBSCRIPTION PRICE
DWR_PROD_SBRP_PRICE_RLTN	PRODUCT SUBSCRIPTION PRICE RELATIONSHIP
DWR_PROD_SBRP_PRODOFRPRIE_ASGN	PRODUCT SUBSCRIPTION PRODUCT OFFERING PRICE ASSIGNMENT
DWR_PROD_SPEC	PRODUCT SPECIFICATION
DWR_PROD_SPEC_ADTNL_TXT	PRODUCT SPECIFICATION ADDITIONAL TEXT
DWR_PROD_SPEC_CHAR	PRODUCT SPECIFICATION CHARACTERISTIC
DWR_PROD_SPEC_CHAR_CFG_ASGN	PRODUCT SPECIFICATION CHARACTERISTIC CONFIGURABLE ASSIGNMENT
DWR_PROD_SPEC_CHAR_RLTN	PRODUCT SPECIFICATION CHARACTERISTIC RELATIONSHIP
DWR_PROD_SPEC_CHAR_USE	PRODUCT SPECIFICATION CHARACTERISTIC USE
DWR_PROD_SPEC_CHAR_VAL	PRODUCT SPECIFICATION CHARACTERISTIC VALUE
DWR_PROD_SPEC_CHAR_VAL_RLTN	PRODUCT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
DWR_PROD_SPEC_CHAR_VAL_USE	PRODUCT SPECIFICATION CHARACTERISTIC VALUE USE
DWR_PROD_SPEC_GRP_ASGN	PRODUCT SPECIFICATION GROUP ASSIGNMENT
DWR_PROD_SPEC_HIST	PRODUCT SPECIFICATION HISTORY
DWR_PROD_SPEC_NTWK_ASGN	PRODUCT SPECIFICATION NETWORK ASSIGNMENT
DWR_PROD_SPEC_RLTN	PRODUCT SPECIFICATION RELATIONSHIP
DWR_PROD_SPEC_VRSN	PRODUCT SPECIFICATION VERSION
DWR_PROD_USRNM	PRODUCT USERNAME
DWR_PROJ	PROJECT
DWR_PROJ_ELMNT	PROJECT ELEMENT
DWR_PROPOSAL	PROPOSAL
DWR_PROPOSAL_RLTN	PROPOSAL RELATIONSHIP
DWR_PROTCL	PROTOCOL
DWR_PRPD_VCHR	PREPAID VOUCHER
DWR_PRPD_VCHR_BTCH	PREPAID VOUCHER BATCH
DWR_PRPD_VCHR_RCHRG_OPTN	PREPAID VOUCHER RECHARGE OPTION
DWR_PRPD_VCHR_SPEC	PREPAID VOUCHER SPECIFICATION
DWR_PRPTY	PROPERTY
DWR_PRPTY_ADDR_LOC_ASGN	PROPERTY ADDRESS LOCATION ASSIGNMENT
DWR_PRSPCT	PROSPECT
DWR_PRSPCT_INDVL	PROSPECT INDIVIDUAL
DWR_PRSPCT_ORG	PROSPECT ORGANIZATION
DWR_PRSPCT_QLTY_SCR_VAL	PROSPECT QUALITY SCORE VALUE
DWR_PRSPCT_RSTRCT_INFO	PROSPECT RESTRICTED INFORMATION
DWR_PRTNR_PRMTN_PROG	PARTNER PROMOTION PROGRAM

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PRTY	PARTY
DWR_PRTY_ACCT_ASGN	PARTY ACCOUNT ASSIGNMENT
DWR_PRTY_ADDR_LOC_ASGN	PARTY ADDRESS LOCATION ASSIGNMENT
DWR_PRTY_AGRMNT_ASGN	PARTY AGREEMENT ASSIGNMENT
DWR_PRTY_ASGN	PARTY ASSIGNMENT
DWR_PRTY_BSNS_INTRACN_RL	PARTY BUSINESS INTERACTION ROLE
DWR_PRTY_CNCT_INFO	PARTY CONTACT INFORMATION
DWR_PRTY_DEMOG	PARTY DEMOGRAPHIC
DWR_PRTY_DEMOG_VAL	PARTY DEMOGRAPHIC VALUE
DWR_PRTY_GEO_ENT_ASGN	PARTY GEOGRAPHY ENTITY ASSIGNMENT
DWR_PRTY_ID	PARTY IDENTIFICATION
DWR_PRTY_LANG_CAPBLTY	PARTY LANGUAGE CAPABILITY
DWR_PRTY_MKT_SGMNT_ASGN	PARTY MARKET SEGMENT ASSIGNMENT
DWR_PRTY_NAME	PARTY NAME
DWR_PRTY_PRFL	PARTY PROFILE
DWR_PRTY_PRFL_CHAR_ASGN	PARTY PROFILE CHAR ASSIGNMENT
DWR_PRTY_PRFL_TYP_CHAR	PARTY PROFILE TYPE CHARACTERISTIC
DWR_PRTY_PRFL_TYP_CHAR_VAL	PARTY PROFILE TYPE CHARACTERISTIC VALUE
DWR_PRTY_PROD_SBRP_ASGN	PARTY PRODUCT SUBSCRIPTION ASSIGNMENT
DWR_PRTY_RL_ASGN	PARTY ROLE ASSIGNMENT
DWR_PRTY_RL_CTGRY_ASGN	PARTY ROLE CATEGORY ASSIGNMENT
DWR_PRTY_RL_OS_PRCS_ASGN	PARTY ROLE OS PROCESS ASSIGNMENT
DWR_PRTY_RL_PRFL_ASGN	PARTY ROLE PROFILE ASSIGNMENT
DWR_PRTY_RL_STAT	PARTY ROLE STATUS
DWR_PRTY_SIM_CARD_ASGN	PARTY SIM CARD ASSIGNMENT
DWR_PRTY_SKILL	PARTY SKILL
DWR_PRTY_SRVC_ASGN	PARTY SERVICE ASSIGNMENT
DWR_PTS_EXPRY_BASIS	POINTS EXPIRY BASIS
DWR_PV_BIT_STRING_VAL	PV BIT STRING VALUE
DWR_PV_BOLEN_VAL	PV BOOLEAN VALUE
DWR_PV_INTEGER_VAL	PV INTEGER VALUE
DWR_PV_IP_ADDR_VAL	PV IP ADDRESS VALUE
DWR_PV_MAC_ADDR_VAL	PV MAC ADDRESS VALUE
DWR_PV_STRING_VAL	PV STRING VALUE
DWR_PVAR_1QCOS_VARBLE	PVAR 1QCOS VARIABLE
DWR_PVAR_BIT_STRING_VARBLE	PVAR BIT STRING VARIABLE
DWR_PVAR_DN_VARBLE	PVAR DN VARIABLE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_PVAR_DSCP_VARBLE	PVAR DSCP VARIABLE
DWR_PVAR_ETHER_TYP_VARBLE	PVAR ETHER TYPE VARIABLE
DWR_PVAR_IPTOS_VARBLE	PVAR IPTOS VARIABLE
DWR_PVAR_IPV4_VARBLE	PVAR IPV4 VARIABLE
DWR_PVAR_IPV6_FLOW_ID_VARBLE	PVAR IPV6 FLOW VARIABLE
DWR_PVAR_IPV6_VARBLE	PVAR IPV6 VARIABLE
DWR_PVAR_IPVRSN_VARBLE	PVAR IPVERSION VARIABLE
DWR_PVAR_IP_PROTCL_VARBLE	PVAR IP PROTOCOL VARIABLE
DWR_PVAR_MAC_VARBLE	PVAR MAC VARIABLE
DWR_PVAR_PRT_VARBLE	PVAR PORT VARIABLE
DWR_PVAR_STRING_VARBLE	PVAR STRING VARIABLE
DWR_PVAR_VLAN_VARBLE	PVAR VLAN VARIABLE
DWR_PYMT_CHNL	PAYMENT CHANNEL
DWR_PYMT_PLN	PAYMENT PLAN
DWR_PYTV_SRVC	PAY TV SERVICE
DWR_QOS_SRVC	QOS SERVICE
DWR_QOS_SRVC_RLTN	QOS SERVICE RELATIONSHIP
DWR_QUE_SRVC	QUEUE SERVICE
DWR_QTR_HR	QUARTER HOUR
DWR_QTR_TODATE_TRANS	QUARTER TO DATE TRANSFORMATION
DWR_QTR_TRANS	QUARTER TRANSFORMATION
DWR_RACK	RACK
DWR_RED_DRPPR_SRVC	RED DROPPER SERVICE
DWR_RED_SRVC_ELMNT	RED SERVICE ELEMENT
DWR_REFERRING_CTGRY	REFERRING CATEGORY
DWR_REFERRING_CTGRY_LVL	REFERRING CATEGORY LEVEL
DWR_REFERRING_URL	REFERRING URL
DWR_RF_CARRIER	RF CARRIER
DWR_RFS_SPEC_VRSN_DTL	RFS SPEC VERSION DETAIL
DWR_RL	ROLE
DWR_RLS_HRCHY	ROLES HIERARCHY
DWR_RND_RBIN_SCHDLNG_SRVC	ROUND ROBIN SCHEDULING SERVICE
DWR_RNGTN	RINGTONE
DWR_ROOT_ENT	ROOT ENTITY
DWR_ROUTED_PROTCL	ROUTED PROTOCOL
DWR_ROUTER	ROUTER
DWR_RPLCMT_SET	REPLACEMENT SET

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_RSCE	RESOURCE
DWR_RSCE_CHAR	RESOURCE CHARACTERISTIC
DWR_RSCE_CHAR_ASGN	RESOURCE CHARACTERISTIC ASSIGNMENT
DWR_RSCE_CHAR_RLTN	RESOURCE CHARACTERISTIC RELATIONSHIP
DWR_RSCE_CHAR_VAL	RESOURCE CHARACTERISTIC VALUE
DWR_RSCE_CHAR_VAL_ASGN	RESOURCE CHARACTERISTIC VALUE ASSIGNMENT
DWR_RSCE_CHAR_VAL_RLTN	RESOURCE CHARACTERISTIC VALUE RELATIONSHIP
DWR_RSCE_FCNG_SRVC	RESOURCE FACING SERVICE
DWR_RSCE_FCNG_SRVC_RL	RESOURCE FACING SERVICE ROLE
DWR_RSCE_FCNG_SRVC_SPEC	RESOURCE FACING SERVICE SPECIFICATION
DWR_RSCE_FCNG_SRVC_SPEC_ATMC	RESOURCE FACING SERVICE SPECIFICATION ATOMIC
DWR_RSCE_FCNG_SRVC_SPEC_CMPST	RESOURCE FACING SERVICE SPECIFICATION COMPOSITE
DWR_RSCE_FCNG_SRVC_SPEC_RL	RESOURCE FACING SERVICE SPECIFICATION ROLE
DWR_RSCE_FCNG_SRVC_SPEC_VRSN	RESOURCE FACING SERVICE SPEC VERSION
DWR_RSCE_INVLMNT_RL	RESOURCE INVOLVEMENT ROLE
DWR_RSCE_PRFMNC_SPEC	RESOURCE PERFORMANCE SPEC
DWR_RSCE_PRT	RESOURCE PORT
DWR_RSCE_PRTY_ASSOCTN	RESOURCE PARTY ASSOCIATION
DWR_RSCE_PRTY_MGMT	RESOURCE PARTY MANAGEMENT
DWR_RSCE_RL	RESOURCE ROLE
DWR_RSCE_RL_ASGN	RESOURCE ROLE ASSIGNMENT
DWR_RSCE_RL_PRTY_ASGN	RESOURCE ROLE PARTY ASSIGNMENT
DWR_RSCE_RL_PRTY_RL_DTLS	RESOURCE ROLE PARTY ROLE DETAILS
DWR_RSCE_RL_SPEC	RESOURCE ROLE SPECIFICATION
DWR_RSCE_RLTN	RESOURCE RELATIONSHIP
DWR_RSCE_SPEC	RESOURCE SPECIFICATION
DWR_RSCE_SPEC_CHAR	RESOURCE SPECIFICATION CHARACTERISTIC
DWR_RSCE_SPEC_CHAR_ASGN	RESOURCE SPECIFICATION CHARACTERISTIC ASSIGNMENT
DWR_RSCE_SPEC_CHAR_RLTN	RESOURCE SPECIFICATION CHARACTERISTIC RELATIONSHIP
DWR_RSCE_SPEC_CHAR_VAL	RESOURCE SPECIFICATION CHARACTERISTIC VALUE
DWR_RSCE_SPEC_CHAR_VAL_ASGN	RESOURCE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT
DWR_RSCE_SPEC_CHAR_VAL_RLTN	RESOURCE SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
DWR_RSCE_SPEC_PERF_RL	RESOURCE SPECIFICATION PERF ROLE
DWR_RSCE_SPEC_VRSN	RESOURCE SPECIFICATION VERSION
DWR_RSCE_SPEC_VRSN_USG	RESOURCE SPECIFICATION VERSION USAGE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_RTL_STORE	RETAIL STORE
DWR_RTL_TCHPNT	RETAIL TOUCHPOINT
DWR_RUTNG_DVC	ROUTING DEVICE
DWR_RUTNG_PROTCL	ROUTING PROTOCOL
DWR_RUTNG_RL	ROUTING ROLE
DWR_SB_NTWK	SUB NETWORK
DWR_SBRP_RSCE_RL_ASGN	SUBSCRIPTION RESOURCE ROLE ASSIGNMENT
DWR_SBRP_SRVC_ASGN	SUBSCRIPTION SERVICE ASSIGNMENT
DWR_SBRP_SRVC_CLASS_ASGN	SUBSCRIPTION SERVICE CLASS ASSIGNMENT
DWR_SCHDLNG_SRVC	SCHEDULING SERVICE
DWR_SCHDLNG_SRVC_ATMC	SCHEDULING SERVICE ATOMIC
DWR_SCHDLNG_SRVC_CMPST	SCHEDULING SERVICE COMPOSITE
DWR_SCND	SECOND
DWR_SCRPT	SCRIPT
DWR_SCRPT_QUES	SCRIPT QUESTION
DWR_SEARCH	SEARCH
DWR_SECURE_HLDR	SECURE HOLDER
DWR_SERVER	SERVER
DWR_SERVER_FARM	SERVER FARM
DWR_SET_TOP_BOX	SET TOP BOX
DWR_SET_TOP_BOX_MDL	SET TOP BOX MODEL
DWR_SGMNT_CRTRA	SEGMENT CRITERIA
DWR_SGNLNG_PROTCL	SIGNALING PROTOCOL
DWR_SHELF	SHELF
DWR_SHPR_SRVC	SHAPER SERVICE
DWR_SIC_ASGN	SIC ASSIGNMENT
DWR_SIC_DIV	SIC DIVISION
DWR_SIM_CARD	SIM CARD
DWR_SIM_CARD_ACCS_MTHD_ASGN	SIM CARD ACCESS METHOD ASSIGNMENT
DWR_SIM_CARD_HNDST_ASGN	SIM CARD HANDSET ASSIGNMENT
DWR_SIM_CARD_PROD_SBRP_ASGN	SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT
DWR_SITE	SITE
DWR_SITE_INTRFC_RL	SITE INTERFACE ROLE
DWR_SITE_RL	SITE ROLE
DWR_SKU_ITEM	SKU ITEM
DWR_SL_CHNL	SALES CHANNEL
DWR_SL_CHNL_RPRSTV	SALES CHANNEL REPRESENTATIVE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_SL_CMISN_PLN	SALES COMMISSION PLAN
DWR_SL_CMISN_PLN_DTL	SALES COMMISSION PLAN DETAIL
DWR_SLNG_LOC	SELLING LOCATION
DWR_SLT	SLOT
DWR_SLT_RLTN	SLOT RELATIONSHIP
DWR_SMS_RTNG_PLN	SMS RATING PLAN
DWR_SMS_SRVC	SMS SERVICE
DWR_SOC_JB	SOC JOB
DWR_SOC_JB_CTGRY	SOC JOB CATEGORY
DWR_SOC_JB_GRP	SOC JOB GROUP
DWR_SOC_JB_MJR_GRP	SOC JOB MAJOR GROUP
DWR_SOFTWARE	SOFTWARE
DWR_SOFTWARE_ATMC	SOFTWARE ATOMIC
DWR_SOFTWARE_CMND	SOFTWARE COMMAND
DWR_SOFTWARE_CMPST	SOFTWARE COMPOSITE
DWR_SOFTWARE_FTR_SETS	SOFTWARE FEATURE SETS
DWR_SOFTWARE_OS_RLTN	SOFTWARE OS RELATIONSHIP
DWR_SPEC	SPECIFICATION
DWR_SPEC_RL	SPECIFICATION ROLE
DWR_SPLMNTR_SRVC	SUPPLEMENTARY SERVICE
DWR_SPNM_OTHR_PRTY_NBR	SPNM OTHER PARTY NUMBER
DWR_SPTRUM_COVRG_AREA	SPECTRUM COVERAGE AREA
DWR_SRC_SYS	SOURCE SYSTEM
DWR_SRC_SYS_KEY_MAPPING	SOURCE SYSTEM KEY MAPPING
DWR_SRSPC_CHRVL_RESPC_CHRVL_AN	SERVICE SPECIFICATION CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT
DWR_SRVC	SERVICE
DWR_SRVC_ADDR_LOC_ASGN	SERVICE ADDRESS LOCATION ASSIGNMENT
DWR_SRVC_BNDL	SERVICE BUNDLE
DWR_SRVC_BNDL_SPEC	SERVICE BUNDLE SPECIFICATION
DWR_SRVC_BNDL_SPEC_ATMC	SERVICE BUNDLE SPECIFICATION ATOMIC
DWR_SRVC_BNDL_SPEC_CMPST	SERVICE BUNDLE SPECIFICATION COMPOSITE
DWR_SRVC_CHAR_VAL	SERVICE CHARACTERISTIC VALUE
DWR_SRVC_CHAR_VAL_RLTN	SERVICE CHARACTERISTIC VALUE RELATIONSHIP
DWR_SRVC_CHRVL_PROD_CHRVL_ASGN	SERVICE CHARACTERISTIC VALUE PRODUCT CHARACTERISTIC VALUE ASSIGNMENT
DWR_SRVC_COVRG_AREA	SERVICE COVERAGE AREA
DWR_SRVC_COVRG_GEO_DTL	SERVICE COVERAGE GEO DETAIL

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_SRVC_DPNDCY	SERVICE DEPENDENCY
DWR_SRVC_DVC_INTRFC_ASGN	SERVICE DEVICE INTERFACE ASSIGNMENT
DWR_SRVC_EQPMNT_ASGN	SERVICE EQUIPMENT ASSIGNMENT
DWR_SRVC_LR_DPNDCY	SERVICE LR DEPENDENCY
DWR_SRVC_LVL_AGRMNT	SERVICE LEVEL AGREEMENT
DWR_SRVC_LVL_AGRMNT_ITEM	SERVICE LEVEL AGREEMENT ITEM
DWR_SRVC_LVL_AGRMNT_RLTN	SERVICE LEVEL AGREEMENT RELATIONSHIP
DWR_SRVC_LVL_OBJCTV	SERVICE LEVEL OBJECTIVE
DWR_SRVC_LVL_SPEC_APLCBLTY	SERVICE LEVEL SPEC APPLICABILITY
DWR_SRVC_LVL_SPEC_CNSEQ	SERVICE LEVEL SPEC CONSEQUENCE
DWR_SRVC_LVL_SPEC_PRMTR	SERVICE LEVEL SPEC PARAMETER
DWR_SRVC_PKG	SERVICE PACKAGE
DWR_SRVC_PKG_BNDL_DTL	SERVICE PACKAGE BUNDLE DETAIL
DWR_SRVC_PKG_SPEC	SERVICE PACKAGE SPECIFICATION
DWR_SRVC_PKG_SPEC_ATMC	SERVICE PACKAGE SPECIFICATION ATOMIC
DWR_SRVC_PKG_SPEC_CMPST	SERVICE PACKAGE SPECIFICATION COMPOSITE
DWR_SRVC_PR_DPNDCY	SERVICE PR DEPENDENCY
DWR_SRVC_PRBLM_CHAR	SERVICE PROBLEM CHARACTERISTIC
DWR_SRVC_PRBLM_CHAR_VAL	SERVICE PROBLEM CHARACTERISTIC VALUE
DWR_SRVC_PRFMNC_SPEC	SERVICE PERFORMANCE SPEC
DWR_SRVC_PRTY_MGMT_HIST	SERVICE PARTY MANAGEMENT HISTORY
DWR_SRVC_RL	SERVICE ROLE
DWR_SRVC_RSCE_ASGN	SERVICE RESOURCE ASSIGNMENT
DWR_SRVC_SPEC	SERVICE SPECIFICATION
DWR_SRVC_SPEC_ATMC	SERVICE SPECIFICATION ATOMIC
DWR_SRVC_SPEC_CHAR	SERVICE SPECIFICATION CHARACTERISTIC
DWR_SRVC_SPEC_CHAR_RLTN	SERVICE SPECIFICATION CHARACTERISTIC RELATIONSHIP
DWR_SRVC_SPEC_CHAR_USE	SERVICE SPECIFICATION CHAR USE
DWR_SRVC_SPEC_CHAR_VAL	SERVICE SPECIFICATION CHARACTERISTIC VALUE
DWR_SRVC_SPEC_CHAR_VAL_ASGN	SERVICE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT
DWR_SRVC_SPEC_CHAR_VAL_RLTN	SERVICE SPECIFICATION CHAR VALUE RELATIONSHIP
DWR_SRVC_SPEC_CHAR_VAL_USE	SERVICE SPECIFICATION CHAR VALUE USE
DWR_SRVC_SPEC_CMPST	SERVICE SPECIFICATION COMPOSITE
DWR_SRVC_SPEC_PROD_SPEC_RLTN	SERVICE SPECIFICATION PRODUCT SPECIFICATION RELATIONSHIP
DWR_SRVC_SPEC_RLTN	SERVICE SPECIFICATION RELATIONSHIP
DWR_SRVC_SPEC_RL	SERVICE SPECIFICATION ROLE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_SRVC_SPEC_RSCE_SPEC_RLTN	SERVICE SPECIFICATION RESOURCE SPEC RELATIONSHIP
DWR_SRVC_SPEC_VRSN	SERVICE SPECIFICATION VERSION
DWR_SRVC_UTLZTN_DTL	SERVICE UTILIZATION DETAIL
DWR_SRVSPC_CHR_RSCESPC_CHR_AGN	SERVICE SPECIFICATION CHAR RESOURCE SPEC CHAR ASSIGNMENT
DWR_STNDRD_MRKR_SRVC	STANDARD MARKER SERVICE
DWR_STRCT_SCHDLNG_SRVC	STRICT SCHEDULING SERVICE
DWR_STRT_NAME	STREET NAME
DWR_STRT_SGMNT	STREET SEGMENT
DWR_STRT_SGMNT_ADDR_ASGN	STREET SEGMENT ADDRESS ASSIGNMENT
DWR_STTSTCL_ENT	STATISTICAL ENTITY
DWR_SURVEY	SURVEY
DWR_SWTCH	SWITCH
DWR_SWTCH_CAPBLTY	SWITCH CAPABILITY
DWR_SWTCH_CMMND	SWITCH COMMAND
DWR_SWTCH_RUTNG_DVC_ASGN	SWITCH ROUTING DEVICE ASSIGNMENT
DWR_SWTCHNG_PROTCL	SWITCHING PROTOCOL
DWR_SWTCHNG_RL	SWITCHING ROLE
DWR_SYMBLGY	SYMBOLOGY
DWR_TASK	TASK
DWR_TAX_AUTH	TAX AUTHORITY
DWR_TAX_EXMPT	TAX EXEMPT
DWR_TEMPLATE_SRVC_LVL_SPEC	TEMPLATE SERVICE LEVEL SPEC
DWR_TIME_BND	TIME BAND
DWR_TIME_SLT	TIME SLOT
DWR_TIME_STNDRD_BY_DAY	TIME STANDARD BY DAY
DWR_TIME_STNDRD_BY_WK	TIME STANDARD BY WEEK
DWR_TIME_TOT	TIME TOTAL
DWR_TMNT_PNT	TERMINATION POINT
DWR_TNDR	TENDER
DWR_TOKN_BCKT	TOKEN BUCKET
DWR_TOS_SRVC	TOS SERVICE
DWR_TRAIL	TRAIL
DWR_TRAIL_TMNT_PNT	TRAIL TERMINATION POINT
DWR_TRFC_CNDITNNG_SRVC	TRAFFIC CONDITIONING SERVICE
DWR_TRFC_ID_SRVC	TRAFFIC IDENTIFICATION SERVICE
DWR_TRFC_MTCH_CRTRA	TRAFFIC MATCH CRITERIA

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_TRGT_ACCS_MTHD	TARGET ACCESS METHOD
DWR_TRGT_ACCT	TARGET ACCOUNT
DWR_TRGT_AGRMNT	TARGET AGREEMENT
DWR_TRGT_GEO_AREA	TARGET GEOGRAPHY AREA
DWR_TRGT_MKT_SGMNT	TARGET MARKET SEGMENT
DWR_TV_CHNL	TV CHANNEL
DWR_UDR_EVT_CHAR	UDR EVENT CHARACTERISTIC
DWR_UDR_EVT_CHAR_RLTN	UDR EVENT SPECIFICATION CHARACTERISTIC RELATIONSHIP
DWR_UDR_EVT_CHAR_VAL	UDR EVENT CHARACTERISTIC VALUE
DWR_UDR_EVT_SPEC	UDR EVENT SPECIFICATION
DWR_UDR_EVT_SPEC_CHAR	UDR EVENT SPECIFICATION CHARACTERISTIC
DWR_UDR_EVT_SPEC_CHAR_USE	UDR EVENT SPECIFICATION CHARACTERISTIC USE
DWR_UDR_EVT_SPEC_CHAR_VAL	UDR EVENT SPECIFICATION CHARACTERISTIC VALUE
DWR_UDR_EVT_SPEC_CHAR_VAL_RLTN	UDR EVENT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
DWR_UDR_EVT_SPEC_CHAR_VAL_USE	UDR EVENT SPECIFICATION CHARACTERISTIC VALUE USE
DWR_UDR_EVT_SPEC_RLTN	UDR EVENT SPECIFICATION RELATIONSHIP
DWR_UDR_EVT_SPEC_VRSN	UDR EVENT SPECIFICATION VERSION
DWR_UDR_EVT_TYP_VRSN	UDR EVENT TYPE VERSION
DWR_URBN_PRPTY_ADDR	URBAN PROPERTY ADDRESS
DWR_USER	USER
DWR_VAL_ADD_SRVC	VALUE ADDED SERVICE
DWR_VAL_CSTM	VALUE CUSTOM
DWR_VAL_STNDRD	VALUE STANDARD
DWR_VARBLE_CSTM	VARIABLE CUSTOM
DWR_VARBLE_STNDRD	VARIABLE STANDARD
DWR_VAS_SBRP	VAS SUBSCRIPTION
DWR_VHCL	VEHICLE
DWR_VISITOR	VISITOR
DWR_VNDR	VENDOR
DWR_VNDR_AGRMNT	VENDOR AGREEMENT
DWR_VNDR_FCTR_CMPNY_ASGN	VENDOR FACTOR COMPANY ASSIGNMENT
DWR_VNDR_RTNG	VENDOR RATING
DWR_VNDR_SITE	VENDOR SITE
DWR_VNDR_SITE_COURIER_ASGN	VENDOR SITE COURIER ASSIGNMENT
DWR_VOI_MSG_SRVC	VOICE MESSAGE SERVICE
DWR_VPN_LGICL_DVC_RL	VPN LOGICAL DEVICE ROLE

Table 4–3 (Cont.) Reference Tables

Table Name	More Information
DWR_VPN_SRVC	VPN SERVICE
DWR_VRTL_TEAM	VIRTUAL TEAM
DWR_WAN_PROTCL	WAN PROTOCOL
DWR_WEATHR_CNDTN	WEATHER CONDITION
DWR_WBSITE	WEBSITE
DWR_WBSITE_USER	WEBSITE USER
DWR_WEB_PG	WEB PAGE
DWR_WEB_PG_CNTNT	WEB PAGE CONTENT
DWR_WK_TODATE_TRANS	WEEK TODATE TRANSFORMATION
DWR_WK_TRANS	WEEK TRANSFORMATION
DWR_WKDAY	WEEKDAY
DWR_WRLS_RSCE	WIRELESS RESOURCE
DWR_WRLS_RTNG_PLN	WIRELESS RATING PLAN
DWR_WRLS_SPTRUM	WIRELESS SPECTRUM
DWR_WRLS_SRVC	WIRELESS SERVICE
DWR_WTD_FAIR_QUENG_SRVC	WEIGHTED FAIR QUEUING SERVICE
DWR_WTD_RND_RBIN_SCHDLNG_SRVC	WEIGHTED ROUND ROBIN SCHEDULING SERVICE
DWR_YR_TRANS	YEAR TRANSFORMATION

Lookup Tables

Table 4–4 briefly describes the Lookup tables in Oracle Communications Data Model.

Table 4–4 Lookup Tables

Table Name	More Information
DWL_ACCS_MTHD_ASGN_TYP	ACCESS METHOD ASSIGNMENT TYPE
DWL_ACCS_MTHD_ELMNT_TYP	ACCESS METHOD ELEMENT TYPE
DWL_ACCS_MTHD_PRTY_ASGN_TYP	ACCESS METHOD PARTY ASSIGNMENT TYPE
DWL_ACCS_MTHD_STAT_RSN	ACCESS METHOD STATUS REASON
DWL_ACCS_MTHD_STAT_TYP	ACCESS METHOD STATUS TYPE
DWL_ACCS_MTHD_TYP	ACCESS METHOD TYPE
DWL_ACCT_ADJ_RSN	ACCOUNT ADJUSTMENT REASON
DWL_ACCT_ASGN_RSN	ACCOUNT ASSIGNMENT REASON
DWL_ACCT_ASGN_TYP	ACCOUNT ASSIGNMENT TYPE
DWL_ACCT_BAL_ADJ_TYP	ACCOUNT BALANCE ADJUSTMENT TYPE
DWL_ACCT_BAL_TYP	ACCOUNT BALANCE TYPE
DWL_ACCT_CYCL	ACCOUNTING CYCLE
DWL_ACCT_EVT_TYP	ACCOUNT EVENT TYPE
DWL_ACCT_ITEM_CTGRY	ACCOUNTING ITEM CATEGORY

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_ACCT_PROD_SBRP_ASGN_RSN	ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT REASON
DWL_ACCT_PYMT_MTHD_STAT_RSN	ACCOUNT PAYMENT METHOD STATUS REASON
DWL_ACCT_PYMT_MTHD_STAT_TYP	ACCOUNT PAYMENT METHOD STATUS TYPE
DWL_ACCT_RFND_RSN	ACCOUNT REFUND REASON
DWL_ACCT_RL_TYP	ACCOUNT ROLE TYPE
DWL_ACCT_STAT_RSN	ACCOUNT STATUS REASON
DWL_ACCT_STAT_TYP	ACCOUNT STATUS TYPE
DWL_ACCT_TYP	ACCOUNT TYPE
DWL_ACTVTY_CTGRY	ACTIVITY CATEGORY
DWL_ACTVTY_RSLT_TYP	ACTIVITY RESULT TYPE
DWL_ACTVTY_TYP	ACTIVITY TYPE
DWL_ADDR_RLTD_RSN	ADDRESS RELATED REASON
DWL_ADDR_RLTD_TYP	ADDRESS RELATED TYPE
DWL_ADDR_STAT	ADDRESS STATUS
DWL_ADDR_STAT_RSN	ADDRESS STATUS REASON
DWL_ADDR_TYP	ADDRESS TYPE
DWL_ADDR_VRFY_TYP	ADDRESS VERIFICATION TYPE
DWL_ADJ_TYP	ADJUSTMENT TYPE
DWL_AGE_BND	AGE BAND
DWL_AGE_GRP	AGE GROUP
DWL_AGE_ON_NET_BND	AGE ON NET BAND
DWL_AGRMNT_ASGN_RSN	AGREEMENT ASSIGNMENT REASON
DWL_AGRMNT_ASGN_TYP	AGREEMENT ASSIGNMENT TYPE
DWL_AGRMNT_CHNG_INTTR_TYP	AGREEMENT CHANGE INITIATOR TYPE
DWL_AGRMNT_CHNG_RSN	AGREEMENT CHANGE REASON
DWL_AGRMNT_CHNG_TYP	AGREEMENT CHANGE TYPE
DWL_AGRMNT_STAT_RSN	AGREEMENT STATUS REASON
DWL_AGRMNT_STAT_TYP	AGREEMENT STATUS TYPE
DWL_AGRMNT_TERM_TYP	AGREEMENT TERM TYPE
DWL_AGRMNT_TYP	AGREEMENT TYPE
DWL_APNMNT_TYP	APPOINTMENT TYPE
DWL_ARPU_BND	ARPU BAND
DWL_ASSET_TYP	ASSET TYPE
DWL_ATHRZTN_MTHD	AUTHORIZATION METHOD
DWL_AWRD_LVL	AWARD LEVEL
DWL_BARNG_RSN	BARING REASON
DWL_BER_FER_TYP	BER FER TYPE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_BLLG_FRQNCY	BILLING FREQUENCY
DWL_BLLG_OCCRNCE_TYP	BILLING OCCURRENCE TYPE
DWL_BLLG_PRD	BILLING PERIOD
DWL_BLLG_STAT_CTGRY	BILLING STATUS CATEGORY
DWL_BLLG_STAT_RSN	BILLING STATUS REASON
DWL_BLLG_STAT_TYP	BILLING STATUS TYPE
DWL_BROWSER_TYP	BROWSER TYPE
DWL_BSNS_INTRACN_ASGN_TYP	BUSINESS INTERACTION ASSIGNMENT TYPE
DWL_BSNS_INTRACN_CHAR_TYP	BUSINESS INTERACTION CHARACTERISTIC TYPE
DWL_BSNS_INTRACN_STAT_RSN	BUSINESS INTERACTION STATUS REASON
DWL_BSNS_LEGAL_STAT	BUSINESS LEGAL STATUS
DWL_CALL_CNTR_AGNT_TYP	CALL CENTER AGENT TYPE
DWL_CALL_CNTR_CASE_SUB_TYP	CALL CENTER CASE SUB TYPE
DWL_CALL_CNTR_CASE_TTL	CALL CENTER CASE TITLE
DWL_CALL_CNTR_CASE_TYP	CALL CENTER CASE TYPE
DWL_CALL_CTGRY	CALL CATEGORY
DWL_CALL_DRCTN	CALL DIRECTION
DWL_CALL_OTHR_TYP	CALL OTHER TYPE
DWL_CALL_RCYLD_RSN	CALL RECYCLED REASON
DWL_CALL_RUTNG_TYP	CALL ROUTING TYPE
DWL_CALL_SRCHRG	CALL SURCHARGE
DWL_CALL_SRVC_TYP	CALL SERVICE TYPE
DWL_CALL_SUCC_FAIL_TYP	CALL SUCCESS FAILURE TYPE
DWL_CALL_TMNT_RSN	CALL TERMINATION REASON
DWL_CALL_TYP	CALL TYPE
DWL_CARD_HLDR_VRFY_TYP	CARD HOLDER VERIFICATION TYPE
DWL_CARD_TYP	CARD TYPE
DWL_CELL_OUTAGE_RSN	CELL OUTAGE REASON
DWL_CELL_SITE_TYP	CELL SITE TYPE
DWL_CELL_TYP	CELL TYPE
DWL_CHNG_PPSD_BY_TYP	CHANGE PROPOSED BY TYPE
DWL_CHNL_TYP	CHANNEL TYPE
DWL_CMISN_TYP	COMMISSION TYPE
DWL_CMPGN_CHNL_TYP	CAMPAIGN CHANNEL TYPE
DWL_CMPGN_PRPS_TYP	CAMPAIGN PURPOSE TYPE
DWL_CMPGN_STAT	CAMPAIGN STATUS
DWL_CMPGN_TYP	CAMPAIGN TYPE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_CMPND_RSCE_DTL_TYP	COMPOUND RESOURCE DETAIL TYPE
DWL_CMPNSATRY_RSN	COMPENSATORY REASON
DWL_CMPST_PROD_SPEC_CHRG_TYP	COMPOSITE PRODUCT SPECIFICATION CHARGE TYPE
DWL_CMPST_PROD_SPEC_TYP	COMPOSITE PRODUCT SPECIFICATION TYPE
DWL_CNCT_LST_CHNG_RSN	CONTACT LIST CHANGE REASON
DWL_CNCT_LST_RECRNC_TYP	CONTACT LIST RECURRENCE TYPE
DWL_CNCT_RLS	CONTACT ROLES
DWL_CNTCT_MEDIUM	CONTACT MEDIUM
DWL_CNTNT_PRCNG_TYP	CONTENT PRICING TYPE
DWL_CNTNT_TYP	CONTENT TYPE
DWL_COLLCTN_TYP	COLLECTION TYPE
DWL_COST_RSN	COST REASON
DWL_COST_SUBTYP	COST SUBTYPE
DWL_COST_TYP	COST TYPE
DWL_CPN_SCAN	COUPON SCAN
DWL_CPN_TYP	COUPON TYPE
DWL_CRCUT_CTGRY	CIRCUIT CATEGORY
DWL_CRCUT_RNTL_EVT_TYP	CIRCUIT RENTAL EVENT TYPE
DWL_CRCUT_TYP	CIRCUIT TYPE
DWL_CRNCY	CURRENCY
DWL_CRTFCT_TYP	CERTIFICATE TYPE
DWL_CUST_CLASS	CUSTOMER CLASS
DWL_CUST_CLSTR_TYP	CUSTOMER CLUSTER TYPE
DWL_CUST_GRP	CUSTOMER GROUP
DWL_CUST_OCCSN_TYP	CUSTOMER OCCASION TYPE
DWL_CUST_ORDR_PRIORITY_TYP	CUSTOMER ORDER PRIORITY TYPE
DWL_CUST_ORDR_STATE_CHNG_RSN	CUSTOMER ORDER STATE CHANGE REASON
DWL_CUST_RLTN_TYP	CUSTOMER RELATIONSHIP TYPE
DWL_CUST_RVN_BND	CUSTOMER REVENUE BAND
DWL_CUST_RVN_TYP	CUSTOMER REVENUE TYPE
DWL_CUST_STAT_RSN	CUSTOMER STATUS REASON
DWL_CUST_TYP	CUSTOMER TYPE
DWL_DEBT_AGNG_BND	DEBT AGING BAND
DWL_DOC_CNDTN_TYP	DOCUMENT CONDITION TYPE
DWL_DOC_TYP	DOCUMENT TYPE
DWL_DOC_TYP_GRP	DOCUMENT TYPE GROUP
DWL_DOMAIN_TYP	DOMAIN TYPE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_DRCT_DEBIT_STAT_RSN	DIRECT DEBIT STATUS REASON
DWL_DSPSTN_TYP	DISPOSITION TYPE
DWL_DSTN_TYP	DESTINATION TYPE
DWL_DSTNC_BND	DISTANCE BAND
DWL_DVRT_RTRV_RSN	DIVERT RETRIEVE REASON
DWL_DVRT_RTRV_TYP	DIVERT RETRIEVE TYPE
DWL_EDU	EDUCATION
DWL_EMP_DESIG	EMPLOYEE DESIGNATION
DWL_EMP_JB_RL_TYP	EMPLOYEE JOB ROLE TYPE
DWL_EMP_TYP	EMPLOYEE TYPE
DWL_ENRL_CHNL	ENROLL CHANNEL
DWL_ENRL_TYP	ENROLL TYPE
DWL_ENTRY_MTHD	ENTRY METHOD
DWL_ENV_TYP	ENVIRONMENT TYPE
DWL_EQPMNT_INSTNC_STAT_TYP	EQUIPMENT INSTANCE STATUS TYPE
DWL_EVT_ASGN_RSN	EVENT ASSIGNMENT REASON
DWL_EVT_ASGN_TYP	EVENT ASSIGNMENT TYPE
DWL_EVT_CLASS	EVENT CLASS
DWL_EVT_CTGRY	EVENT CATEGORY
DWL_EVT_PRTY_RL	EVENT PARTY ROLE
DWL_EVT_RESPN_RSN	EVENT RESPONSE REASON
DWL_EVT_RSLT	EVENT RESULT
DWL_EVT_RSLTN	EVENT RESOLUTION
DWL_EVT_RSN	EVENT REASON
DWL_EVT_RSN_CTGRY	EVENT REASON CATEGORY
DWL_EVT_STAT_RSN	EVENT STATUS REASON
DWL_EVT_STAT_TYP	EVENT STATUS TYPE
DWL_EVT_TYP	EVENT TYPE
DWL_EXP_BASIS_TYP	EXPIRY BASIS TYPE
DWL_EXP_RPT_STATE_TYP	EXPENSE REPORT STATE TYPE
DWL_EXP_TYP	EXPENSE TYPE
DWL_EXTRNL_ORG_TYP	EXTERNAL ORGANIZATION TYPE
DWL_FLD_ACTVTY_RSLT_TYP	FIELD ACTIVITY RESULT TYPE
DWL_FLD_ACTVTY_TYP	FIELD ACTIVITY TYPE
DWL_FLT_RSLTN_TYP	FAULT RESOLUTION TYPE
DWL_FLT_TYP	FAULT TYPE
DWL_FRAUD_PRFL_CLASS	FRAUD PROFILE CLASS

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_FUEL_SL_STAT	FUEL SALE STATUS
DWL_FXBLE_CHAR_ASGN_TYP	FLEXIBLE CHARACTERISTIC ASSIGNMENT TYPE
DWL_FXBLE_CHAR_TYP	FLEXIBLE CHARACTERISTIC TYPE
DWL_GIVE_AWAY_TYP	GIVE AWAY TYPE
DWL_GL_ACCT_TYP	GL ACCOUNT TYPE
DWL_GL_JE_CTGRY	GL JOURNAL ENTRY CATEGORY
DWL_GL_SGMNT_TYP	GL SEGMENT TYPE
DWL_GNDR	GENDER
DWL_IMPRESSION_EVT_TYP	IMPRESSION EVENT TYPE
DWL_INTRACN_DRCTN	INTERACTION DIRECTION
DWL_INTRACN_NAVGTN_ITEM_TYP	INTERACTION NAVIGATION ITEM TYPE
DWL_INTRACN_NAVGTN_LVL	INTERACTION NAVIGATION LEVEL
DWL_INTRACN_NAVGTN_TYP	INTERACTION NAVIGATION TYPE
DWL_INTRACN_PRIORITY_TYP	INTERACTION PRIORITY TYPE
DWL_INTRACN_RSLT_TYP	INTERACTION RESULT TYPE
DWL_INTRACN_RSN	INTERACTION REASON
DWL_INTRACN_STAT	INTERACTION STATUS
DWL_INTRACN_STAT_TYP	INTERACTION STATUS TYPE
DWL_INTRACN_TRNSFR_RSN	INTERACTION TRANSFER REASON
DWL_INTRACN_TYP	INTERACTION TYPE
DWL_INTTV_RSLT_TYP	INITIATIVE RESULT TYPE
DWL_INTTV_TYP	INITIATIVE TYPE
DWL_INVC_ADJ_RSN	INVOICE ADJUSTMENT REASON
DWL_INVC_ADJ_TYP	INVOICE ADJUSTMENT TYPE
DWL_INVC_DISC_RSN	INVOICE DISCOUNT REASON
DWL_INVC_DISC_TYP	INVOICE DISCOUNT TYPE
DWL_INVC_DLVRY_FRMT	INVOICE DELIVERY FORMAT
DWL_INVC_DLVRY_TYP	INVOICE DELIVERY TYPE
DWL_INVC_ITEM_DTL_TYP	INVOICE ITEM DETAIL TYPE
DWL_INVC_ITEM_TYP	INVOICE ITEM TYPE
DWL_INVC_PYMT_TERM_TYP	INVOICE PAYMENT TERM TYPE
DWL_INVC_STAT	INVOICE STATUS
DWL_INVC_TYP	INVOICE TYPE
DWL_INVLMNT_RL	INVOLVEMENT ROLE
DWL_ISP_BSNS_TYP	ISP BUSINESS TYPE
DWL_ISP_TYP	ISP TYPE
DWL_ITEM_LKUP_MTHD	ITEM LOOKUP METHOD

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_ITEM_TYP	ITEM TYPE
DWL_LANG	LANGUAGE
DWL_LEGAL_PRCS_STAT_TYP	LEGAL PROCESS STATUS TYPE
DWL_LFCCL_TYP	LIFECYCLE TYPE
DWL_LND_USE_TYP	LAND USE TYPE
DWL_LOOKUP	LOOKUP
DWL_LR_STAT	LR STATUS
DWL_LTTR_TYP	LETTER TYPE
DWL_MDL_TYP	MODEL TYPE
DWL_MDTN_STAT_CTGRY	MEDIATION STATUS CATEGORY
DWL_MDTN_STAT_RSN	MEDIATION STATUS REASON
DWL_MDTN_STAT_TYP	MEDIATION STATUS TYPE
DWL_MEDIA_INTRFC_TYP	MEDIA INTERFACE TYPE
DWL_MEDIA_OBJ_TYP	MEDIA OBJECT TYPE
DWL_MNG_ACTN_TYP	MANAGE ACTION TYPE
DWL_MRKR_TYP	MARKER TYPE
DWL_MRTL_STAT	MARITAL STATUS
DWL_NBR_NTWK_TYP	NUMBER NETWORK TYPE
DWL_NP_RQST_LN_ITEM_STATE_TYP	NP REQUEST LINE ITEM STATE TYPE
DWL_NP_RQST_STATE_RSN	NP REQUEST STATE REASON
DWL_NP_RQST_STATE_TYP	NP REQUEST STATE TYPE
DWL_NP_RQST_TYP	NP REQUEST TYPE
DWL_NP_STEP	NP STEP
DWL_NTFCTN_TYP	NOTIFICATION TYPE
DWL_NTNLTY	NATIONALITY
DWL_NTWK_ADDR_TYP	NETWORK ADDRESS TYPE
DWL_NTWK_ASGN_TYP	NETWORK ASSIGNMENT TYPE
DWL_NTWK_TCHPNT_CLASS	NETWORK TOUCHPOINT CLASS
DWL_NTWK_TCHPNT_STAT	NETWORK TOUCHPOINT STATUS
DWL_NTWK_TCHPNT_TYP	NETWORK TOUCHPOINT TYPE
DWL_NTWK_TYP	NETWORK TYPE
DWL_ONOFF_NET	ON OFF NET TYPE
DWL_OPRTR_GRP	OPERATOR GROUP
DWL_OPRTR_TYP	OPERATOR TYPE
DWL_ORDR_LN_ITEM_STATE	ORDER LINE ITEM STATE
DWL_ORDR_LN_ITEM_STATE_TYP	ORDER LINE ITEM STATE TYPE
DWL_ORDR_STATE	ORDER STATE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_ORDR_STATE_TYP	ORDER STATE TYPE
DWL_ORDR_TYP	ORDER TYPE
DWL_ORG_BSNS_UNIT_TYP	ORGANIZATION BUSINESS UNIT TYPE
DWL_ORG_TYP	ORGANIZATION TYPE
DWL_PAY_CTGRY	PAY CATEGORY
DWL_PAY_TYP	PAY TYPE
DWL_PBLCTN_TYP	PUBLICATION TYPE
DWL_PCHSE_ORDR_STATE_TYP	PURCHASE ORDER STATE TYPE
DWL_PCU_OUTAGE_RSN	PACKET CONTROL UNIT OUTAGE REASON
DWL_PIT_CHAR_TYP	PIT CHARACTERISTIC TYPE
DWL_PK_OFPK_TIME	PEAK OFFPEAK TIME
DWL_POS_IDNT_TYP	POINT OF SALE IDENTITY TYPE
DWL_POS_TYP	POINT OF SALE TYPE
DWL_POSTL_SRVC_TYP	POSTAL SERVICE TYPE
DWL_PPA_CTGRY	PPA CATEGORY
DWL_PPA_DEDCTN_TYP	PPA DEDUCTION TYPE
DWL_PRBLM_ESCALATN_LVL	PROBLEM ESCALATION LEVEL
DWL_PRCS_PRMTR_OPRTR	PROCESS PARAMETER OPERATOR
DWL_PRCS_RLTN_TYP	PROCESS RELATIONSHIP TYPE
DWL_PRCS_STAT	PROCESS STATUS
DWL_PRCS_TYP	PROCESS TYPE
DWL_PREF_TYP	PREFERENCE TYPE
DWL_PRFMNC_IND_GRP_SPEC	PERFORMANCE INDICATOR GROUP SPEC
DWL_PRICE_RSN	PRICE REASON
DWL_PRICE_TYP	PRICE TYPE
DWL_PRICE_TYPE_RLTN_RSN	PRICE TYPE RELATION REASON
DWL_PRMTN_RSLT_TYP	PROMOTION RESULT TYPE
DWL_PRMTN_TERM_TYP	PROMOTION TERM TYPE
DWL_PRMTN_TYP	PROMOTION TYPE
DWL_PROD_BRND	PRODUCT BRAND
DWL_PROD_CAPBLTY_TYP	PRODUCT CAPABILITY TYPE
DWL_PROD_CHAR_TYP	PRODUCT CHARACTERISTIC TYPE
DWL_PROD_CTLG_PRSNT_TYP	PRODUCT CATALOG PRESENTATION TYPE
DWL_PROD_CTLG_TYP	PRODUCT CATALOG TYPE
DWL_PROD_LN	PRODUCT LINE
DWL_PROD_OFR_ASGN_TYP	PRODUCT OFFERING ASSIGNMENT TYPE
DWL_PROD_OFR_GRP_TYP	PRODUCT OFFERING GROUP TYPE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_PROD_OFR_PRICE_RLTN_TYP	PRODUCT OFFERING PRICE RELATIONSHIP TYPE
DWL_PROD_OFR_PRICE_TYP	PRODUCT OFFERING PRICE TYPE
DWL_PROD_OFR_RLTN_TYP	PRODUCT OFFERING RELATIONSHIP TYPE
DWL_PROD_OFR_TYP	PRODUCT OFFERING TYPE
DWL_PROD_RLTN_TYP	PRODUCT RELATIONSHIP TYPE
DWL_PROD_SBRP_ASGN_TYP	PRODUCT SUBSCRIPTION ASSIGNMENT TYPE
DWL_PROD_SBRP_EVT_TYP	PRODUCT SUBSCRIPTION EVENT TYPE
DWL_PROD_SBRP_STAT	PRODUCT SUBSCRIPTION STATUS
DWL_PROD_SBRP_STAT_CTGRY	PRODUCT SUBSCRIPTION STATUS CATEGORY
DWL_PROD_SBRP_STAT_RSN	PRODUCT SUBSCRIPTION STATUS REASON
DWL_PROD_SBRP_STAT_TYP	PRODUCT SUBSCRIPTION STATUS TYPE
DWL_PROD_SBRP_TERM_TYP	PRODUCT SUBSCRIPTION TERM TYPE
DWL_PROD_SBRP_TYP	PRODUCT SUBSCRIPTION TYPE
DWL_PROD_SPEC_ASGN_RSN	PRODUCT SPECIFICATION ASSIGNMENT REASON
DWL_PROD_SPEC_COVRG_AREA_TYP	PRODUCT SPECIFICATION COVERAGE AREA TYPE
DWL_PROD_SPEC_CTGRY	PRODUCT SPECIFICATION CATEGORY
DWL_PROD_SPEC_GRP	PRODUCT SPECIFICATION GROUP
DWL_PROD_SPEC_GRP_TYP	PRODUCT SPECIFICATION GROUP TYPE
DWL_PROD_SPEC_MGMT_RL	PRODUCT SPECIFICATION MANAGEMENT ROLE
DWL_PROD_SPEC_MGMT_RSN	PRODUCT SPECIFICATION MANAGEMENT REASON
DWL_PROD_SPEC_STAT_TYP	PRODUCT SPECIFICATION STATUS TYPE
DWL_PROD_SPEC_TYP	PRODUCT SPECIFICATION TYPE
DWL_PROD_STAT_TYP	PRODUCT STATUS TYPE
DWL_PRPD_MBL_EVT_TYP	PREPAID MOBILE EVENT TYPE
DWL_PRSNL_ID_REQD_TYP	PERSONAL ID REQUIRED TYPE
DWL_PRSPCT_PRIORITY_TYP	PROSPECT PRIORITY TYPE
DWL_PRSPCT_QLTY_SCR_TYP	PROSPECT QUALITY SCORE TYPE
DWL_PRSPCT_REJECT_RSN	PROSPECT REJECT REASON
DWL_PRTNR_PYMT_TYP	PARTNER PAYMENT TYPE
DWL_PRTNR_STLMNT_RSN	PARTNER SETTLEMENT REASON
DWL_PRTY_ACCT_ASGN_TYP	PARTY ACCOUNT ASSIGNMENT TYPE
DWL_PRTY_AGRMNT_ASGN_RL	PARTY AGREEMENT ASSIGNMENT ROLE
DWL_PRTY_AGRMNT_ASGN_TYP	PARTY AGREEMENT ASSIGNMENT TYPE
DWL_PRTY_ASGN_RSN	PARTY ASSIGNMENT REASON
DWL_PRTY_ASGN_TYP	PARTY ASSIGNMENT TYPE
DWL_PRTY_CNCT_INFO_TYP	PARTY CONTACT INFORMATION TYPE
DWL_PRTY_CNCT_LST_PRTCPTN	PARTY CONTACT LIST PARTICIPATION

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_PRTY_CNCT_LST_RL	PARTY CONTACT LIST ROLE
DWL_PRTY_EVT_TYP	PARTY EVENT TYPE
DWL_PRTY_IDNT_TYP	PARTY IDENTIFICATION TYPE
DWL_PRTY_LOC_RSN	PARTY LOCATION REASON
DWL_PRTY_LOC_TYP	PARTY LOCATION TYPE
DWL_PRTY_MGMT_RL	PARTY MANAGEMENT ROLE
DWL_PRTY_PRFL_TYP	PARTY PROFILE TYPE
DWL_PRTY_ORDR_ASGN_TYP	PARTY ORDER ASSIGNMENT TYPE
DWL_PRTY_PROD_SBRP_RL	PARTY PRODUCT SUBSCRIPTION ROLE
DWL_PRTY_RL	PARTY ROLE
DWL_PRTY_RL_CTGRY	PARTY ROLE CATEGORY
DWL_PRTY_RL_TYP	PARTY ROLE TYPE
DWL_PRTY_SGMNT_MTHD	PARTY SEGMENTATION METHOD
DWL_PRTY_SIM_CARD_RL	PARTY SIM CARD ROLE
DWL_PRTY_SRVC_ASGN_RL	PARTY SERVICE ASSIGNMENT ROLE
DWL_PRTY_SRVC_ASGN_RSN	PARTY SERVICE ASSIGNMENT REASON
DWL_PRTY_STAT_CHNG_RSN	PARTY STATUS CHANGE REASON
DWL_PRTY_STAT_CTGRY	PARTY STATUS CATEGORY
DWL_PRTY_STAT_TYP	PARTY STATUS TYPE
DWL_PRTY_TYP	PARTY TYPE
DWL_PYMT_AGNG_CLASS	PAYMENT AGING CLASS
DWL_PYMT_MTHD_TYP	PAYMENT METHOD TYPE
DWL_PYMT_TRX_TYP	PAYMENT TRANSACTION TYPE
DWL_QOS_SRVC_SPEC_TYP	QOS SERVICE SPEC TYPE
DWL_RATABLE_UNIT_MEASUREMENT	RATABLE UNIT MEASUREMENT
DWL_RDMPTN_TYP	REDEMPTION TYPE
DWL_RECHRG_RVN_SLB	RECHARGE REVENUE SLAB
DWL_RELGN	RELIGION
DWL_RELIGIOUS_AFFLTN	RELIGIOUS AFFILIATION
DWL_RFMP_MTHD	RFMP METHOD
DWL_RLTN_TYP	RELATION TYPE
DWL_RMNG_TYP	ROAMING TYPE
DWL_ROOT_ENT_TYP	ROOT ENTITY TYPE
DWL_RSCE_RLTN_TYP	RESOURCE RELATIONSHIP TYPE
DWL_RSCE_SPEC_CTGRY	RESOURCE SPECIFICATION CATEGORY
DWL_RSCE_SPEC_TYP	RESOURCE SPECIFICATION TYPE
DWL_RSCE_STATE_RSN	RESOURCE STATE REASON

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_RSCE_STATE_TYP	RESOURCE STATE TYPE
DWL_RSCE_USG_EVT_TYP	RESOURCE USAGE EVENT TYPE
DWL_RSN	REASON
DWL_RSN_CTGRY	REASON CATEGORY
DWL_RTL_TRML_STAT	RETAIL TERMINAL STATUS
DWL_RTL_TRX_LI_TYP	RETAIL TRANSACTION LINE ITEM TYPE
DWL_RTL_TYP	RETAIL TYPE
DWL_RTNG_MTHD_TYP	RATING METHOD TYPE
DWL_SBSCRP_ACTVTN_RSN	SUBSCRIBER ACTIVATION REASON
DWL_SCRPT_QUES_TYP	SCRIPT QUESTION TYPE
DWL_SCRTY_REQD_TYP	SECURITY REQUIRED TYPE
DWL_SEASON	SEASON
DWL_SERVER_STAT	SERVER STATUS
DWL_SESSION_TYP	SESSION TYPE
DWL_SGMNT_TYP	SEGMENT TYPE
DWL_SIC_ASGN_RSN	SIC ASSIGNMENT REASON
DWL_SIC_CLSFCTN	SIC CLASSIFICATION
DWL_SIC_INDSTRY_GRP	SIC INDUSTRY GROUP
DWL_SIM_CARD_ACCS_MTHD_RSN	SIM CARD ACCESS METHOD REASON
DWL_SIM_CARD_ACTVTN_RSN	SIM CARD ACTIVATION REASON
DWL_SIM_CARD_ACTVTN_TYP	SIM CARD ACTIVATION TYPE
DWL_SIM_CARD_PROD_SBRP_RSN	SIM CARD PRODUCT SUBSCRIPTION REASON
DWL_SIM_CARD_TYP	SIM CARD TYPE
DWL_SITE_TYP	SITE TYPE
DWL_SKILL_TYP	SKILL TYPE
DWL_SKU_TYP	SKU TYPE
DWL_SL_OR_RETRN_ACTN	SALE OR RETURN ACTION
DWL_SLNG_LOC_TYP	SELLING LOCATION TYPE
DWL_SPNM	SPNM
DWL_SRC_SYS_TYP	SOURCE SYSTEM TYPE
DWL_SRVC_CLASS	SERVICE CLASS
DWL_SRVC_CLASS_TYP	SERVICE CLASS TYPE
DWL_SRVC_COVRG_AREA_TYP	SERVICE COVERAGE AREA TYPE
DWL_SRVC_CTGRY	SERVICE CATEGORY
DWL_SRVC_LVL_AGRMNT_TYP	SERVICE LEVEL AGREEMENT TYPE
DWL_SRVC_LVL_SPEC	SERVICE LEVEL SPECIFICATION
DWL_SRVC_LVL_UNMET_CNSEQ_TYP	SERVICE LEVEL UNMET CONSEQUENCE TYPE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_SRVC_PRBLM_CHAR_TYP	SERVICE PROBLEM CHAR TYPE
DWL_SRVC_SPEC_TYP	SERVICE SPECIFICATION TYPE
DWL_SRVC_STAT	SERVICE STATUS
DWL_SRVC_STAT_CTGRY	SERVICE STATUS CATEGORY
DWL_SRVC_STAT_RSN	SERVICE STATUS REASON
DWL_SRVC_TYP	SERVICE TYPE
DWL_SRVC_USG_TYP	SERVICE USAGE TYPE
DWL_SUBSDY_TYP	SUBSIDY TYPE
DWL_SWOT_TYP	SWOT TYPE
DWL_SWTCH_CAPBLTY_TYP	SWITCH CAPABILITY TYPE
DWL_SWTCH_TYP	SWITCH TYPE
DWL_TAX_CTGRY	TAX CATEGORY
DWL_TCH_TYP	TCH TYPE
DWL_TECH	TECHNOLOGY
DWL_TECH_TYP	TECHNOLOGY TYPE
DWL_TIER_CARD_TYP	TIER CARD TYPE
DWL_TIME_ZN	TIME ZONE
DWL_TNDR_CLASS	TENDER CLASS
DWL_TRGT_TYP	TARGET TYPE
DWL_TRNK_GRP	TRUNK GROUP
DWL_TRNSFR_TYP	TRANSFER TYPE
DWL_TRX_CTGRY	TRANSACTION CATEGORY
DWL_TRX_TYP	TRANSACTION TYPE
DWL_UDR_EVT_CHAR_TYP	UDR EVENT CHARACTERISTIC TYPE
DWL_UDR_EVT_SPEC_TYP	UDR EVENT SPECIFICATION TYPE
DWL_UDR_EVT_STAT	UDR EVENT STATUS
DWL_UDR_EVT_TYP	UDR EVENT TYPE
DWL_UMS_ACCS_TYP	UMS ACCESS TYPE
DWL_UMS_EVT_TYP	UMS EVENT TYPE
DWL_UOM	UNIT OF MEASURE
DWL_USG_TYP	USAGE TYPE
DWL_VAL_TYP	VALUE TYPE
DWL_VISITOR_TYP	VISITOR TYPE
DWL_VNDR_CLASS	VENDOR CLASS
DWL_VNDR_RTNG_TYP	VENDOR RATING TYPE
DWL_VNDR_SITE_TYP	VENDOR SITE TYPE

Table 4–4 (Cont.) Lookup Tables

Table Name	More Information
DWL_VOL_BND	VOLUME BAND
DWL_WEB_PG_RNDRNG_TYP	WEB PAGE RENDERING TYPE
DWL_WEB_PG_TYP	WEB PAGE TYPE

Base Tables

Table 4–5 briefly describes the Base tables in Oracle Communications Data Model.

Table 4–5 Base Tables

Table Name	More Information
DWB_ACCRUAL_EVT	ACCRUAL EVENT
DWB_ACCS_MTHD_PORT_HIST	ACCESS METHOD PORTING HISTORY
DWB_ACCS_MTHD_STAT_HIST	ACCESS METHOD STATUS HISTORY
DWB_ACCT_ACCTNG_CYCL_HIST	ACCOUNT ACCOUNTING CYCLE HISTORY
DWB_ACCT_BAL	ACCOUNT BALANCE
DWB_ACCT_BAL_IMPC	ACCOUNT BALANCE IMPACT
DWB_ACCT_BLLG_OCCRNCE	ACCOUNT BILLING OCCURRENCE
DWB_ACCT_COST	ACCOUNT COST
DWB_ACCT_CRDT_LMT	ACCOUNT CREDIT LIMIT
DWB_ACCT_DEBT	ACCOUNT DEBT
DWB_ACCT_DEBT_HIST	ACCOUNT DEBT HISTORY
DWB_ACCT_MNGMNT_HIST	ACCOUNT MANAGEMENT HISTORY
DWB_ACCT_PROD_OFR_PRTCPTN_HIST	ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY
DWB_ACCT_PYMT	ACCOUNT PAYMENT
DWB_ACCT_PYMT_MTHD_STAT	ACCOUNT PAYMENT METHOD STATUS
DWB_ACCT_PYMT_PYMT_PLN_ASGN	ACCOUNT PAYMENT PAYMENT PLAN ASSIGNMENT
DWB_ACCT_STAT_HIST	ACCOUNT STATUS HISTORY
DWB_ADDR_STAT_HIST	ADDRESS STATUS HISTORY
DWB_ADHOC_COLLCTN	ADHOC COLLECTION
DWB_AGRMNT_APRVL	AGREEMENT APPROVAL
DWB_AGRMNT_APRVL_ASGN	AGREEMENT APPROVAL ASSIGNMENT
DWB_AGRMNT_STAT	AGREEMENT STATUS
DWB_AGRMNT_TERM	AGREEMENT TERM
DWB_APNMNT	APPOINTMENT
DWB_APNMNT_CLNDR	APPOINTMENT CALENDAR
DWB_ASSET_APPRSL_HIST	ASSET APPRAISAL HISTORY
DWB_ASSET_CNDTN_HIST	ASSET CONDITION HISTORY
DWB_ASSET_DEPRCN_HIST	ASSET DEPRECIATION HISTORY
DWB_BLK_LST_HIST	BLACK LIST HISTORY

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_BRDBND_USG_EVT	BROADBAND USAGE EVENT
DWB_BSNS_INTRACN	BUSINESS INTERACTION
DWB_BSNS_INTRACN_HIST	BUSINESS INTERACTION HISTORY
DWB_BSNS_INTRACN_ITEM	BUSINESS INTERACTION ITEM
DWB_BSNS_INTRACN_ITEM_PRICE	BUSINESS INTERACTION ITEM PRICE
DWB_BSNS_INTRACN_PYMT_ASGN	BUSINESS INTERACTION PAYMENT ASSIGNMENT
DWB_BSNS_INTRACN_RL	BUSINESS INTERACTION ROLE
DWB_BSNS_INTRACN_VRSN	BUSINESS INTERACTION VERSION
DWB_CELL_SITE_COST	CELL SITE COST
DWB_CHNL_COST	CHANNEL COST
DWB_CMPGN_COST	CAMPAIGN COST
DWB_CMPGN_MSG_CRTVE	CAMPAIGN MESSAGE CREATIVE
DWB_CNCT_LST_COST	CONTACT LIST COST
DWB_CNSEQ_PRFMNC_NTFCTN	CONSEQUENCE PERFORMANCE NOTIFICATION
DWB_CNTNT_DLVRY_EVT	CONTENT DELIVERY EVENT
DWB_COST	COST
DWB_COST_CNTR_BDGT	COST CENTER BUDGET
DWB_COURIER_COST	COURIER COST
DWB_CRCUT_RNTL	CIRCUIT RENTAL
DWB_CRCUT_TRFC	CIRCUIT TRAFFIC
DWB_CRNCY_EXCHNG_RATE	CURRENCY EXCHANGE RATE
DWB_CUST_COST	CUSTOMER COST
DWB_CUST_FLD_SRVC_ACTVTY	CUSTOMER FIELD SERVICE ACTIVITY
DWB_CUST_FLD_SRVC_DTL	CUSTOMER FIELD SERVICE DETAIL
DWB_CUST_ORDR	CUSTOMER ORDER
DWB_CUST_ORDR_LN_ITEM	CUSTOMER ORDER LINE ITEM
DWB_CUST_ORDR_LN_ITEM_ST_ASGN	CUSTOMER ORDER LINE ITEM STATE ASSIGN
DWB_CUST_ORDR_PYMT	CUSTOMER ORDER PAYMENT
DWB_CUST_ORDR_STATE_ASGN	CUSTOMER ORDER STATE ASSIGNMENT
DWB_DATA_SRVC_EVT	DATA SERVICE EVENT
DWB_DISC_LI	DISCOUNT LINE ITEM
DWB_EMP_ACT_LBR_HRLY	EMPLOYEE ACTUAL LABOR HOURLY
DWB_EMP_ACT_LBR_SALARIED	EMPLOYEE ACTUAL LABOR SALARIED
DWB_EMP_COST	EMPLOYEE COST
DWB_EMP_EXP_RPT	EMPLOYEE EXPENSE REPORT
DWB_EMP_EXP_RPT_ITEM	EMPLOYEE EXPENSE REPORT ITEM
DWB_EMP_EXP_RPT_STATE	EMPLOYEE EXPENSE REPORT STATE

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_EMP_TRNG_REC	EMPLOYEE TRAINING RECORD
DWB_EQPMNT_CNTR_COST	EQUIPMENT CENTER COST
DWB_ERRD_MDTD_CALL_EVT	ERRORED MEDIATED CALL EVENT
DWB_ERRD_RAW_WRLS_CALL_EVT	ERRORED RATED WIRELESS CALL EVENT
DWB_ERRD_RTD_WRLS_CALL_EVT	ERRORED RAW WIRELESS CALL EVENT
DWB_EVT	EVENT
DWB_EVT_ACCS_MTHD_ACTVTY	EVENT ACCESS METHOD ACTIVITY
DWB_EVT_ACCT	EVENT ACCOUNT
DWB_EVT_AGRMNT	EVENT AGREEMENT
DWB_EVT_ASGN	EVENT ASSIGNMENT
DWB_EVT_CMPST_PROD_SPEC	EVENT COMPOSITE PRODUCT SPECIFICATION
DWB_EVT_COST	EVENT COST
DWB_EVT_CRCUT_RNTL	EVENT CIRCUIT RENTAL
DWB_EVT_EMP_ACTVTY	EVENT EMPLOYEE ACTIVITY
DWB_EVT_EMIT_DTL	EVENT EMIT DETAIL
DWB_EVT_EMP_PYRL	EVENT EMPLOYEE PAYROLL
DWB_EVT_EQPMNT_INSTNC	EVENT EQUIPMENT INSTANCE
DWB_EVT_FINCL	EVENT FINANCIAL
DWB_EVT_GEO	EVENT GEOGRAPHY
DWB_EVT_LYLTY_PROG	EVENT LOYALTY PROGRAM
DWB_EVT_PROD_SBRP_WRLS	EVENT PRODUCT SUBSCRIPTION WIRELESS
DWB_EVT_PRPD_MBL	EVENT PREPAID MOBILE
DWB_EVT_PRTY_ASGN	EVENT PARTY ASSIGNMENT
DWB_EVT_PRTY_INTRACN	EVENT PARTY INTERACTION
DWB_EVT_PRTY_INTRACN_CHAT_DTL	EVENT PARTY INTERACTION CHAT DETAIL
DWB_EVT_PRTY_INTRACN_ITEM	EVENT PARTY INTERACTION ITEM
DWB_EVT_PRTY_INTRACN_PRTCPTN	EVENT PARTY INTERACTION PARTICIPATION
DWB_EVT_PRTY_PRFL	EVENT PARTY PROFILE
DWB_EVT_SBRP_CHNG	EVENT SUBSCRIPTION CHANGE
DWB_EVT_SIM_CARD	EVENT SIM CARD
DWB_EVT_STAT	EVENT STATUS
DWB_EVT_TRGR_DTL	EVENT TRIGGER DETAIL
DWB_EXP_RPT_PRTY_ASGN	EXPENSE REPORT PARTY ASSIGNMENT
DWB_FIXED_LN_CALL_EVT	FIXED LINE CALL EVENT
DWB_GL_BAL	GL BALANCE
DWB_GL_JE	GL JOURNAL ENTRY
DWB_GL_JE_BTCH	GL JOURNAL ENTRY BATCH

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_GL_JE_LN	GL JOURNAL ENTRY LINE
DWB_GL_JE_LN_SBLDGR_ASGN	GL JE LINE SUBLEDGER ASSIGNMENT
DWB_GL_SBLDGR_JE	GL SUBLEDGER JOURNAL ENTRY
DWB_GL_SBLDGR_JE_LN	GL SUBLEDGER JOURNAL ENTRY LINE
DWB_GPRS_USG_EVT	GPRS USAGE EVENT
DWB_IDD_CALL_EVT	IDD CALL EVENT
DWB_IMPRESSION	IMPRESSION
DWB_INTRACN_ANSWR_CHOICE	INTERACTION ANSWER CHOICE
DWB_INTRACN_NAVGTN_HIST	INTERACTION NAVIGATION HISTORY
DWB_INTRACN_QUES_RESPN	INTERACTION QUESTION RESPONSE
DWB_INTRACN_TRNSFR_HIST	INTERACTION TRANSFER HISTORY
DWB_INTRNT_ACCS_EVT	INTERNET ACCESS EVENT
DWB_INV_ITEM_STATE	INVENTORY ITEM STATE
DWB_INVC	INVOICE
DWB_INVC_ADJ	INVOICE ADJUSTMENT
DWB_INVC_DISC	INVOICE DISCOUNT
DWB_INVC_GENRTN_PRCS	INVOICE GENERATION PROCESS
DWB_INVC_ITEM	INVOICE ITEM
DWB_INVC_ITEM_DTL	INVOICE ITEM DETAIL
DWB_INVC_ITEM_RLTN	INVOICE ITEM RELATIONSHIP
DWB_INVC_PYMT_ASGN	INVOICE PAYMENT ASSIGNMENT
DWB_INVC_PYMT_TERM	INVOICE PAYMENT TERM
DWB_INVC_STAT_HIST	INVOICE STATUS HISTORY
DWB_INVC_TAX_ITEM	INVOICE TAX ITEM
DWB_INV_ADJ_DOC_LI	INVENTORY ADJUSTMENT DOCUMENT LINE ITEM
DWB_INV_CNTRL_DOC	INVENTORY CONTROL DOCUMENT
DWB_INV_CNTRL_DOC_LI	INVENTORY CONTROL DOCUMENT LINE ITEM
DWB_ISP_USG_EVT	ISP USAGE EVENT
DWB_IVR_INTRACN_NAVGTN_HIST	IVR INTERACTION NAVIGATION HISTORY
DWB_JE_LN_CUST_ORDR_ITEM_ASGN	JOURNAL ENTRY LINE CUSTOMER ORDER ITEM ASSIGNMENT
DWB_JE_LN_INVC_ITEM_ASGN	JOURNAL ENTRY LINE INVOICE ITEM ASSIGNMENT
DWB_LYLTY_MBRSHIP_ENRL	LOYALTY MEMBERSHIP ENROLL
DWB_LYLTY_TIER_CHNG_HIST	LOYALTY TIER CHANGE HISTORY
DWB_MBRSHIP_ACCT_BAL_HIST	MEMBERSHIP ACCOUNT BALANCE HISTORY
DWB_MDTD_CALL_EVT	MEDIATED CALL EVENT
DWB_MEDIA_OBJ_COST	MEDIA OBJECT COST

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_MMS_EVT	MMS EVENT
DWB_NP_RQST_HDR	NP REQUEST HEADER
DWB_NP_RQST_LN_ITEM	NP REQUEST LINE ITEM
DWB_NP_RQST_LN_ITEM_STATE_HIST	NP REQUEST LINE ITEM STATE HISTORY
DWB_NP_RQST_STATE_HIST	NP REQUEST STATE HISTORY
DWB_ORG_BSNS_UNIT_COST	ORGANIZATION BUSINESS UNIT COST
DWB_PCHSE_ORDR	PURCHASE ORDER
DWB_PCHSE_ORDR_LN_ITEM	PURCHASE ORDER LINE ITEM
DWB_PCHSE_ORDR_LN_ITEM_STATE	PURCHASE ORDER LINE ITEM STATE
DWB_PCHSE_ORDR_STATE	PURCHASE ORDER STATE
DWB_PHY_CNT_DOC	PHYSICAL COUNT DOCUMENT
DWB_PHY_CNT_DOC_LI	PHYSICAL COUNT DOCUMENT LINE ITEM
DWB_PLCY_EVT	POLICY EVENT
DWB_PLCY_EVT_ATMC	POLICY EVENT ATOMIC
DWB_PLCY_EVT_CMPST	POLICY EVENT COMPOSITE
DWB_PRBLM	PROBLEM
DWB_PRBLM_CMNTS	PROBLEM COMMENTS
DWB_PRBLM_LOC_ASGN	PROBLEM LOCATION ASSIGNMENT
DWB_PRBLM_RLTN	PROBLEM RELATIONSHIP
DWB_PRBLM_RSCE_ASGN	PROBLEM RESOURCE ASSIGNMENT
DWB_PRBLM_SRVC_ASGN	PROBLEM SERVICE ASSIGNMENT
DWB_PRBLM_STAT_HIST	PROBLEM STATUS HISTORY
DWB_PRBLM_TRKNG_REC_ASGN	PROBLEM TRACKING RECORD ASSIGNMENT
DWB_PRCS_COST	PROCESS COST
DWB_PRCS_EVT	PROCESS EVENT
DWB_PRCS_INVC_DSPTCHG_EVT	PROCESS INVOICE DISPATCHING EVENT
DWB_PRCS_INVC_GNRTN_EVT	PROCESS INVOICE GENERATION EVENT
DWB_PRCS_INVC_ISSNG_EVT	PROCESS INVOICE ISSUING EVENT
DWB_PRCSEVT_PRMTRVAL_OPRTR_ASG	PROCESS EVENT PARAMETER VALUE OPERATOR ASSIGNMENT
DWB_PRFMNC	PERFORMANCE
DWB_PRFMNC_CNSEQ	PERFORMANCE CONSEQUENCE
DWB_PRFMNC_IND	PERFORMANCE INDICATOR
DWB_PRFMNC_IND_GRP	PERFORMANCE INDICATOR GROUP
DWB_PRFMNC_MBL_ADDR	PERFORMANCE MOBILE ADDRESS
DWB_PRFMNC_NTFCTN	PERFORMANCE NOTIFICATION
DWB_PRICE_EVT	PRICE EVENT

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_PRMTN_CLSTR_USG	PROMOTION CLUSTER USAGE
DWB_PRMTN_CNCT_LST_UTLZTN	PROMOTION CONTACT LIST UTILIZATION
DWB_PRMTN_COST	PROMOTION COST
DWB_PRMTN_MGMT_HIST	PROMOTION MANAGEMENT HISTORY
DWB_PRMTN_TERM_VAL	PROMOTION TERM VALUE
DWB_PROD_OFR_COST	PRODUCT OFFERING COST
DWB_PROD_OFR_MGMT	PRODUCT OFFERING MANAGEMENT
DWB_PROD_SBRP_STAT_HIST	PRODUCT SUBSCRIPTION STATUS HISTORY
DWB_PROD_SPEC_COST	PRODUCT SPECIFICATION COST
DWB_PROD_SPEC_MGMT_HIST	PRODUCT SPECIFICATION MANAGEMENT HISTORY
DWB_PROD_SPEC_STAT_HIST	PRODUCT SPECIFICATION STATUS HISTORY
DWB_PROD_STAT_HIST	PRODUCT STATUS HISTORY
DWB_PRPD_RCHRG	PREPAID RECHARGE
DWB_PRTNR_PYMT	PARTNER PAYMENT
DWB_PRTY_AM_PROD_OFR_ASGN_HIST	PARTY AM PRODUCT OFFERING ASSIGNMENT HISTORY
DWB_PRTY_AM_PROD_OFR_ASGN_STAT	PARTY AM PRODUCT OFFERING ASSIGNMENT STATUS
DWB_PRTY_COST_ASGN	PARTY COST ASSIGNMENT
DWB_PRTY_ORDR_ASGN	PARTY ORDER ASSIGNMENT
DWB_PRTY_PRMTN_RESPN	PARTY PROMOTION RESPONSE
DWB_PRTY_STAT_HIST	PARTY STATUS HISTORY
DWB_PTV_FULL_CHNL_ACTVTN	PTV FULL CHANNEL ACTIVATION
DWB_PTV_QPI_SRVC_EVT	PTV QPI SERVICE EVENT
DWB_PTV_USG_EVT	PTV USAGE EVENT
DWB_RAW_MMS_EVT	RAW MMS EVENT
DWB_RAW_WRLS_CALL_EVT	RAW WIRELESS CALL EVENT
DWB_REDEM_EVT	REDEMPTION EVENT
DWB_RSCE_ALRM	RESOURCE ALARM
DWB_RSCE_ALRM_CMNT	RESOURCE ALARM COMMENT
DWB_RSCE_ALRM_RLTN	RESOURCE ALARM RELATIONSHIP
DWB_RSCE_ALRM_RSCE_ASGN	RESOURCE ALARM RESOURCE ASSIGNMENT
DWB_RSCE_ALRM_TRKNG_REC_ASGN	RESOURCE ALARM TRACKING RECORD ASSIGNMENT
DWB_RSCE_BSNS_INTRACN_RL	RESOURCE BUSINESS INTERACTION ROLE
DWB_RSCE_COST	RESOURCE COST
DWB_RSCE_FLT_ASGN	RESOURCE FAULT ASSIGNMENT
DWB_RSCE_HIST	RESOURCE HISTORY
DWB_RSCE_ORDR	RESOURCE ORDER
DWB_RSCE_ORDR_LN_ITEM	RESOURCE ORDER LINE ITEM

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_RSCE_PRFMNC	RESOURCE PERFORMANCE
DWB_RSCE_STATE_HIST	RESOURCE STATE HISTORY
DWB_RTD_UDR_EVT	RATED UDR EVENT
DWB_RTL_SL_RTRN_LI	RETAIL SALES RETURN LINE ITEM
DWB_RTL_TNDR_LI	RETAIL TENDER LINE ITEM
DWB_RTL_TRX	RETAIL TRANSACTION
DWB_RTL_TRX_LN_ITEM	RETAIL TRANSACTION LINE ITEM
DWB_SBRP_TERM_VAL	SUBSCRIPTION TERM VALUE
DWB_SESSION	SESSION
DWB_SL_CHNL_CMISN_PLN_ASGN	SALES CHANNEL COMMISSION PLAN ASSIGNMENT
DWB_SL_CMISN_DTL	SALES COMMISSION DETAIL
DWB_SL_CMISN_PYRL	SALES COMMISSION PAYROLL
DWB_SMS_EVT	SMS EVENT
DWB_SRVC_LVL_AGRMNT_VILTN	SERVICE LEVEL AGREEMENT VIOLATION
DWB_SRVC_ORDR	SERVICE ORDER
DWB_SRVC_ORDR_LN_ITEM	SERVICE ORDER LINE ITEM
DWB_SRVC_PRFMNC	SERVICE PERFORMANCE
DWB_SRVC_PRBLM	SERVICE PROBLEM
DWB_SRVC_PRBLM_RSCE_ALRM_ASGN	SERVICE PROBLEM RESOURCE ALARM ASSIGNMENT
DWB_SRVC_PRBLM_SBRP_ASGN	SERVICE PROBLEM SUBSCRIPTION ASSIGNMENT
DWB_SRVC_PRBLM_SRVC_ASGN	SERVICE PROBLEM SERVICE ASSIGNMENT
DWB_SRVC_RQST	SERVICE REQUEST
DWB_SRVC_STAT_HIST	SERVICE STATUS HISTORY
DWB_TAP_IN_WRLS_RMNG_EVT	TAP IN WIRELESS ROAMING EVENT
DWB_TAP_OUT_WRLS_RMNG_EVT	TAP OUT WIRELESS ROAMING EVENT
DWB_TNDR_CNTRL_TRX	TENDER CONTROL TRANSACTION
DWB_TRBLE_TCKT	TROUBLE TICKET
DWB_TRBLE_TCKT_FLD_SPPRT_ASGN	TROUBLE TICKET FIELD SUPPORT ASSIGNMENT
DWB_TRBLE_TCKT_ITEM	TROUBLE TICKET ITEM
DWB_TRKNG_REC	TRACKING RECORD
DWB_UDR_EVT	UDR EVENT
DWB_UDR_EVT_ASGN	UDR EVENT ASSIGNMENT
DWB_UMS_EVT	UMS EVENT
DWB_UNIT_ALWNCE	UNIT ALLOWANCE
DWB_VNDR_APNMNT	VENDOR APPOINTMENT
DWB_VOIP_CALL_EVT	VOIP CALL EVENT
DWB_WEB_INTRACN_NAVGTN_HIST	WEB INTERACTION NAVIGATION HISTORY

Table 4–5 (Cont.) Base Tables

Table Name	More Information
DWB_WRLS_CALL_EVT	WIRELESS CALL EVENT
DWB_WRLS_CNTNT_DNLDG_EVT	WIRELESS CONTENT DOWNLOADING EVENT
DWB_WRLS_RMNG_EVT	WIRELESS ROAMING EVENT
DWB_WRLS_RMNG_EVT_BTCH	WIRELESS ROAMING EVENT BATCH

Derived Tables

Table 4–6 Oracle Communications Data Model Derived Tables

Table Name	More Information
DWD_ACCT_BAL_MO	ACCOUNT BALANCE MONTH DRVD
DWD_ACCT_DEBT_MO	Not used
DWD_ACCT_FRST_ACTVTY	ACCOUNT FIRST ACTIVITY DERIVED
DWD_ACCT_LAST_ACTVTY	ACCOUNT LAST ACTIVITY DERIVED
DWD_ACCT_PYMT_DAY	ACCOUNT PAYMENT DAY DRVD
DWD_ACCT_PYMT_MTHD_STAT_HIST	ACCOUNT PAYMENT METHOD STATUS HIST DRVD
DWD_AGRMNT	AGREEMENT DRVD
DWD_AGRMNT_CHNG	AGREEMENT CHANGED DRVD
DWD_AGRMNT_RVN_DAY	AGREEMENT REVENUE DAY DRVD
DWD_BER_FER_ERR_RATIO_DAY	BER FER ERROR RATIO DAY DRVD
DWD_CANBLZTN_DTL_DAY	CANNIBALIZATION DETAIL DAY DRVD
DWD_CELL_STTSTC_DAY	CELL STATISTIC DAY DRVD
DWD_CMISN	COMMISSION DRVD
DWD_CMPGN_HIST_DAY	CAMPAIGN HISTORY DAY DRVD
DWD_CNT_DAY	COUNT DAY DRVD
DWD_CNTCT_CNTR_DAY	CONTACT CENTER DAY DERIVED
DWD_COST_CNTR	COST CENTER DERIVED
DWD_CUST_COST	CUSTOMER COST DRVD
DWD_CUST_DNA	CUSTOMER DNA DRVD
DWD_CUST_EQPMNT_INSTLTN_DAY	CUSTOMER EQUIPMENT INSTALLATION DAY DRVD
DWD_CUST_ORDR_DAY	CUSTOMER ORDER DAY DERIVED
DWD_CUST_ORDR_LN_ITEM_DAY	CUSTOMER ORDER LINE ITEM DAY DERIVED
DWD_CUST_RFMP_SCR	CUSTOMER RFMP SCORE
DWD_CUST_SKU_SL_RETRN_DAY	CUSTOMER SKU SALES RETURN DAY DRVD
DWD_DATA_USG_DAY	DATA USAGE DAY DRVD
DWD_GIVE_AWAY_ITEM_DAY	GIVE AWAY ITEM DAY DRVD
DWD_INVC_AGNG_DAY	INVOICE AGING DAY DRVD
DWD_INVC_DAY	INVOICE DRVD

Table 4–6 (Cont.) Oracle Communications Data Model Derived Tables

Table Name	More Information
DWD_INV_ADJ_ITEM_DAY	Not used
DWD_INV_POSN_ITEM_DAY	INVENTORY POSITION ITEM DAY DRVD
DWD_INV_RCPT_ITEM_DAY	INVENTORY RECEIPT ITEM DAY DRVD
DWD_INV_UNAVL_ITEM_DAY	INVENTORY UNAVAILABLE ITEM DAY DRVD
DWD_INV_VNDR_CMPLNC_DAY	INVENTORY VENDOR COMPLIANCE DAY DRVD
DWD_INV_XFER_ITEM_DAY	INVENTORY TRANSFER ITEM DAY DRVD
DWD_IN_PLTFRM_DAY	IN PLATFORM DAY DRVD
DWD_LYLTY_MBR_PNT_DAY	LOYALTY MEMBER POINT DAY DRVD
DWD_MKT_SHARE	MARKET SHARE DRVD
DWD_MSC_TRFC_DAY	MSC TRAFFIC DAY DRVD
DWD_NBR_PRT_DAY	NUMBER PORT DAY DRVD
DWD_NTWK_AVLBLTY_DAY	NETWORK AVAILABILITY DAY DRVD
DWD_NTWK_TCHPNT	NETWORK TOUCHPOINT DRVD
DWD_ORG_BSNS_UNT_HRS_DAY	ORGANIZATION BUSINESS UNIT HOURS DAY DRVD
DWD_POS_TNDR_FLOW	POINT OF SALE TENDER FLOW DRVD
DWD_PRCS_INVC_DAY	PROCESS INVOICE DAY DRVD
DWD_PRPD_ACCT_STTSTC_DAY	PREPAID ACCOUNT STATISTIC DRVD
DWD_PRPD_ALWNCE_DAY	Not used
DWD_PRTNR_STLMNT	PARTNER SETTLEMENT DRVD
DWD_RTL_SL_RETRN_ITEM_DAY	RETAIL SALES RETURN ITEM DAY DRVD
DWD_RF_NTWK_CPCTY_DAY	RF NETWORK CAPACITY DAY DRVD
DWD_RVN_DAY	REVENUE DAY DRVD
DWD_SL_RPRSTV_STTSTC	SALES REPRESENTATIVE STATISTICS DRVD
DWD_SPLMNTR_SRVC_USG	SUPPLEMENTARY SERVICE USAGE DRVD
DWD_SRVC_PRBLM_DAY	SERVICE PROBLEM DAY DRVD
DWD_STORE_EFFNCY_DAY	STORE EFFICIENCY DAY DRVD
DWD_TMF_KPI	TMF KPI DRVD
DWD_VAS_SBRP_QCK_SUMM	VAS SUBSCRIPTION QUICK SUMMARY DRVD
DWD_VAS_USG_DAY	VAS USAGE DAY DRVD
DWD_VOI_CALL_DAY	VOICE CALL DAY DRVD

Aggregate Tables

Table 4–7 briefly describes the Aggregate tables in Oracle Communications Data Model.

Table 4–7 Aggregate Tables

Table Name	More Information
DWA_ACCT_DEBT_MO	ACCOUNT DEBT MONTH AGGR
DWA_ACCT_PYMT_MO	ACCOUNT PAYMENT MONTH AGGR
DWA_ACCT_STTSTC_MO	ACCOUNT STATISTIC MONTH AGGR
DWA_AGRMNT_ACCT_SBRP_PROD	AGREEMENT ACCOUNT SUBSCRIPTION PRODUCT AGGR
DWA_ARPU_BASE_CUST_TYP	ARPU BASE CUSTOMER TYPE AGGR
DWA_BER_FER_ERR_RATIO_MO	BER FER ERROR RATIO MONTH AGGR
DWA_CALL_CNTR_CALL_MO	CALL CENTER CALL MONTH AGGR
DWA_CALL_CNTR_CASE_MO	CALL CENTER CASE MONTH AGGR
DWA_CELL_STTSTC_MO	CELL STATISTIC MONTH AGGR
DWA_CMISN_MO	COMMISSION MONTH AGGR
DWA_CNT_MO	COUNT MONTH AGGR
DWA_COST_CNTR_MO	COST CENTER MONTH AGGR
DWA_CUST_ACQSTN_SUMM_MO	CUSTOMER ACQUISITION SUMMARY MONTH AGGR
DWA_CUST_CHRN_MO	CUSTOMER CHURN MONTH AGGR
DWA_CUST_COST_MO	CUSTOMER COST MONTH AGGR
DWA_CUST_DEBT_COLLCTN_MO	CUSTOMER DEBT COLLECTION MONTH AGGR
DWA_CUST_EQPMNT_INSTLTN_MO	CUSTOMER EQUIPMENT INSTALLATION MO AGGR
DWA_CUST_GROSS_ORDRS_QTR	CUSTOMER GROSS ORDER QUARTERLY
DWA_CUST_ORDR_MO	CUSTOMER ORDER MONTH AGGR
DWA_DATA_USG_MO	DATA USAGE MONTH AGGR
DWA_IN_PLTFRM_MO	IN PLATFORM MONTH AGGR
DWA_INV_POSN_DEPT_DAY	INVENTORY POSITION DEPARTMENT DAY AGGR
DWA_INV_POSN_SBC_MO	INVENTORY POSITION SUBCLASS MONTH AGGR
DWA_INVC_MO	INVOICE MONTH AGGR
DWA_INVC_ADJ_MO	INVOICE ADJUSTMENT MONTH AGGR
DWA_LYLTY_PROG_MO	LOYALTY PROGRAM MO AGGR
DWA_MKT_SHARE	MARKET SHARE AGGR
DWA_MSC_TRFC_MO	MSC TRAFFIC MONTH AGGR
DWA_NBR_PRT_MO	NUMBER PORT MONTH AGGR
DWA_NTWK_AVLBLTY_MO	NETWORK AVAILABILITY MONTH AGGR
DWA_NTWK_TCHPNT_MO	NETWORK TOUCHPOINT MONTH AGGR
DWA_PRPD_ALWNCE_MO	PREPAID ALLOWANCE MONTH AGGR
DWA_PRTNR_STLMNT_MO	PARTNER SETTLEMENT MONTH AGGR
DWA_RDMPTN_MO	REDEMPTION MO AGGR
DWA_RF_NTWK_CPCTY_MO	RF NETWORK CAPACITY MONTH AGGR
DWA_RVN_MO	REVENUE MONTH AGGR
DWA_SBSCBR_STTSTC_MO	SUBSCRIPTION STATISTIC MONTH AGGR

Table 4–7 (Cont.) Aggregate Tables

Table Name	More Information
DWA_SL_CMPGN_SUMM_MO	SALES CAMPAIGN SUMMARY MONTH AGGR
DWA_SPLMNTR_SRVC_USG_MO	Not used
DWA_STORE_EFFNCY_MO	STORE EFFICIENCY MONTH AGGR
DWA_VAS_SBRP_QCK_SUMM_MO	VAS SUBSCRIPTION QUICK SUMMARY MO AGGR
DWA_VAS_USG_MO	VAS USAGE MONTH AGGR
DWA_VOI_CALL_MO	VOICE CALL MONTH AGGR

Temporary and Other Tables

Table 4–8 and Table 4–9 briefly describes the temporary and control tables in Oracle Communications Data Model.

Table 4–8 Temporary Oracle Communications Data Model Tables

Table Name	Description
DWA_CUST_GROSS_ORDRS_QTR	This entity gives order measures, number of orders and total order amount, in same quarters of consecutive years.
DWA_CUST_NET_ORDRS_QTR	This entity gives order measures, number of orders and total order amount, in consecutive quarters.
DWA_CUST_ORDR_MO	This entity summarizes orders placed by customers at month level aggregation. Using this entity, order measures, number of orders and total order amount, across order status, order type, product, product type dimensions can be computed.
TMP_DWD_CUST_RFMP_SCR_1	
TMP_DWD_CUST_RFMP_SCR_2	

Table 4–9 Control Tables

Table Name	Description
DWC_ETL_PARAMETER	Store ETL parameters such as etl start date and etl end date. For more information, see "Intra-ETL Load Parameters Control Table" on page A-1.
DWC_INTRA_ETL_ACTIVITY	Reports errors at the individual program level. For more information, see "Intra-ETL Monitoring Process Control Tables" on page A-3.
DWC_INTRA_ETL_PROCESS	Reports errors at the whole batch load level. For more information, see "Intra-ETL Monitoring Process Control Tables" on page A-3.
DWC_MESSAGE	"Intra-ETL Monitoring Process Control Tables" on page A-3
DWC_OLAP_ETL_PARAMETER	Reports OLAP ETL parameter. For more information, see "Intra-ETL OLAP Mapping Control Table" on page A-2.

Sequences in Oracle Communications Data Model

Table 4–10 lists the sequence names in Oracle Communications Data Model.

Table 4–10 Sequence Name for Oracle Communications Data Model

Table Name	Sequence Name
DWC_INTRA_ETL_ACTIVITY	INTRA_ETL_ACTIVITY_SEQ

Table 4–10 (Cont.) Sequence Name for Oracle Communications Data Model

Table Name	Sequence Name
DWC_INTRA_ETL_PROCESS	INTRA_ETL_PROCESS_SEQ
DWD_TMF_KPI	DWD_TMF_KPI_SEQ
DWR_DAY_TODATE_TRANS	DAY_TODATE_TRANS_SEQ
DWR_HLF_MO_TODATE_TRANS	HLF_MO_TODATE_TRANS_SEQ
DWR_MO_TODATE_TRANS	MO_TODATE_TRANS_SEQ
DWR_MO_TRANS	MO_TRANS_SEQ
DWR_QTR_TODATE_TRANS	QTR_TODATE_TRANS_SEQ
DWR_QTR_TRANS	QTR_TRANS_SEQ
DWR_WK_TODATE_TRANS	WK_TODATE_TRANS_SEQ
DWR_YR_TRANS	YR_TRANS_SEQ

Compressed Tables

Table 4–11 lists the Compressed Tables in Oracle Communications Data Model. Oracle Communications Data Model uses Database Compression on these tables to save space and load times.

Table 4–11 Compressed Tables

Table Name
DWA_ACCT_DEBT_MO
DWA_ACCT_PYMT_MO
DWA_ACCT_STTSTC_MO
DWA_ARPU_BASE_CUST_TYP
DWA_BER_FER_ERR_RATIO_MO
DWA_CALL_CNTR_CALL_MO
DWA_CALL_CNTR_CASE_MO
DWA_CELL_STTSTC_MO
DWA_CMISN_MO
DWA_CNT_MO
DWA_COST_CNTR_MO
DWA_CUST_ACQSTN_SUMM_MO
DWA_CUST_CHRN_MO
DWA_CUST_COST_MO
DWA_CUST_DEBT_COLLCTN_MO
DWA_CUST_EQPMNT_INSTLTN_MO
DWA_CUST_GROSS_ORDRS_QTR
DWA_CUST_ORDR_MO
DWA_DATA_USG_MO
DWA_IN_PLTFRM_MO

Table 4–11 (Cont.) Compressed Tables

Table Name
DWA_INV_POSN_DEPT_DAY
DWA_INV_POSN_SBC_MO
DWA_INVC_ADJ_MO
DWA_INVC_MO
DWA_LYLTY_PROG_MO
DWA_MKT_SHARE
DWA_MSC_TRFC_MO
DWA_NBR_PRT_MO
DWA_NTWK_AVLBLTY_MO
DWA_NTWK_TCHPNT_MO
DWA_PRPD_ALWNCE_MO
DWA_PRTNR_STLMNT_MO
DWA_RDMPTN_MO
DWA_RF_NTWK_CPCTY_MO
DWA_RVN_MO
DWA_SBSCBR_STTSTC_MO
DWA_SL_CMPGN_SUMM_MO
DWA_SPLMNTR_SRVC_USG_MO
DWA_STORE_EFFNCY_MO
DWA_VAS_SBRP_QCK_SUMM_MO
DWA_VAS_USG_MO
DWA_VOI_CALL_MO
DWB_ACCS_MTHD_PORT_HIST
DWB_ACCS_MTHD_STAT_HIST
DWB_ACCT_ACCTNG_CYCL_HIST
DWB_ACCT_BAL_IMPC
DWB_ACCT_BLLG_OCCRNCE
DWB_ACCT_COST
DWB_ACCT_CRDT_LMT
DWB_ACCT_MNGMNT_HIST
DWB_ACCT_PROD_OFR_PRTCPTN_HIST
DWB_ACCT_PYMT
DWB_ACCT_PYMT_MTHD_STAT
DWB_ACCT_STAT_HIST
DWB_ADDR_STAT_HIST
DWB_AGRMNT_APRVL
DWB_AGRMNT_STAT

Table 4–11 (Cont.) Compressed Tables

Table Name
DWB_AGRMNT_TERM
DWB_APNMNT_CLNDR
DWB_BLK_LST_HIST
DWB_BRDBND_USG_EVT
DWB_BSNS_INTRACN
DWB_BSNS_INTRACN_HIST
DWB_BSNS_INTRACN_ITEM
DWB_BSNS_INTRACN_ITEM_PRICE
DWB_BSNS_UNIT_COST
DWB_CELL_SITE_COST
DWB_CHNL_COST
DWB_CMPGN_COST
DWB_CMPGN_MSG_CRTVE
DWB_CNCT_LST_COST
DWB_CNTNT_DLVRY_EVT
DWB_COST
DWB_COST_CNTR_BDGT
DWB_COURIER_COST
DWB_CRCUT_RNTL
DWB_CRCUT_TRFC
DWB_CRNCY_EXCHNG_RATE
DWB_CUST_COST
DWB_CUST_FLD_SRVC_ACTVTY
DWB_CUST_FLD_SRVC_DTL
DWB_CUST_ORDR
DWB_CUST_ORDR_LN_ITEM
DWB_CUST_ORDR_LN_ITEM_ST_ASGN
DWB_CUST_ORDR_PYMT
DWB_CUST_ORDR_STATE_ASGN
DWB_DATA_SRVC_EVT
DWB_DISC_LI
DWB_EMP_ACT_LBR_HRLY
DWB_EMP_ACT_LBR_SALARIED
DWB_EMP_COST
DWB_EMP_EXP_RPT
DWB_EMP_TRNG_REC
DWB_EQPMNT_CNTR_COST

Table 4–11 (Cont.) Compressed Tables

Table Name
DWB_ERRD_MDTD_CALL_EVT
DWB_ERRD_RAW_WRLS_CALL_EVT
DWB_ERRD_RTD_WRLS_CALL_EVT
DWB_EVT
DWB_EVT_ACCS_MTHD_ACTVTY
DWB_EVT_ACCT
DWB_EVT_AGRMNT
DWB_EVT_ASGN
DWB_EVT_CMPST_PROD_SPEC
DWB_EVT_COST
DWB_EVT_CRCUT_RNTL
DWB_EVT_EMP_PYRL
DWB_EVT_EQPMNT_INSTNC
DWB_EVT_FINCL
DWB_EVT_GEO
DWB_EVT_LYLTY_PROG
DWB_EVT_PROD_SBRP_WRLS
DWB_EVT_PRPD_MBL
DWB_EVT_PRTY_ASGN
DWB_EVT_PRTY_INTRACN
DWB_EVT_PRTY_PRFL
DWB_EVT_SBRP_CHNG
DWB_EVT_SIM_CARD
DWB_EVT_STAT
DWB_EXP_RPT_PRTY_ASGN
DWB_FIXED_LN_CALL_EVT
DWB_GPRS_USG_EVT
DWB_IDD_CALL_EVT
DWB_INTRACN_QUES_RESPN
DWB_INTRNT_ACCS_EVT
DWB_INV_ADJ_DOC_LI
DWB_INV_CNTRL_DOC
DWB_INV_CNTRL_DOC_LI
DWB_INV_ITEM_STATE
DWB_INVC
DWB_INVC_ADJ
DWB_INVC_DISC

Table 4–11 (Cont.) Compressed Tables

Table Name
DWB_INVC_ITEM
DWB_INVC_ITEM_DTL
DWB_INVC_PYMT_ASGN
DWB_INVC_PYMT_TERM
DWB_INVC_STAT_HIST
DWB_ISP_USG_EVT
DWB_MDTD_CALL_EVT
DWB_MEDIA_OBJ_COST
DWB_MMS_EVT
DWB_NP_RQST_HDR
DWB_NP_RQST_LN_ITEM
DWB_NP_RQST_LN_ITEM_STATE_HIST
DWB_NP_RQST_STATE_HIST
DWB_PHY_CNT_DOC
DWB_PHY_CNT_DOC_LI
DWB_PLCY_EVT_ATMC
DWB_PLCY_EVT_CMPST
DWB_PRBLM_CMNTS
DWB_PRBLM_LOC_ASGN
DWB_PRBLM_RLTN
DWB_PRBLM_RSCE_ASGN
DWB_PRBLM_SRVC_ASGN
DWB_PRCS_COST
DWB_PRICE_EVT
DWB_PRMTN_CLSTR_USG
DWB_PRMTN_CNCT_LST_UTLZTN
DWB_PRMTN_COST
DWB_PRMTN_MGMT_HIST
DWB_PRMTN_TERM_VAL
DWB_PROD_OFR_COST
DWB_PROD_OFR_MGMT
DWB_PROD_SBRP_STAT_HIST
DWB_PROD_SPEC_COST
DWB_PROD_SPEC_MGMT_HIST
DWB_PROD_SPEC_STAT_HIST
DWB_PRPD_RCHRG
DWB_PRTNR_PYMT

Table 4–11 (Cont.) Compressed Tables

Table Name
DWB_PRTY_AM_PROD_OFR_ASGN_HIST
DWB_PRTY_AM_PROD_OFR_ASGN_STAT
DWB_PRTY_COST_ASGN
DWB_PRTY_ORDR_ASGN
DWB_PRTY_PRMTN_RESPN
DWB_PRTY_STAT_HIST
DWB_PTV_FULL_CHNL_ACTVTN
DWB_PTV_QPI_SRVC_EVT
DWB_PTV_USG_EVT
DWB_RAW_MMS_EVT
DWB_RAW_WRLS_CALL_EVT
DWB_RSCE_COST
DWB_RSCE_HIST
DWB_RSCE_ORDR
DWB_RSCE_ORDR_LN_ITEM
DWB_RSCE_PRFMNC
DWB_RSCE_STATE_HIST
DWB_RTD_UDR_EVT
DWB_RTL_SL_RTRN_LI
DWB_RTL_TNDR_LI
DWB_RTL_TRX
DWB_SBRP_TERM_VAL
DWB_SL_CMISN_DTL
DWB_SL_CMISN_PYRL
DWB_SMS_EVT
DWB_SRVC_LVL_AGRMNT_VILTN
DWB_SRVC_ORDR
DWB_SRVC_ORDR_LN_ITEM
DWB_SRVC_RQST
DWB_TAP_IN_WRLS_RMNG_EVT
DWB_TAP_OUT_WRLS_RMNG_EVT
DWB_TNDR_CNTRL_TRX
DWB_TRBLE_TCKT
DWB_TRBLE_TCKT_FLD_SPPRT_ASGN
DWB_TRBLE_TCKT_ITEM
DWB_TRKNG_REC
DWB_UDR_EVT

Table 4–11 (Cont.) Compressed Tables

Table Name
DWB_UDR_EVT_ASGN
DWB_UMS_EVT
DWB_UNIT_ALWNCE
DWB_VNDR_APNMNT
DWB_VOIP_CALL_EVT
DWB_WRLS_CALL_EVT
DWB_WRLS_CNTNT_DNLDG_EVT
DWB_WRLS_RMNG_EVT
DWB_WRLS_RMNG_EVT_BTCH
DWD_ACCT_BAL_MO
DWD_ACCT_DEBT_MO
DWD_ACCT_FRST_ACTVTY
DWD_ACCT_LAST_ACTVTY
DWD_ACCT_PYMT_DAY
DWD_ACCT_PYMT_MTHD_STAT_HIST
DWD_AGRMNT
DWD_AGRMNT_CHNG
DWD_AGRMNT_RVN_DAY
DWD_BER_FER_ERR_RATIO_DAY
DWD_CANBLZTN_DTL_DAY
DWD_CELL_STTSTC_DAY
DWD_CMISN
DWD_CMPGN_HIST_DAY
DWD_CNT_DAY
DWD_CNTCT_CNTR_DAY
DWD_COST_CNTR
DWD_CUST_COST
DWD_CUST_DNA
DWD_CUST_EQPMNT_INSTLTN_DAY
DWD_CUST_ORDR_DAY
DWD_CUST_ORDR_LN_ITEM_DAY
DWD_CUST_RFMP_SCR
DWD_CUST_SKU_SL_RETRN_DAY
DWD_DATA_USG_DAY
DWD_GIVE_AWAY_ITEM_DAY
DWD_IN_PLTFRM_DAY
DWD_INV_ADJ_ITEM_DAY

Table 4–11 (Cont.) Compressed Tables

Table Name
DWD_INV_POSN_ITEM_DAY
DWD_INV_RCPT_ITEM_DAY
DWD_INV_UNAVL_ITEM_DAY
DWD_INV_VNDR_CMPLNC_DAY
DWD_INV_XFER_ITEM_DAY
DWD_INVC_AGNG_DAY
DWD_INVC_DAY
DWD_LYLTY_MBR_PNT_DAY
DWD_MKT_SHARE
DWD_MSC_TRFC_DAY
DWD_NBR_PRT_DAY
DWD_NTWK_AVLBLTY_DAY
DWD_NTWK_TCHPNT
DWD_ORG_BSNS_UNT_HRS_DAY
DWD_POS_TNDR_FLOW
DWD_PRCS_INVC_DAY
DWD_PRPD_ACCT_STTSTC_DAY
DWD_PRPD_ALWNCE_DAY
DWD_PRTNR_STLMNT
DWD_RF_NTWK_CPCTY_DAY
DWD_RTL_SL_RETRN_ITEM_DAY
DWD_RVN_DAY
DWD_SL_RPRSTV_STTSTC
DWD_SPLMNTR_SRVC_USG
DWD_SRVC_PRBLM_DAY
DWD_STORE_EFFNCY_DAY
DWD_TMF_KPI
DWD_VAS_SBRP_QCK_SUMM
DWD_VAS_USG_DAY
DWD_VOI_CALL_DAY

Oracle Communications Data Model OLAP Cube MV, Cube View

This section includes information on the following:

- Oracle OLAP Cube Views: Oracle OLAP cube views provide organizations with the ability to both improve the performance and analytic content of SQL-based business intelligence applications. OLAP cube views are relational views of OLAP cubes, dimensions, and hierarchies that reveal the full content of cubes and dimensions.

- Cube MV (Materialized Cube Views): Cube-organized materialized views, introduced, in Oracle Database 11*g*, play the same role as table-based materialized views. That is, a summary management solution that is transparent to the querying application. Like table-based materialized views, the application queries the detail tables and the database automatically rewrites the query to access summary data in the materialized view. In the case of cube-organized materialized views, the data is managed in the cube rather than a table.

Table 4–12 shows the cube materialized views in `ocdm_sys` schema.

Table 4–12 OLAP Cube Materialized Views in ocdm_sys Schema

Cube Materialized View Name	OLAP Object Name	OLAP Object Type	More Information
CB$ACM	ACM	Cube	Customer Acquisition Cube: ACM
CB$ADM	ADM	Cube	Account Debt Cube: ADM
CB$AGRMNT	AGRMNT	Cube	Agreement Cube: AGRMNT
CB$APM	APM	Cube	Account Payment Cube: APM
CB$ARRSN_HARRSN	ARRSN_HARRSN	Dimension_Hierarchy	Account Refund Reason: ARRSN
CB$CAGNCY_HCAGNCY	CAGNCY_HCAGNCY	Dimension_Hierarchy	Collection Agency: CAGNCY
CB$CCM	CCM	Cube	Cost Product Offering Cube: CCM
CB$CHRN	CHRN	Cube	Subscriber Churn Statistic Cube: CHRN
CB$CMSN	CMSN	Cube	Commission Cube: CMSN
CB$CMTYP_HCMTYP	CMTYP_HCMTYP	Dimension_Hierarchy	Commission Type: CMTYP
CB$COM	COM	Cube	Cost Organizational Cube: COM
CB$CRNRSN_HCRNRSN	CRNRSN_HCRNRSN	Dimension_Hierarchy	Churn Reason: CRNRSN
CB$CSGMNT_HCSGMNT	CSGMNT_HCSGMNT	Dimension_Hierarchy	Customer Segment: CSGMNT
CB$CSM	CSM	Cube	Cell Statistic Cube: CSM
CB$CUSTYP_HCUSTYP	CUSTYP_HCUSTYP	Dimension_Hierarchy	Customer Type: CUSTYP
CB$CUST_HCUST	CUST_HCUST	Dimension_Hierarchy	Customer: CUST
CB$DAB_HDAB	DAB_HDAB	Dimension_Hierarchy	Debt Aging Band: DAB
CB$GEO_HGEO	GEO_HGEO	Dimension_Hierarchy	Geography: GEO
CB$IAM	IAM	Cube	Invoice Adjustment Cube: IAM
CB$IARSN_HIARSN	IARSN_HIARSN	Dimension_Hierarchy	Invoice Adjustment Reason: IARSN
CB$IATYP_HIATYP	IATYP_HIATYP	Dimension_Hierarchy	Invoice Adjustment Type: IATYP
CB$INVCM	INVCM	Cube	Invoice Customer Type Cube: INVCM
CB$ORG_HBANNER	ORG_HBANNER	Dimension_Hierarchy	Organization: ORG
CB$ORG_HCHAIN	ORG_HCHAIN	Dimension_Hierarchy	Organization: ORG
CB$ORG_HCORPORATE	ORG_HCORPORATE	Dimension_Hierarchy	Organization: ORG

Table 4–12 (Cont.) OLAP Cube Materialized Views in ocdm_sys Schema

Cube Materialized View Name	OLAP Object Name	OLAP Object Type	More Information
CB$PMTYP_HPMTYP	PMTYP_HPMTYP	Dimension_Hierarchy	Payment Method Type: PMTYP
CB$POPT_HPOPT	POPT_HPOPT	Dimension_Hierarchy	Peak Offpeak Time: POPT
CB$PRMTN_HCMPGN	PRMTN_HCMPGN	Dimension_Hierarchy	Promotion: PRMTN
CB$PRMTN_HPRMTN	PRMTN_HPRMTN	Dimension_Hierarchy	Promotion: PRMTN
CB$PROD_HPROD	PROD_HPROD	Dimension_Hierarchy	Product: PROD
CB$PTTYP_HPTTYP	PTTYP_HPTTYP	Dimension_Hierarchy	Payment Transaction Type: PTTYP
CB$RVN	RVN	Cube	Revenue Cube: RVN
CB$SLCHNL_HSLCHNL	SLCHNL_HSLCHNL	Dimension_Hierarchy	Sales Channel: SLCHNL
CB$TIME_HTBSNS	TIME_HTBSNS	Dimension_Hierarchy	Time: TIME
CB$TSLT_HTSLT	TSLT_HTSLT	Dimension_Hierarchy	Time Slot: TSLT

Table 4–13 shows the OLAP cube views in ocdm_sys schema.

Table 4–13 OLAP Cube Views in ocdm_sys schema

Cube View Name	OLAP Object Name	OLAP Object Type	More Information
ACM_FCST_STTSTC_VIEW	ACM_FCST_STTSTC	Cube	Customer Acquisition Forecast Statistic Cube: ACM_FCST_STTSTC
ACM_FCST_VIEW	ACM_FCST	Cube	Customer Acquisition Forecast Cube: ACM_FCST
ACM_VIEW	ACM	Cube	Customer Acquisition Forecast Cube: ACM_FCST
ADM_VIEW	ADM	Cube	Customer Acquisition Cube: ACM
APM_VIEW	APM	Cube	Account Payment Cube: APM
ARRSN_HARRSN_VIEW	ARRSN_HARRSN	Hierarchy	Account Refund Reason: ARRSN
ARRSN_VIEW	ARRSN	Dimension	Account Refund Reason: ARRSN
CAGNCY_HCAGNCY_VIEW	CAGNCY_HCAGNCY	Hierarchy	Collection Agency: CAGNCY
CAGNCY_VIEW	CAGNCY	Dimension	Collection Agency: CAGNCY
CCM_VIEW	CCM	Cube	Cost Product Offering Cube: CCM
CHRN_VIEW	CHRN	Cube	Subscriber Churn Statistic Cube: CHRN
CMSN_VIEW	CMSN	Cube	Commission Cube: CMSN
CMTYP_HCMTYP_VIEW	CMTYP_HCMTYP	Hierarchy	Commission Type: CMTYP
CMTYP_VIEW	CMTYP	Dimension	Commission Type: CMTYP
CM_VIEW	CM	Cube	Agreement Cube: AGRMNT
COM_VIEW	COM	Cube	Cost Organizational Cube: COM
CRNRSN_HCRNRSN_VIEW	CRNRSN_HCRNRSN	Hierarchy	Churn Reason: CRNRSN
CRNRSN_VIEW	CRNRSN	Dimension	Churn Reason: CRNRSN
CSGMNT_HCSGMNT_VIEW	CSGMNT_HCSGMNT	Hierarchy	Customer Segment: CSGMNT

Table 4–13 (Cont.) OLAP Cube Views in ocdm_sys schema

Cube View Name	OLAP Object Name	OLAP Object Type	More Information
CSGMNT_VIEW	CSGMNT	Dimension	Customer Segment: CSGMNT
CSM_FCST_VIEW	CSM_FCST	Cube	Cell Statistic Forecast Cube: CSM_FCST
CSM_VIEW	CSM	Cube	Cell Statistic Cube: CSM
CUSTYP_HCUSTYP_VIEW	CUSTYP_HCUSTYP	Hierarchy	Customer Type: CUSTYP
CUSTYP_VIEW	CUSTYP	Dimension	Customer Type: CUSTYP
CUST_HCUST_VIEW	CUST_HCUST	Hierarchy	Customer: CUST
CUST_VIEW	CUST	Dimension	Customer: CUST
DAB_HDAB_VIEW	DAB_HDAB	Hierarchy	Debt Aging Band: DAB
DAB_VIEW	DAB	Dimension	Debt Aging Band: DAB
GEO_HGEO_VIEW	GEO_HGEO	Hierarchy	Geography: GEO
GEO_VIEW	GEO	Dimension	Geography: GEO
IAM_VIEW	IAM	Cube	Invoice Adjustment Cube: IAM
IARSN_HIARSN_VIEW	IARSN_HIARSN	Hierarchy	Invoice Adjustment Reason: IARSN
IARSN_VIEW	IARSN	Dimension	Invoice Adjustment Reason: IARSN
IATYP_HIATYP_VIEW	IATYP_HIATYP	Hierarchy	Invoice Adjustment Type: IATYP
IATYP_VIEW	IATYP	Dimension	Invoice Adjustment Type: IATYP
ICT_VIEW	ICT	Cube	Invoice Customer Type Cube: INVCM
ORG_HBANNER_VIEW	ORG_HBANNER	Hierarchy	Organization: ORG
ORG_HCHAIN_VIEW	ORG_HCHAIN	Hierarchy	Organization: ORG
ORG_HCORPORATE_VIEW	ORG_HCORPORATE	Hierarchy	Organization: ORG
ORG_VIEW	ORG	Dimension	Organization: ORG
PMTYP_HPMTYP_VIEW	PMTYP_HPMTYP	Hierarchy	Payment Method Type: PMTYP
PMTYP_VIEW	PMTYP	Dimension	Payment Method Type: PMTYP
POPT_HPOPT_VIEW	POPT_HPOPT	Hierarchy	Peak Offpeak Time: POPT
POPT_VIEW	POPT	Dimension	Peak Offpeak Time: POPT
PRMTN_HCMPGN_VIEW	PRMTN_HCMPGN	Hierarchy	Promotion: PRMTN
PRMTN_HPRMTN_VIEW	PRMTN_HPRMTN	Hierarchy	Promotion: PRMTN
PRMTN_VIEW	PRMTN	Dimension	Promotion: PRMTN
PROD_HPROD_VIEW	PROD_HPROD	Hierarchy	Product: PROD
PROD_VIEW	PROD	Dimension	Product: PROD
PTTYP_HPTTYP_VIEW	PTTYP_HPTTYP	Hierarchy	Payment Transaction Type: PTTYP
PTTYP_VIEW	PTTYP	Dimension	Payment Transaction Type: PTTYP
RVN_FCST_VIEW	RVN_FCST	Cube	Revenue Forecast Cube: RVN_FCST
RVN_VIEW	RVN	Cube	Revenue Cube: RVN
SLCHNL_HSLCHNL_VIEW	SLCHNL_HSLCHNL	Hierarchy	Sales Channel: SLCHNL
SLCHNL_VIEW	SLCHNL	Dimension	Sales Channel: SLCHNL

Table 4–13 (Cont.) OLAP Cube Views in ocdm_sys schema

Cube View Name	OLAP Object Name	OLAP Object Type	More Information
TIME_HTBSNS_VIEW	TIME_HTBSNS	Hierarchy	Time: TIME
TIME_VIEW	TIME	Dimension	Time: TIME
TSLT_HTSLT_VIEW	TSLT_HTSLT	Hierarchy	Time Slot: TSLT
TSLT_VIEW	TSLT	Dimension	Time Slot: TSLT

5

Oracle Communications Data Model Logical to Physical Mapping

This chapter provides a table listing the Oracle Communications Data Model entities in the logical data model, and the physical database tables or views to which the logical entities have been implemented or "physicalized".

This chapter includes the following section:

Overview of Mapping and Inheritance in Oracle Communications Data Model

The physical manifestation of the logical data model into database tables and relationships is not necessarily a pure 1:1 mapping from logical entities to physical tables. Physically, Oracle Communications Data Model is setup for best performance, and minimal data disk storage, leveraging the database options and consulting best practices wherever possible. The foundation layer follows the Third normal Form rule ("the key, only the key and nothing but the key") while the analytics layer is setup for optimal reporting performance. Partitions, Indexes, primary and foreign keys, constraints, and Materialized Views are used to map the logical model in the best possible way by default.

The complete Oracle Communications Data Model model is installed into the database schema:

- `OCDM_SYS`: Schema includes the Oracle Communications Data Model tables from the foundation and analytics layers, including the OLAP cubes. This also includes the mining models and related objects like source tables, model building database packages, target tables and the specific views.

Inheritance with Subtypes and SuperEntities

Some logical entities are sub-types of super-entities. Physically, there are different ways to realize this. For example, `WIRELESS CALL EVENT` and `FIXED LINE CALL EVENT` are both sub-types of `RATED UDR EVENT`. To avoid data duplication, one could use either `RATED UDR EVENT` as a view of both tables or the sub-types could be a filtered view of the main table `RATED UDR EVENT`. The decision on how to materialize the logical entity is based on consulting experience.

Logical to Physical Mappings for Oracle Communications Data Model

Table 5–1 and Table 5–2 list the Oracle Communications Data Model entities in the logical data model, and the physical database tables or views to which the logical entities have been implemented or "physicalized".

Table 5–1 Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
802 SERVICE	DWR_EIGHT_ZERO_TWO_SRVC
ACCESS METHOD	DWR_ACCS_MTHD
ACCESS METHOD ACCOUNT ASSIGNMENT	DWR_ACCS_MTHD_ACCT_ASGN
ACCESS METHOD ASSIGNMENT	DWR_ACCS_MTHD_ASGN
ACCESS METHOD ASSIGNMENT TYPE	DWL_ACCS_MTHD_ASGN_TYP
ACCESS METHOD ELEMENT	DWR_ACCS_MTHD_ELMNT
ACCESS METHOD ELEMENT TYPE	DWL_ACCS_MTHD_ELMNT_TYP
ACCESS METHOD EQUIPMENT ASSIGNMENT	DWR_ACCS_MTHD_EQPMNT_ASGN
ACCESS METHOD GEOGRAPHY ASSIGNMENT	DWR_ACCS_MTHD_GEO_ASGN
ACCESS METHOD PARTY ASSIGNMENT	DWR_ACCS_MTHD_PRTY_ASGN
ACCESS METHOD PARTY ASSIGNMENT TYPE	DWL_ACCS_MTHD_PRTY_ASGN_TYP
ACCESS METHOD POOL	DWR_ACCS_MTHD_POOL
ACCESS METHOD PORTING HISTORY	DWB_ACCS_MTHD_PORT_HIST
ACCESS METHOD PRODUCT SUBSCRIPTION ASSIGNMENT	DWR_ACCS_MTHD_PROD_SBRP_ASGN
ACCESS METHOD SEGMENT	DWR_ACCS_MTHD_SGMNT
ACCESS METHOD SEGMENT PROD CAPABILITY RL	DWR_AM_SGMNT_PROD_CPBLTY_RL
ACCESS METHOD SERVICE ASSIGNMENT	DWR_ACCS_MTHD_SRVC_ASGN
ACCESS METHOD STATUS HISTORY	DWB_ACCS_MTHD_STAT_HIST
ACCESS METHOD STATUS REASON	DWL_ACCS_MTHD_STAT_RSN
ACCESS METHOD STATUS TYPE	DWL_ACCS_MTHD_STAT_TYP
ACCESS METHOD TYPE	DWL_ACCS_MTHD_TYP
ACCESSORIES	DWR_ACCSRS
ACCESSORIES INSTANCE	DWR_ACCSRS_INSTNC
ACCOUNT	DWR_ACCT
ACCOUNT ACCOUNTING CYCLE HISTORY	DWB_ACCT_ACCTNG_CYCL_HIST
ACCOUNT ADJUSTMENT REASON	DWL_ACCT_ADJ_RSN
ACCOUNT AGREEMENT RELATIONSHIP	DWR_ACCT_AGRMNT_RLTN
ACCOUNT ASSIGNMENT	DWR_ACCT_ASGN
ACCOUNT ASSIGNMENT REASON	DWL_ACCT_ASGN_RSN
ACCOUNT ASSIGNMENT TYPE	DWL_ACCT_ASGN_TYP
ACCOUNT BALANCE	DWB_ACCT_BAL
ACCOUNT BALANCE ADJUSTMENT TYPE	DWL_ACCT_BAL_ADJ_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
ACCOUNT BALANCE GROUP	DWR_ACCT_BAL_GRP
ACCOUNT BALANCE IMPACT	DWB_ACCT_BAL_IMPC
ACCOUNT BALANCE MONTH DRVD	DWD_ACCT_BAL_MO
ACCOUNT BALANCE TYPE	DWL_ACCT_BAL_TYP
ACCOUNT BILLING CYCLE HISTORY	DWR_ACCT_BLLG_CYCL_HIST
ACCOUNT BILLING FREQUENCY HISTORY	DWR_ACCT_BLLG_FRQNCY_HIST
ACCOUNT BILLING OCCURRENCE	DWB_ACCT_BLLG_OCCRNCE
ACCOUNT BILLING PERIOD HISTORY	DWR_ACCT_BLLG_PRD_HIST
ACCOUNT BUSINESS INTERACTION ROLE	DWR_ACCT_BSNS_INTRACN_RL
ACCOUNT COST	DWB_ACCT_COST
ACCOUNT CREDIT LIMIT	DWB_ACCT_CRDT_LMT
ACCOUNT DEBT	DWB_ACCT_DEBT
ACCOUNT DEBT HISTORY	DWB_ACCT_DEBT_HIST
ACCOUNT DEBT MONTH AGGR	DWA_ACCT_DEBT_MO
ACCOUNT DEBT MONTH DERIVED	DWD_ACCT_DEBT_MO
ACCOUNT EVENT TYPE	DWL_ACCT_EVT_TYP
ACCOUNT FIRST ACTIVITY DERIVED	DWD_ACCT_FRST_ACTVTY
ACCOUNT LAST ACTIVITY DERIVED	DWD_ACCT_LAST_ACTVTY
ACCOUNT MANAGEMENT HISTORY	DWB_ACCT_MNGMNT_HIST
ACCOUNT PARTY PRODUCT OFFERING RELATIONSHIP	DWR_ACCT_PRTY_PROD_OFR_RLTN
ACCOUNT PAYMENT	DWB_ACCT_PYMT
ACCOUNT PAYMENT DAY DRVD	DWD_ACCT_PYMT_DAY
ACCOUNT PAYMENT METHOD	DWR_ACCT_PYMT_MTHD
ACCOUNT PAYMENT METHOD STATUS	DWB_ACCT_PYMT_MTHD_STAT
ACCOUNT PAYMENT METHOD STATUS HIST DRVD	DWD_ACCT_PYMT_MTHD_STAT_HIST
ACCOUNT PAYMENT METHOD STATUS REASON	DWL_ACCT_PYMT_MTHD_STAT_RSN
ACCOUNT PAYMENT METHOD STATUS TYPE	DWL_ACCT_PYMT_MTHD_STAT_TYP
ACCOUNT PAYMENT MONTH AGGR	DWA_ACCT_PYMT_MO
ACCOUNT PAYMENT PAYMENT PLAN ASSIGNMENT	DWB_ACCT_PYMT_PYMT_PLN_ASGN
ACCOUNT PAYMENT PLAN ASSIGNMENT	DWR_ACCT_PYMT_PLN_ASGN
ACCOUNT PREFERRED INVOICE DELIVERY	DWR_ACCT_PREF_INVC_DLVRY
ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY	DWB_ACCT_PROD_OFR_PRTCPTN_HIST
ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT	DWR_ACCT_PROD_SBRP_ASGN
ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT REASON	DWL_ACCT_PROD_SBRP_ASGN_RSN
ACCOUNT PROFILE	DWR_ACCT_PRFL
ACCOUNT REFUND REASON	DWL_ACCT_RFND_RSN

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
ACCOUNT ROLE TYPE	DWL_ACCT_RL_TYP
ACCOUNT SEGMENT	DWR_ACCT_SGMNT
ACCOUNT SEGMENT ASSIGNMENT HISTORY	DWR_ACCT_SGMNT_ASGN_HIST
ACCOUNT SEGMENTATION MODEL	DWR_ACCT_SGMNT_MDL
ACCOUNT STATISTIC MONTH AGGR	DWA_ACCT_STTSTC_MO
ACCOUNT STATUS HISTORY	DWB_ACCT_STAT_HIST
ACCOUNT STATUS REASON	DWL_ACCT_STAT_RSN
ACCOUNT STATUS TYPE	DWL_ACCT_STAT_TYP
ACCOUNT TAX EXEMPT ASSIGNMENT	DWR_ACCT_TAX_EXMPT_ASGN
ACCOUNT TYPE	DWL_ACCT_TYP
ACCOUNTING CYCLE	DWL_ACCT_CYCL
ACCOUNTING ITEM CATEGORY	DWL_ACCT_ITEM_CTGRY
ACCRUAL EVENT	DWB_ACCRUAL_EVT
ACTIVITY CATEGORY	DWL_ACTVTY_CTGRY
ACTIVITY RELATIONSHIP TYPE	DWL_ACTVTY_RSLT_TYP
ACTIVITY RESULT TYPE	DWL_ACTVTY_RSLT_TYP
ACTIVITY TYPE	DWL_ACTVTY_TYP
ADDITIONAL TEXT	DWR_ADTNL_TXT
ADDRESS LOCATION	DWR_ADDR_LOC
ADDRESS LOCATION ADMIN AREA ASSIGNMENT	DWR_ADDR_LOC_ADMIN_AREA_ASGN
ADDRESS LOCATION NAME	DWR_ADDR_LOC_NAME
ADDRESS PHONE	DWR_ADDR_PHONE
ADDRESS RELATED	DWR_ADDR_RLTD
ADDRESS RELATED REASON	DWL_ADDR_RLTD_RSN
ADDRESS RELATED TYPE	DWL_ADDR_RLTD_TYP
ADDRESS STATUS	DWL_ADDR_STAT
ADDRESS STATUS HISTORY	DWB_ADDR_STAT_HIST
ADDRESS STATUS REASON	DWL_ADDR_STAT_RSN
ADDRESS TYPE	DWL_ADDR_TYP
ADDRESS VERIFICATION TYPE	DWL_ADDR_VRFY_TYP
ADHOC COLLECTION	DWB_ADHOC_COLLCTN
ADJUSTMENT TYPE	DWL_ADJ_TYP
ADMINISTRATIVE AREA	DWR_ADMINSTVE_AREA
ADVERTISING PERIOD	DWR_ADVR_PRD
ADVERTISING QUARTER	DWR_ADVR_QTR
ADVERTISING WEEK	DWR_ADVR_WK
ADVERTISING YEAR	DWR_ADVR_YR

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
AF SERVICE	DWR_AF_SRVC
AGE BAND	DWL_AGE_BND
AGE GROUP	DWL_AGE_GRP
AGE ON NET BAND	DWL_AGE_ON_NET_BND
AGENT	DWR_AGNT
AGGREGATION INTERFACE	DWR_AGGRTN_INTRFC
AGREEMENT	DWR_AGRMNT
AGREEMENT ACCOUNT SUBSCRIPTION PRODUCT AGGR	DWA_AGRMNT_ACCT_SBRP_PROD
AGREEMENT APPROVAL	DWB_AGRMNT_APRVL
AGREEMENT APPROVAL ASSIGNMENT	DWB_AGRMNT_APRVL_ASGN
AGREEMENT ASSIGNMENT	DWR_AGRMNT_ASGN
AGREEMENT ASSIGNMENT REASON	DWL_AGRMNT_ASGN_RSN
AGREEMENT ASSIGNMENT TYPE	DWL_AGRMNT_ASGN_TYP
AGREEMENT CHANGE INITIATOR TYPE	DWL_AGRMNT_CHNG_INTTR_TYP
AGREEMENT CHANGE REASON	DWL_AGRMNT_CHNG_RSN
AGREEMENT CHANGE TYPE	DWL_AGRMNT_CHNG_TYP
AGREEMENT CHANGED DRVD	DWD_AGRMNT_CHNG
AGREEMENT DOCUMENT	DWR_AGRMNT_DOC
AGREEMENT DRVD	DWD_AGRMNT
AGREEMENT INTENT	DWR_AGRMNT_INTNT
AGREEMENT ITEM	DWR_AGRMNT_ITEM
AGREEMENT PRODUCT SPEC ASSIGNMENT	DWR_AGRMNT_PROD_SPEC_ASGN
AGREEMENT REVENUE DAY DRVD	DWD_AGRMNT_RVN_DAY
AGREEMENT SLA RELATIONSHIP	DWR_AGRMNT_SRVCLVL_AGRMNT_RLTN
AGREEMENT STATUS	DWB_AGRMNT_STAT
AGREEMENT STATUS REASON	DWL_AGRMNT_STAT_RSN
AGREEMENT STATUS TYPE	DWL_AGRMNT_STAT_TYP
AGREEMENT TERM	DWB_AGRMNT_TERM
AGREEMENT TERM TYPE	DWL_AGRMNT_TERM_TYP
AGREEMENT TYPE	DWL_AGRMNT_TYP
ALLOWANCE SBRP PRICE ALTERNATION	DWR_ALWNCE_SBRP_PRICE_ALTRTN
AMERICAN PROPERTY ADDRESS	DWR_AMRCN_PRPTY_ADDR
ANZSIC CLASSIFICATION	DWR_ANZSIC_CLSFCTN
APPOINTMENT	DWB_APNMNT
APPOINTMENT CALENDAR	DWB_APNMNT_CLNDR
APPOINTMENT TYPE	DWL_APNMNT_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
ARPU BAND	DWL_ARPU_BND
ARPU BASE CUSTOMER TYPE AGGR	DWA_ARPU_BASE_CUST_TYP
ASSET	DWR_ASSET
ASSET APPRAISAL HISTORY	DWB_ASSET_APPRSL_HIST
ASSET CONDITION HISTORY	DWB_ASSET_CNDTN_HIST
ASSET DEPRECIATION HISTORY	DWB_ASSET_DEPRCN_HIST
ASSET PARTY ASSOCIATION	DWR_ASSET_PRTY_ASSOCTN
ASSET SITE ASSIGNMENT	DWR_ASSET_SITE_ASGN
ASSET TYPE	DWL_ASSET_TYP
ATM INTERFACE	DWR_ATM_INTRFC
AUTHORIZATION METHOD	DWL_ATHRZTN_MTHD
AUTONOMOUS SYSTEM	DWR_ATONOMS_SYS
AUXILIARY COMPONENT	DWR_AUXILIARY_CMPNT
AWARD LEVEL	DWL_AWRD_LVL
BANK	DWR_BNK
BANK DIRECT DEBIT CHANNEL	DWR_BNK_DRCT_DEBIT_CHNL
BARING REASON	DWL_BARNG_RSN
BASEBAND UNIT	
BASE DAY	DWR_BASE_DAY
BASE STATION CONTROLLER	DWR_BASE_STN_CNTRLR
BASE TRANSCEIVER STATION	DWR_BASE_TRNSCVR_STN
BER FER ERROR RATIO DAY DRVD	DWD_BER_FER_ERR_RATIO_DAY
BER FER ERROR RATIO MONTH AGGR	DWA_BER_FER_ERR_RATIO_MO
BER FER TYPE	DWL_BER_FER_TYP
BILLING CYCLE	DWR_BLLG_CYCL
BILLING FREQUENCY	DWL_BLLG_FRQNCY
BILLING OCCURRENCE TYPE	DWL_BLLG_OCCRNCE_TYP
BILLING PERIOD	DWL_BLLG_PRD
BILLING STATUS CATEGORY	DWL_BLLG_STAT_CTGRY
BILLING STATUS REASON	DWL_BLLG_STAT_RSN
BILLING STATUS TYPE	DWL_BLLG_STAT_TYP
BLACK LIST HISTORY	DWB_BLK_LST_HIST
BRAND	DWR_BRND
BRIDGING PROTOCOL	DWR_BRDGNG_PROTCL
BROADBAND RATING PLAN	DWR_BRDBND_RTNG_PLN
BROADBAND SERVICE	DWR_BRDBND_SRVC
BROADBAND USAGE EVENT	DWB_BRDBND_USG_EVT

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
BROWSER TYPE	DWL_BROWSER_TYP
BROWSER VERSION	DWR_BROWSER_VRSN
BUSINESS ASSET	DWR_BSNS_ASSET
BUSINESS HALF MONTH	DWR_BSNS_HLF_MO
BUSINESS HALF YEAR	DWR_BSNS_HLF_YR
BUSINESS INTERACTION	DWB_BSNS_INTRACN
BUSINESS INTERACTION ASSIGNMENT	DWR_BSNS_INTRACN_ASGN
BUSINESS INTERACTION ASSIGNMENT TYPE	DWL_BSNS_INTRACN_ASGN_TYP
BUSINESS INTERACTION CHARACTERISTIC	DWR_BSNS_INTRACN_CHAR
BUSINESS INTERACTION CHARACTERISTIC TYPE	DWL_BSNS_INTRACN_CHAR_TYP
BUSINESS INTERACTION CHARACTERISTIC VALUE	DWR_BSNS_INTRACN_CHAR_VAL
BUSINESS INTERACTION HISTORY	DWB_BSNS_INTRACN_HIST
BUSINESS INTERACTION ITEM	DWB_BSNS_INTRACN_ITEM
BUSINESS INTERACTION ITEM PRICE	DWB_BSNS_INTRACN_ITEM_PRICE
BUSINESS INTERACTION ITEM SPECIFICATION	DWR_BSNS_INTRACN_ITEM_SPEC
BUSINESS INTERACTION LOCATION ASSIGNMENT	DWR_BSNS_INTRACN_LOC_ASGN
BUSINESS INTERACTION PAYMENT ASSIGNMENT	DWB_BSNS_INTRACN_PYMT_ASGN
BUSINESS INTERACTION ROLE	DWB_BSNS_INTRACN_RL
BUSINESS INTERACTION SPECIFICATION	DWR_BSNS_INTRACN_SPEC
BUSINESS INTERACTION STATUS REASON	DWL_BSNS_INTRACN_STAT_RSN
BUSINESS INTERACTION VERSION	DWB_BSNS_INTRACN_VRSN
BUSINESS LEGAL STATUS	DWL_BSNS_LEGAL_STAT
BUSINESS MONTH	DWR_BSNS_MO
BUSINESS QUARTER	DWR_BSNS_QTR
BUSINESS UNIT JOB ROLE	DWR_BSNS_UNIT_JB_RL
BUSINESS UNIT SHIFT	DWR_BSNS_UNIT_SHFT
BUSINESS WEEK	DWR_BSNS_WK
BUSINESS YEAR	DWR_BSNS_YR
CABLE	DWR_CBL
CABLE MODEM	DWR_CBL_MDM
CALENDAR HALF MONTH	DWR_CLNDR_HLF_MO
CALENDAR HALF YEAR	DWR_CLNDR_HLF_YR
CALENDAR MONTH	DWR_CLNDR_MO
CALENDAR QUARTER	DWR_CLNDR_QTR
CALENDAR WEEK	DWR_CLNDR_WK
CALENDAR YEAR	DWR_CLNDR_YR
CALL CATEGORY	DWL_CALL_CTGRY

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
CALL CENTER	DWR_CALL_CNTR
CALL CENTER AGENT	DWR_CALL_CNTR_AGNT
CALL CENTER AGENT TYPE	DWL_CALL_CNTR_AGNT_TYP
CALL CENTER CALL MONTH AGGR	DWA_CALL_CNTR_CALL_MO
CALL CENTER CASE MONTH AGGR	DWA_CALL_CNTR_CASE_MO
CALL CENTER CASE SUB TYPE	DWL_CALL_CNTR_CASE_SUB_TYP
CALL CENTER CASE TITLE	DWL_CALL_CNTR_CASE_TTL
CALL CENTER CASE TYPE	DWL_CALL_CNTR_CASE_TYP
CALL CENTER SERVICE CAPABILITY	DWR_CALL_CNTR_SRVC_CAPBLTY
CALL DIRECTION	DWL_CALL_DRCTN
CALL FORWARD	DWR_CALL_FRWD
CALL OTHER TYPE	DWL_CALL_OTHR_TYP
CALL RECYCLED REASON	DWL_CALL_RCYLD_RSN
CALL ROUTING TYPE	DWL_CALL_RUTNG_TYP
CALL SERVICE TYPE	DWL_CALL_SRVC_TYP
CALL SOURCE DESTINATION	DWR_CALL_SRC_DSTN
CALL SUCCESS FAILURE TYPE	DWL_CALL_SUCC_FAIL_TYP
CALL SURCHARGE	DWL_CALL_SRCHRG
CALL TERMINATION REASON	DWL_CALL_TMNT_RSN
CALL TYPE	DWL_CALL_TYP
CALLER ID	DWR_CALLR_ID
CAMPAIGN	DWR_CMPGN
CAMPAIGN CHANNEL	DWR_CMPGN_CHNL
CAMPAIGN CHANNEL ASSIGNMENT	DWR_CMPGN_CHNL_ASGN
CAMPAIGN CHANNEL TYPE	DWL_CMPGN_CHNL_TYP
CAMPAIGN CHARACTERISTIC	DWR_CMPGN_CHAR
CAMPAIGN CHARACTERISTIC VALUE	DWR_CMPGN_CHAR_VAL
CAMPAIGN COST	DWB_CMPGN_COST
CAMPAIGN DOCUMENT	DWR_CMPGN_DOC
CAMPAIGN HISTORY DAY DRVD	DWD_CMPGN_HIST_DAY
CAMPAIGN MANAGEMENT HISTORY	DWR_CMPGN_MGMT_HIST
CAMPAIGN MEDIA	DWR_CMPGN_MEDIA
CAMPAIGN MEDIA SELLING ITEM	DWR_CMPGN_MEDIA_SLNG_ITEM
CAMPAIGN MESSAGE	DWR_CMPGN_MSG
CAMPAIGN MESSAGE CREATIVE	DWB_CMPGN_MSG_CRTVE
CAMPAIGN MESSAGE DEPICTION	DWR_CMPGN_MSG_DPCT
CAMPAIGN PURPOSE TYPE	DWL_CMPGN_PRPS_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
CAMPAIGN RELATIONSHIP	DWR_CMPGN_RLTN
CAMPAIGN STATUS	DWL_CMPGN_STAT
CAMPAIGN TERM VALUE	DWR_CMPGN_TERM_VAL
CAMPAIGN TYPE	DWL_CMPGN_TYP
CANNIBALIZATION DETAIL DAY DRVD	DWD_CANBLZTN_DTL_DAY
CAPACITY	DWR_CPCTY
CARD	DWR_CARD
CARD HOLDER VERIFICATION TYPE	DWL_CARD_HLDR_VRFY_TYP
CARD RELATIONSHIP	DWR_CARD_RLTN
CARD TYPE	DWL_CARD_TYP
CELL	DWR_CELL
CELL OUTAGE REASON	DWL_CELL_OUTAGE_RSN
CELL SECTOR	DWR_CELL_SCTR
CELL SITE	DWR_CELL_SITE
CELL SITE COST	DWB_CELL_SITE_COST
CELL SITE TYPE	DWL_CELL_SITE_TYP
CELL STATISTIC DAY DRVD	DWD_CELL_STTSTC_DAY
CELL STATISTIC MONTH AGGR	DWA_CELL_STTSTC_MO
CELL TYPE	DWL_CELL_TYP
CERTIFICATE TYPE	DWL_CRTFCT_TYP
CFS SPEC VERSION DETAIL	DWR_CFS_SPEC_VRSN_DTL
CHANGE PROPOSED BY TYPE	DWL_CHNG_PPSD_BY_TYP
CHANNEL	DWR_CHNL
CHANNEL COST	DWB_CHNL_COST
CHANNEL TYPE	DWL_CHNL_TYP
CHASSIS	DWR_CHASSIS
CHASSIS POSITION	DWR_CHASSIS_POSN
CHURN SVM FACTOR	TBS
CHURN SVM ROC	TBS
CIRCUIT CATEGORY	DWL_CRCUT_CTGRY
CIRCUIT COMPONENT	DWR_CRCUT_CMPNT
CIRCUIT RENTAL	DWB_CRCUT_RNTL
CIRCUIT RENTAL EVENT TYPE	DWL_CRCUT_RNTL_EVT_TYP
CIRCUIT TRAFFIC	DWB_CRCUT_TRFC
CIRCUIT TYPE	DWL_CRCUT_TYP
CLASS BASE WEIGHTED FAIR QUEUE SERVICE	DWR_CLASS_BASEWTD_FAIRQUE_SRVC
CLASSIFIER SERVICE	DWR_CLSSIFR_SRVC

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
CLIENT	
CLIENT HOST	DWR_CLNT_HOST
CLIENT VERSION	No table
COLLECTION	DWR_COLLCTN
COLLECTION AGENCY	DWR_COLLCTN_AGNCY
COLLECTION TYPE	DWL_COLLCTN_TYP
COMMISSION DRVD	DWD_CMISN
COMMISSION MONTH AGGR	DWA_CMISN_MO
COMMISSION TYPE	DWL_CMISN_TYP
COMMUNICATION SERVICE	DWR_COMUNICTN_SRVC
COMP INTEL CHARACTERISTIC	DWR_COMP_INTL_CHAR
COMP INTEL CHARACTERISTIC VALUE	DWR_COMP_INTL_CHAR_VAL
COMP INTEL MARKET SEGMENT	DWR_COMP_INTL_MKT_SGMNT
COMP PROD CRRL CHARACTERISTIC	DWR_COMP_PROD_CRRL_CHAR
COMP PROD CRRL CHARACTERISTIC ASSIGNMENT	DWR_COMP_PROD_CRRL_CHAR_ASGN
COMP PROD CRRL CHARACTERISTIC RELATIONSHIP	DWR_COMP_PROD_CRRL_CHAR_RLTN
COMP PROD CRRL CHARACTERISTIC VALUE	DWR_COMP_PROD_CRRL_CHAR_VAL
COMPENSATORY REASON	DWL_CMPNSATRY_RSN
COMPETITIVE TIER	DWR_CMPTVE_TIER
COMPETITOR	DWR_CMPTR
COMPETITOR INTELLIGENCE	DWR_CMPTR_INTLGNCE
COMPETITOR INTELLIGENCE PARTY ROLE	DWR_CMPTR_INTLGNCE_PRTY_RL
COMPETITOR MARKET SEGMENT ASSIGNMENT	DWR_CMPTR_MKT_SGMNT_ASGN
COMPETITOR MARKET SEGMENT SWOT	DWR_CMPTR_MKT_SGMNT_SWOT
COMPETITOR PRODUCT CORRELATION	DWR_CMPTR_PROD_CRLTN
COMPETITOR SWOT	DWR_CMPTR_SWOT
COMPETITOR TIER ASSIGNMENT	DWR_CMPTR_TIER_ASGN
COMPLEX ADDRESS	DWR_COMPLEX_ADDR
COMPOSITE COMP PROD CRRL CHARACTERISTIC	DWR_CMPST_COMP_PROD_CRL_CHAR
COMPOSITE PROD OFFER PRICE COMPONENT ASSIGNMENT	DWR_CMST_PRODOFR_PRC_CMNT_ASGN
COMPOSITE PRODUCT SPECIFICATION	DWR_CMPST_PROD_SPEC
COMPOSITE PRODUCT SPECIFICATION ASSIGNMENT	DWR_CMPST_PROD_SPEC_ASGN
COMPOSITE PRODUCT SPECIFICATION CHARGE TYPE	DWL_CMPST_PROD_SPEC_CHRG_TYP
COMPOSITE PRODUCT SPECIFICATION TYPE	DWL_CMPST_PROD_SPEC_TYP
COMPOSITE PRODUCT SUBSCRIPTION PRICE	
COMPOSITE SERVICE	DWR_CMPST_SRVC

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
COMPOSITE SERVICE INCLUSION	DWR_CMPST_SRVC_INCLSN
COMPOSITE SERVICE TYPE INCLUSION	DWR_CMPST_SRVC_TYP_INCLSN
COMPOUND CONDITIONING ELEMENT	DWR_CMPND_CNDITNNG_ELMNT
COMPOUND RESOURCE	DWR_CMPND_RSCE
COMPOUND RESOURCE COLLECTION	DWR_CMPND_RSCE_COLLCTN
COMPOUND RESOURCE COMPOUND DETAIL ASSIGNMENT	DWR_CMPND_RSCE_CMPND_DTL_ASGN
COMPOUND RESOURCE DETAIL	DWR_CMPND_RSCE_DTL
COMPOUND RESOURCE DETAIL TYPE	DWL_CMPND_RSCE_DTL_TYP
COMPOUND RESOURCE PHYSICAL DETAIL	TBS
COMPOUND RESOURCE ROLE	DWR_CMPND_RSCE_RL
COMPOUND RESOURCE ROLE ASSIGNMENT	DWR_CMPND_RSCE_RL_ASGN
COMPOUND RESOURCE ROLE SPEC	DWR_CMPND_RSCE_RL_SPEC
COMPOUND RESOURCE SPEC	DWR_CMPND_RSCE_SPEC
COMPOUND RESOURCE SPEC ATOMIC	DWR_CMPND_RSCE_SPEC_ATMC
COMPOUND RESOURCE SPEC COMPOSITE	DWR_CMPND_RSCE_SPEC_CMPST
COMPOUND RESOURCE TP DETAIL	DWR_CMPND_RSCE_TP_DTL
COMPOUND RESOURCE UNIT	DWR_CMPND_RSCE_UNIT
CONFIGURABLE PRODSPECCHAR PRODSPEC ASSIGNMENT	DWR_CFGBL_PROSPCCHAR_PROSPCAGN
CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTIC	DWR_CFGBL_PROD_SPEC_CHAR
CONNECTION	DWR_CNCTN
CONNECTION TERMINATION POINT	DWR_CNCTN_TMNT_PNT
CONSEQUENCE PERFORMANCE NOTIFICATION	DWB_CNSEQ_PRFMNC_NTFCTN
CONSEQUENCE PERFORMANCE NOTIFICATION SPEC	DWR_CNSEQ_PRFMNC_NTFCTN_SPEC
CONTACT CENTER DAY DERIVED	DWD_CNTCT_CNTR_DAY
CONTACT LIST	DWR_CNCT_LST
CONTACT LIST CHANGE REASON	DWL_CNCT_LST_CHNG_RSN
CONTACT LIST COST	DWB_CNCT_LST_COST
CONTACT LIST RECURRENCE TYPE	DWL_CNCT_LST_RECRNC_TYP
CONTACT MEDIUM	DWL_CNTCT_MEDIUM
CONTACT ROLES	DWL_CNCT_RLS
CONTENT	DWR_CNTNT
CONTENT DELIVERY EVENT	DWB_CNTNT_DLVRY_EVT
CONTENT PRICE	DWR_CNTNT_PRICE
CONTENT PRICING TYPE	DWL_CNTNT_PRCNG_TYP
CONTENT PROVIDER	DWR_CNTNT_PRVDR

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
CONTENT TYPE	DWL_CNTNT_TYP
CORE INTERFACE	DWR_CORE_INTRFC
COST	DWB_COST
COST CENTER	DWR_COST_CNTR
COST CENTER BUDGET	DWB_COST_CNTR_BDGT
COST CENTER DERIVED	DWD_COST_CNTR
COST CENTER MONTH AGGR	DWA_COST_CNTR_MO
COST REASON	DWL_COST_RSN
COST SUBTYPE	DWL_COST_SUBTYP
COST TYPE	DWL_COST_TYP
COUNT DAY DRVD	DWD_CNT_DAY
COUNT MONTH AGGR	DWA_CNT_MO
COUPON SCAN	DWL_CPN_SCAN
COUPON TYPE	DWL_CPN_TYP
COURIER	DWR_COURIER
COURIER COST	DWB_COURIER_COST
CPE LOGICAL DEVICE ROLE	DWR_CPE_LGICL_DVC_RL
CREDIT CATEGORY	DWR_CRDT_CTGRY
CREDIT SCORE PROVIDER	DWR_CRDT_SCR_PRVDR
CROSSED THRESHOLD	DWR_CROSSD_THRSHLD
CURRENCY	DWL_CRNCY
CURRENCY EXCHANGE RATE	DWB_CRNCY_EXCHNG_RATE
CURRENCY GEOGRAPHY ENTITY ASSIGNMENT	DWR_CRNCY_GEO_ENT_ASGN
CUSTOM QUEUING SERVICE	DWR_CSTM_QUENG_SRVC
CUSTOMER	DWR_CUST
CUSTOMER ACCOUNT	DWR_CUST_ACCT
CUSTOMER ACQUISITION SUMMARY MONTH AGGR	DWA_CUST_ACQSTN_SUMM_MO
CUSTOMER ADDRESS	DWR_CUST_ADDR
CUSTOMER AFFILIATION	DWR_CUST_AFFLTN
CUSTOMER CHURN MONTH AGGR	DWA_CUST_CHRN_MO
CUSTOMER CLASS	DWL_CUST_CLASS
CUSTOMER CLASS ASSIGNMENT	DWR_CUST_CLASS_ASGN
CUSTOMER CLUSTER	DWR_CUST_CLSTR
CUSTOMER CLUSTER TYPE	DWL_CUST_CLSTR_TYP
CUSTOMER COMMENT	TBS
CUSTOMER COMMUNITY	DWR_CUST_COMMUNITY
CUSTOMER COST	DWB_CUST_COST

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
CUSTOMER COST DRVD	DWD_CUST_COST
CUSTOMER COST MONTH AGGR	DWA_CUST_COST_MO
CUSTOMER DEBT COLLECTION MONTH AGGR	DWA_CUST_DEBT_COLLCTN_MO
CUSTOMER DECISION TREE NODE	TBS
CUSTOMER DNA DRVD	DWD_CUST_DNA
CUSTOMER DOCUMENT	DWR_CUST_DOC
CUSTOMER EQUIPMENT INSTALLATION DAY DRVD	DWD_CUST_EQPMNT_INSTLTN_DAY
CUSTOMER EQUIPMENT INSTALLATION MO AGGR	DWA_CUST_EQPMNT_INSTLTN_MO
CUSTOMER FACING SERVICE	DWR_CUST_FCNG_SRVC
CUSTOMER FACING SERVICE ROLE	DWR_CUST_FCNG_SRVC_RL
CUSTOMER FACING SERVICE SPECIFICATION	DWR_CUST_FCNG_SRVC_SPEC
CUSTOMER FACING SERVICE SPECIFICATION ATOMIC	DWR_CUST_FCNG_SRVC_SPEC_ATMC
CUSTOMER FACING SERVICE SPECIFICATION COMPOSITE	DWR_CUST_FCNG_SRVC_SPEC_CMPST
CUSTOMER FACING SERVICE SPECIFICATION ROLE	DWR_CUST_FCNG_SRVC_SPEC_RL
CUSTOMER FACING SERVICE SPECIFICATION VERSION	DWR_CUST_FCNG_SRVC_SPEC_VRSN
CUSTOMER FIELD SERVICE ACTIVITY	DWB_CUST_FLD_SRVC_ACTVTY
CUSTOMER FIELD SERVICE DETAIL	DWB_CUST_FLD_SRVC_DTL
CUSTOMER GROSS ORDER QUARTERLY	DWA_CUST_GROSS_ORDRS_QTR
CUSTOMER GROUP	DWL_CUST_GRP
CUSTOMER GROUP ASSIGNMENT	DWR_CUST_GRP_ASGN
CUSTOMER GROUP ITEM	DWR_CUST_GRP_ITEM
CUSTOMER INDIVIDUAL	DWR_CUST_INDVL
CUSTOMER OCCASION	DWR_CUST_OCCSN
CUSTOMER OCCASION TYPE	DWL_CUST_OCCSN_TYP
CUSTOMER ORDER	DWB_CUST_ORDR
CUSTOMER ORDER DAY DERIVED	DWD_CUST_ORDR_DAY
CUSTOMER ORDER DOCUMENT	DWR_CUST_ORDR_DOC
CUSTOMER ORDER LINE ITEM	DWB_CUST_ORDR_LN_ITEM
CUSTOMER ORDER LINE ITEM DAY DERIVED	DWD_CUST_ORDR_LN_ITEM_DAY
CUSTOMER ORDER LINE ITEM STATE ASSIGN	DWB_CUST_ORDR_LN_ITEM_ST_ASGN
CUSTOMER ORDER MONTH AGGR	DWA_CUST_ORDR_MO
CUSTOMER ORDER PAYMENT	DWB_CUST_ORDR_PYMT
CUSTOMER ORDER PRIORITY TYPE	DWL_CUST_ORDR_PRIORITY_TYP
CUSTOMER ORDER STATE ASSIGNMENT	DWB_CUST_ORDR_STATE_ASGN
CUSTOMER ORDER STATE CHANGE REASON	DWL_CUST_ORDR_STATE_CHNG_RSN
CUSTOMER ORGANIZATION	DWR_CUST_ORG

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
CUSTOMER PREFERENCE	DWR_CUST_PREF
CUSTOMER PRODUCT AFFILIATION	TBS
CUSTOMER RELATIONSHIP	DWR_CUST_RLTN
CUSTOMER RELATIONSHIP TYPE	DWL_CUST_RLTN_TYP
CUSTOMER RESTRICTED INFO	DWR_CUST_RSTRCT_INFO
CUSTOMER REVENUE BAND	DWL_CUST_RVN_BND
CUSTOMER REVENUE BAND ASSIGNMENT	DWR_CUST_RVN_BND_ASGN
CUSTOMER REVENUE TYPE	DWL_CUST_RVN_TYP
CUSTOMER RFMP SCORE	DWD_CUST_RFMP_SCR
CUSTOMER SCORE	DWR_CUST_SCR
CUSTOMER SEGMENT	DWR_CUST_SGMNT
CUSTOMER SEGMENT DETAIL	TBS
CUSTOMER SENTIMENT MANUAL SCORE	TBS
CUSTOMER SIC ASSIGNMENT	DWR_CUST_SIC_ASGN
CUSTOMER SKU SALES RETURN DAY DRVD	DWD_CUST_SKU_SL_RETRN_DAY
CUSTOMER SOURCE	DWR_CUST_SRC
CUSTOMER STATUS REASON	DWL_CUST_STAT_RSN
CUSTOMER TYPE	DWL_CUST_TYP
DATA SERVICE EVENT	DWB_DATA_SRVC_EVT
DATA USAGE DAY DRVD	DWD_DATA_USG_DAY
DATA USAGE MONTH AGGR	DWA_DATA_USG_MO
DAY	DWR_DAY
DAY ACTUAL CONDITION	DWR_DAY_ACT_CONDITION
DAY TODATE TRANSFORMATION	DWR_DAY_TODATE_TRANS
DAY TRANSFORMATION	DWR_DAY_TRANS
DEAL	DWR_DEAL
DEAL LINE ITEM	DWR_DEAL_LN_ITEM
DEALER	DWR_DLR
DEALER DISCOUNT GROUP ASSIGNMENT	DWR_DLR_DISC_GRP_ASGN
DEBT AGING BAND	DWL_DEBT_AGNG_BND
DEFICIT ROUND ROBIN SCHEDULING SERVICE	DWR_DFCT_RND_RBIN_SCHDLNG_SRVC
DEMOGRAPHIC CHARACTERISTIC	DWR_DEMOG_CHAR
DEMOGRAPHIC CHARACTERISTIC VALUE	DWR_DEMOG_CHAR_VAL
DEMOGRAPHY ATTRIBUTE	DWR_DEMOG_ATRIB
DEMOGRAPHY GROUP	DWR_DEMOG_GRP
DERIVED VALUE	DWR_DRVD_VAL
DESTINATION TYPE	DWL_DSTN_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
DEVICE INTERFACE	DWR_DVC_INTRFC
DEVICE INTERFACE DETAIL	DWR_DVC_INTRFC_DTL
DEVICE INTERFACE PHYSICAL PORT ASSIGNMENT	DWR_DVC_INTRFC_PHY_PRT_ASGN
DEVICE INTERFACE ROLE	DWR_DVC_INTRFC_RL
DEVICE INTERFACE TP ASSIGNMENT	DWR_DVC_INTRFC_TP_ASGN
DIFFSERV SERVICE	DWR_DIFFSERV_SRVC
DIRECT DEBIT STATUS REASON	DWL_DRCT_DEBIT_STAT_RSN
DISCOUNT GROUP	DWR_DISC_GRP
DISCOUNT LINE ITEM	DWB_DISC_LI
DISCOUNT SBRP PRICE ALTERATION	DWR_DISC_SBRP_PRICE_ALTRTN
DISPOSITION TYPE	DWL_DSPSTN_TYP
DISTANCE BAND	DWL_DSTNC_BND
DIVERT RETRIEVE REASON	DWL_DVRT_RTRV_RSN
DIVERT RETRIEVE TYPE	DWL_DVRT_RTRV_TYP
DOCUMENT CONDITION TYPE	DWL_DOC_CNDTN_TYP
DOCUMENT TYPE	DWL_DOC_TYP
DOCUMENT TYPE GROUP	DWL_DOC_TYP_GRP
DOCUMENT TYPE GROUP ASSIGNMENT	DWR_DOC_TYP_GRP_ASGN
DOMAIN	DWR_DOMAIN
DOMAIN TYPE	DWL_DOMAIN_TYP
DROPPER SERVICE	DWR_DRPPR_SRVC
DSL MODEM	DWR_DSL_MDM
EDGE INTERFACE	DWR_EDGE_INTRFC
EDUCATION	DWL_EDU
EF SERVICE	DWR_EF_SRVC
EMAIL ADDRESS	DWR_EML_ADDR
EMAIL SERVICE	DWR_EML_SRVC
EMPLOYEE	DWR_EMP
EMPLOYEE ACTUAL LABOR HOURLY	DWB_EMP_ACT_LBR_HRLY
EMPLOYEE ACTUAL LABOR SALARIED	DWB_EMP_ACT_LBR_SALARIED
EMPLOYEE COST	DWB_EMP_COST
EMPLOYEE DESIGNATION	DWL_EMP_DESIG
EMPLOYEE DISCOUNT GROUP ASSIGNMENT	DWR_EMP_DISC_GRP_ASGN
EMPLOYEE EXPENSE REPORT	DWB_EMP_EXP_RPT
EMPLOYEE EXPENSE REPORT ITEM	DWB_EMP_EXP_RPT_ITEM
EMPLOYEE EXPENSE REPORT STATE	DWB_EMP_EXP_RPT_STATE
EMPLOYEE JOB ROLE ASSIGNMENT	DWR_EMP_JB_RL_ASGN

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
EMPLOYEE JOB ROLE TYPE	DWL_EMP_JB_RL_TYP
EMPLOYEE LANGUAGE CAPABILITY	DWR_EMP_LANG_CAPBLTY
EMPLOYEE RESTRICTED INFO	DWR_EMP_RSTRCT_INFO
EMPLOYEE SCHEDULE	DWR_EMP_SCHL
EMPLOYEE TRAINING RECORD	DWB_EMP_TRNG_REC
EMPLOYEE TYPE	DWL_EMP_TYP
ENROLL CHANNEL	DWL_ENRL_CHNL
ENROLL TYPE	DWL_ENRL_TYP
ENTITY	DWR_ENT
ENTITY ROLE	DWR_ENT_RL
ENTITY SPECIFICATION	DWR_ENT_SPEC
ENTRY METHOD	DWL_ENTRY_MTHD
ENVIRONMENT TYPE	DWL_ENV_TYP
EQUIPMENT	DWR_EQPMNT
EQUIPMENT CENTER	DWR_EQPMNT_CNTR
EQUIPMENT CENTER COST	DWB_EQPMNT_CNTR_COST
EQUIPMENT FUNCTIONALITY	DWR_EQPMNT_FNCTNLTY
EQUIPMENT FUNCTIONALITY ASSIGNMENT	DWR_EQPMNT_FNCTNLTY_ASGN
EQUIPMENT HOLDER	DWR_EQPMNT_HLDR
EQUIPMENT INSTANCE	DWR_EQPMNT_INSTNC
EQUIPMENT INSTANCE STATUS TYPE	DWL_EQPMNT_INSTNC_STAT_TYP
EQUIPMENT RENTING AGREEMENT	DWR_EQPMNT_RNTNG_AGRMNT
ERRORED MEDIATED CALL EVENT	DWB_ERRD_MDTD_CALL_EVT
ERRORED RATED WIRELESS CALL EVENT	DWB_ERRD_RAW_WRLS_CALL_EVT
ERRORED RAW WIRELESS CALL EVENT	DWB_ERRD_RTD_WRLS_CALL_EVT
ETHERNET INTERFACE	
EVENT	DWB_EVT
EVENT ACCESS METHOD ACTIVITY	DWB_EVT_ACCS_MTHD_ACTVTY
EVENT ACCOUNT	DWB_EVT_ACCT
EVENT AGREEMENT	DWB_EVT_AGRMNT
EVENT ASSIGNMENT	DWB_EVT_ASGN
EVENT ASSIGNMENT REASON	DWL_EVT_ASGN_RSN
EVENT ASSIGNMENT TYPE	DWL_EVT_ASGN_TYP
EVENT CATEGORY	DWL_EVT_CTGRY
EVENT CIRCUIT RENTAL	DWB_EVT_CRCUT_RNTL
EVENT CLASS	DWL_EVT_CLASS
EVENT COMPOSITE PRODUCT SPECIFICATION	DWB_EVT_CMPST_PROD_SPEC

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
EVENT COST	DWB_EVT_COST
EVENT EMIT DETAIL	DWB_EVT_EMIT_DTL
EVENT EMPLOYEE ACTIVITY	DWB_EVT_EMP_ACTVTY
EVENT EMPLOYEE PAYROLL	DWB_EVT_EMP_PYRL
EVENT EQUIPMENT INSTANCE	DWB_EVT_EQPMNT_INSTNC
EVENT FINANCIAL	DWB_EVT_FINCL
EVENT GEOGRAPHY	DWB_EVT_GEO
EVENT LOCATION	DWR_EVT_LOC
EVENT LOYALTY PROGRAM	DWB_EVT_LYLTY_PROG
EVENT PARTY ASSIGNMENT	DWB_EVT_PRTY_ASGN
EVENT PARTY INTERACTION	DWB_EVT_PRTY_INTRACN
EVENT PARTY INTERACTION CHARACTERISTIC VALUE	DWR_EVT_PRTY_INTRACN_CHAR_VAL
EVENT PARTY INTERACTION CHAT DETAIL	DWB_EVT_PRTY_INTRACN_CHAT_DTL
EVENT PARTY INTERACTION ITEM	DWB_EVT_PRTY_INTRACN_ITEM
EVENT PARTY INTERACTION PARTICIPATION	DWB_EVT_PRTY_INTRACN_PRTCPTN
EVENT PARTY PROFILE	DWB_EVT_PRTY_PRFL
EVENT PARTY ROLE	DWL_EVT_PRTY_RL
EVENT PREPAID MOBILE	DWB_EVT_PRPD_MBL
EVENT PRODUCT SUBSCRIPTION WIRELESS	DWB_EVT_PROD_SBRP_WRLS
EVENT REASON	DWL_EVT_RSN
EVENT REASON CATEGORY	DWL_EVT_RSN_CTGRY
EVENT RESOLUTION	DWL_EVT_RSLTN
EVENT RESPONSE REASON	DWL_EVT_RESPN_RSN
EVENT RESULT	DWL_EVT_RSLT
EVENT SIM CARD	DWB_EVT_SIM_CARD
EVENT STATUS	DWB_EVT_STAT
EVENT STATUS REASON	DWL_EVT_STAT_RSN
EVENT STATUS TYPE	DWL_EVT_STAT_TYP
EVENT SUBSCRIPTION CHANGE	DWB_EVT_SBRP_CHNG
EVENT TRIGGER DETAIL	DWB_EVT_TRGR_DTL
EVENT TYPE	DWL_EVT_TYP
EXCHANGE LOCATION	DWR_EXCHNG_LOC
EXCLUDE PORT DETAIL	DWR_EXCLD_PRT_DTL
EXPENSE REPORT PARTY ASSIGNMENT	DWB_EXP_RPT_PRTY_ASGN
EXPENSE REPORT STATE TYPE	DWL_EXP_RPT_STATE_TYP
EXPENSE TYPE	DWL_EXP_TYP
EXPIRY BASIS TYPE	DWL_EXP_BASIS_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
EXTERNAL CREDIT PROFILE	DWR_EXTRNL_CRDT_PRFL
EXTERNAL CREDIT PROFILE ASSIGNMENT	DWR_EXTRNL_CRDT_PRFL_ASGN
EXTERNAL INFORMATION SOURCE	DWR_EXTRNL_INFO_SRC
EXTERNAL OPERATOR	DWR_EXTRNL_OPRTR
EXTERNAL ORGANIZATION TYPE	DWL_EXTRNL_ORG_TYP
FACTOR COMPANY	DWR_FCTR_CMPNY
FAIR QUEUING SERVICE	DWR_FAIR_QUENG_SRVC
FAULT RESOLUTION TYPE	DWL_FLT_RSLTN_TYP
FAULT TYPE	DWL_FLT_TYP
FDA	DWR_FDA
FIELD ACTIVITY RESULT TYPE	DWL_FLD_ACTVTY_RSLT_TYP
FIELD ACTIVITY TYPE	DWL_FLD_ACTVTY_TYP
FIREWALL ROLE	DWR_FRWL_RL
FISCAL HALF MONTH	DWR_FSCL_HLF_MO
FISCAL HALF YEAR	DWR_FSCL_HLF_YR
FISCAL MONTH	DWR_FSCL_MO
FISCAL QUARTER	DWR_FSCL_QTR
FISCAL WEEK	DWR_FSCL_WK
FISCAL YEAR	DWR_FSCL_YR
FIXED LINE CALL EVENT	DWB_FIXED_LN_CALL_EVT
FIXED LINE PORT	DWR_FIXED_LN_PRT
FIXED LINE RATING PLAN	DWR_FIXED_LN_RTNG_PLN
FIXED LINE SERVICE	DWR_FIXED_LN_SRVC
FLEXIBLE CHARACTERISTIC	DWR_FXBLE_CHAR
FLEXIBLE CHARACTERISTIC ASSIGNMENT	DWR_FXBLE_CHAR_ASGN
FLEXIBLE CHARACTERISTIC ASSIGNMENT TYPE	DWL_FXBLE_CHAR_ASGN_TYP
FLEXIBLE CHARACTERISTIC RELATIONSHIP	DWR_FXBLE_CHAR_RLTN
FLEXIBLE CHARACTERISTIC TYPE	DWL_FXBLE_CHAR_TYP
FLEXIBLE CHARACTERISTIC VALUE	DWR_FXBLE_CHAR_VAL
FLEXIBLE CHARACTERISTIC VALUE ASSIGNMENT	DWR_FXBLE_CHAR_VAL_ASGN
FLEXIBLE CHARACTERISTIC VALUE RELATIONSHIP	DWR_FXBLE_CHAR_VAL_RLTN
FRAUD PROFILE CLASS	DWL_FRAUD_PRFL_CLASS
FSAM	DWR_FSAM
FUEL SALE STATUS	DWL_FUEL_SL_STAT
GENDER	DWL_GNDR
GEOGRAPHY BUILDING	DWR_GEO_BLDG
GEOGRAPHY CITY	DWR_GEO_CITY

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
GEOGRAPHY COMPLEX	DWR_GEO_COMPLEX
GEOGRAPHY COUNTRY	DWR_GEO_CNTRY
GEOGRAPHY COUNTY	DWR_GEO_CNTY
GEOGRAPHY DEMOGRAPHIC GROUP	DWR_GEO_DEMOG_GRP
GEOGRAPHY DEMOGRAPHY ATTRIBUTE	DWR_GEO_DEMOG_ATRIB
GEOGRAPHY DEMOGRAPHY VALUE	DWR_GEO_DEMOG_VAL
GEOGRAPHY ENTITY	DWR_GEO_ENT
GEOGRAPHY ENTITY ASSIGNMENT	DWR_GEO_ENT_ASGN
GEOGRAPHY ENTITY HIER LEVEL ASSIGNMENT	DWR_GEO_ENT_HIER_LVL_ASGN
GEOGRAPHY HIERARCHY	DWR_GEO_HRCHY
GEOGRAPHY HIERARCHY LEVEL	DWR_GEO_HRCHY_LVL
GEOGRAPHY HIERARCHY LEVEL ASSIGNMENT	DWR_GEO_HRCHY_LVL_ASGN
GEOGRAPHY LEVEL	DWR_GEO_LVL
GEOGRAPHY LEVEL ATTRIBUTE	DWR_GEO_LVL_ATRIB
GEOGRAPHY LEVEL ATTRIBUTE VALUE	DWR_GEO_LVL_ATRIB_VAL
GEOGRAPHY REGION	DWR_GEO_RGN
GEOGRAPHY STATE	DWR_GEO_STATE
GEOGRAPHY STREET	DWR_GEO_STRT
GEOGRAPHY SUB REGION	DWR_GEO_SBRGN
GEOGRAPHY WORLD	DWR_GEO_WORLD
GGSN	
GIVE AWAY ITEM DAY DRVD	DWD_GIVE_AWAY_ITEM_DAY
GIVE AWAY TYPE	DWL_GIVE_AWAY_TYP
GL ACCOUNT	DWR_GL_ACCT
GL ACCOUNT ASSIGNMENT	DWR_GL_ACCT_ASGN
GL ACCOUNT SEGMENT	DWR_GL_ACCT_SGMNT
GL ACCOUNT TYPE	DWL_GL_ACCT_TYP
GL BALANCE	DWB_GL_BAL
GL COST CENTER SEGMENT	DWR_GL_COST_CNTR_SGMNT
GL JE LINE SUBLEDGER ASSIGNMENT	DWB_GL_JE_LN_SBLDGR_ASGN
GL JOURNAL ENTRY	DWB_GL_JE
GL JOURNAL ENTRY BATCH	DWB_GL_JE_BTCH
GL JOURNAL ENTRY CATEGORY	DWL_GL_JE_CTGRY
GL JOURNAL ENTRY LINE	DWB_GL_JE_LN
GL LEDGER	DWR_GL_LDGR
GL LEDGER ACCOUNT ASSIGNMENT	DWR_GL_LDGR_ACCT_ASGN
GL ORG BSNS UNIT SEGMENT	DWR_GL_ORG_BSNS_UNIT_SGMNT

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
GL PERIOD	DWR_GL_PRD
GL PRODUCT SPECIFICATION SEGMENT	DWR_GL_PROD_SPEC_SGMNT
GL PROJECT SEGMENT	DWR_GL_PROJ_SGMNT
GL REFERENCE	DWR_GL_REF
GL SEGMENT	DWR_GL_SGMNT
GL SEGMENT TYPE	DWL_GL_SGMNT_TYP
GL SUBLEDGER	DWR_GL_SBLDGR
GL SUBLEDGER JOURNAL ENTRY	DWB_GL_SBLDGR_JE
GL SUBLEDGER JOURNAL ENTRY LINE	DWB_GL_SBLDGR_JE_LN
GPRS SERVICE	DWR_GPRS_SRVC
GPRS USAGE EVENT	DWB_GPRS_USG_EVT
HALF HOUR	DWR_HLF_HR
HALF MONTH TODATE TRANSFORMATION	DWR_HLF_MO_TODATE_TRANS
HALF MONTH TRANSFORMATION	DWR_HLF_MO_TRANS
HALF YEAR TODATE TRANSFORMATION	DWR_HLF_YR_TODATE_TRANS
HALF YEAR TRANSFORMATION	DWR_HLF_YR_TRANS
HANDSET INSTANCE	DWR_HNDST_INSTNC
HANDSET MODEL	DWR_HNDST_MDL
HARDWARE	DWR_HRDWR
HEAD TAIL DROPPER SERVICE	DWR_HEAD_TAIL_DRPPR_SRVC
HOLDER ATOMIC	DWR_HLDR_ATMC
HOLDER COMPOSITE	DWR_HLDR_CMPST
HOME SUBSCRIBER SERVER	DWR_HM_SBCRBR_SERVER
HOUR	DWR_HR
HOUSEHOLD	DWR_HH
IDD	DWR_IDD
IDD CALL EVENT	DWB_IDD_CALL_EVT
IMPRESSION	DWB_IMPRESSION
IMPRESSION EVENT TYPE	DWL_IMPRESSION_EVT_TYP
IN PLATFORM	DWR_IN_PLTFRM
IN PLATFORM DAY DRVD	DWD_IN_PLTFRM_DAY
IN PLATFORM MONTH AGGR	DWA_IN_PLTFRM_MO
IN ROUTING DEVICE	DWR_IN_RUTNG_DVC
INDIVIDUAL DEMOGRAPHY PROFILE	DWR_INDVL_DEMOG_PRFL
INDIVIDUAL DEMOGRAPHY VALUE	DWR_INDVL_DEMOG_VAL
INDIVIDUAL NAME	DWR_INDVL_NAME
INITIATIVE RESULT TYPE	DWL_INTTV_RSLT_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
INITIATIVE TYPE	DWL_INTTV_TYP
INSTALLMENT AGREEMENT	DWR_INSTLMNT_AGRMNT
INTERACTION ANSWER CHOICE	DWB_INTRACN_ANSWR_CHOICE
INTERACTION CHANNEL	DWR_INTRACN_CHNL
INTERACTION DIRECTION	DWL_INTRACN_DRCTN
INTERACTION NAVIGATION ASSIGNMENT	DWR_INTRACN_NAVGTN_ASGN
INTERACTION NAVIGATION HISTORY	DWB_INTRACN_NAVGTN_HIST
INTERACTION NAVIGATION ITEM	DWR_INTRACN_NAVGTN_ITEM
INTERACTION NAVIGATION ITEM TYPE	DWL_INTRACN_NAVGTN_ITEM_TYP
INTERACTION NAVIGATION LEVEL	DWL_INTRACN_NAVGTN_LVL
INTERACTION NAVIGATION TYPE	DWL_INTRACN_NAVGTN_TYP
INTERACTION NAVIGATION TYPE VERSION	DWR_INTRACN_NAVGTN_TYP_VRSN
INTERACTION PRIORITY TYPE	DWL_INTRACN_PRIORITY_TYP
INTERACTION QUESTION RESPONSE	DWB_INTRACN_QUES_RESPN
INTERACTION REASON	DWL_INTRACN_RSN
INTERACTION RESULT TYPE	DWL_INTRACN_RSLT_TYP
INTERACTION STATUS	DWL_INTRACN_STAT
INTERACTION STATUS TYPE	DWL_INTRACN_STAT_TYP
INTERACTION TRANSFER HISTORY	DWB_INTRACN_TRNSFR_HIST
INTERACTION TRANSFER REASON	DWL_INTRACN_TRNSFR_RSN
INTERACTION TYPE	DWL_INTRACN_TYP
INTERNET ACCESS EVENT	DWB_INTRNT_ACCS_EVT
INVENTORY ADJUSTMENT DOCUMENT LINE ITEM	DWB_INV_ADJ_DOC_LI
INVENTORY ADJUSTMENT ITEM DAY DRVD	DWD_INV_ADJ_ITEM_DAY
INVENTORY CONTROL DOCUMENT	DWB_INV_CNTRL_DOC
INVENTORY CONTROL DOCUMENT LINE ITEM	DWB_INV_CNTRL_DOC_LI
INVENTORY ITEM STATE	DWB_INV_ITEM_STATE
INVENTORY LOCATION	DWR_INV_LOC
INVENTORY POSITION DEPARTMENT DAY AGGR	DWA_INV_POSN_DEPT_DAY
INVENTORY POSITION ITEM DAY DRVD	DWD_INV_POSN_ITEM_DAY
INVENTORY POSITION SUBCLASS MONTH AGGR	DWA_INV_POSN_SBC_MO
INVENTORY RECEIPT ITEM DAY DRVD	DWD_INV_RCPT_ITEM_DAY
INVENTORY TRANSFER ITEM DAY DRVD	DWD_INV_XFER_ITEM_DAY
INVENTORY UNAVAILABLE ITEM DAY DRVD	DWD_INV_UNAVL_ITEM_DAY
INVENTORY VENDOR COMPLIANCE DAY DRVD	DWD_INV_VNDR_CMPLNC_DAY
INVOICE	DWB_INVC
INVOICE ADJUSTMENT	DWB_INVC_ADJ

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
INVOICE ADJUSTMENT MONTH AGGR	DWA_INVC_ADJ_MO
INVOICE ADJUSTMENT QUOTA	DWR_INVC_ADJ_QTA
INVOICE ADJUSTMENT REASON	DWL_INVC_ADJ_RSN
INVOICE ADJUSTMENT TYPE	DWL_INVC_ADJ_TYP
INVOICE AGING DAY DRVD	DWD_INVC_AGNG_DAY
INVOICE DELIVERY FORMAT	DWL_INVC_DLVRY_FRMT
INVOICE DELIVERY TYPE	DWL_INVC_DLVRY_TYP
INVOICE DISCOUNT	DWB_INVC_DISC
INVOICE DISCOUNT REASON	DWL_INVC_DISC_RSN
INVOICE DISCOUNT TYPE	DWL_INVC_DISC_TYP
INVOICE DRVD	DWD_INVC_DAY
INVOICE GENERATION PROCESS	DWB_INVC_GENRTN_PRCS
INVOICE ITEM	DWB_INVC_ITEM
INVOICE ITEM DETAIL	DWB_INVC_ITEM_DTL
INVOICE ITEM DETAIL TYPE	DWL_INVC_ITEM_DTL_TYP
INVOICE ITEM RELATIONSHIP	DWB_INVC_ITEM_RLTN
INVOICE ITEM TYPE	DWL_INVC_ITEM_TYP
INVOICE MONTH AGGR	DWA_INVC_MO
INVOICE PAYMENT ASSIGNMENT	DWB_INVC_PYMT_ASGN
INVOICE PAYMENT TERM	DWB_INVC_PYMT_TERM
INVOICE PAYMENT TERM TYPE	DWL_INVC_PYMT_TERM_TYP
INVOICE PROCESS ASSIGNMENT	DWR_INVC_PRCS_ASGN
INVOICE STATUS	DWL_INVC_STAT
INVOICE STATUS TYPE	
INVOICE STATUS HISTORY	DWB_INVC_STAT_HIST
INVOICE TAX ITEM	DWB_INVC_TAX_ITEM
INVOICE TYPE	DWL_INVC_TYP
INVOLVEMENT ROLE	DWL_INVLMNT_RL
IP ADDRESS	DWR_IP_ADDR
IP ADDRESS POOL	DWR_IP_ADDR_POOL
IP SUBNET	DWR_IP_SUBNET
IPV4 ADDRESS	DWR_IPV4_ADDR
ISP	DWR_ISP
ISP BUSINESS	DWR_ISP_BSNS
ISP BUSINESS ASSIGNMENT	DWR_ISP_BSNS_ASGN
ISP BUSINESS TYPE	DWL_ISP_BSNS_TYP
ISP TYPE	DWL_ISP_TYP

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
ISP USAGE EVENT	DWB_ISP_USG_EVT
ISP USER	DWR_ISP_USER
ITEM CLASS	DWR_ITEM_CLASS
ITEM CLUSTER	DWR_ITEM_CLSTR
ITEM COMPANY	DWR_ITEM_CMPNY
ITEM DEPARTMENT	DWR_ITEM_DEPT
ITEM DIVISION	DWR_ITEM_DIV
ITEM GROUP	DWR_ITEM_GRP
ITEM LOOKUP METHOD	DWL_ITEM_LKUP_MTHD
ITEM SPECIFICATION	DWR_ITEM_SPEC
ITEM SUBCLASS	DWR_ITEM_SBC
ITEM TYPE	DWL_ITEM_TYP
IVR INTERACTION NAVIGATION HISTORY	DWB_IVR_INTRACN_NAVGTN_HIST
IVR MENU CONTENT	DWR_IVR_MENU_CNTNT
IVR MENU ITEM	DWR_IVR_MENU_ITEM
JOB	DWR_JB
JOB ROLE	DWR_JB_RL
JOURNAL ENTRY LINE CUSTOMER ORDER ITEM ASSIGNMENT	DWB_JE_LN_CUST_ORDR_ITEM_ASGN
JOURNAL ENTRY LINE INVOICE ITEM ASSIGNMENT	DWB_JE_LN_INVC_ITEM_ASGN
JURISDICTION	DWR_JUR
KEY PERFORMANCE INDICATOR SLS PARM	DWR_KEY_PRFMNC_IND_SLS_PARM
KEY QUALITY INDICATOR SLS PARM	DWR_KEY_QLTY_IND_SLS_PARM
LAN	DWR_LAN
LAN PROTOCOL	DWR_LAN_PROTCL
LAND PARCEL ADDRESS	DWR_LAND_PARCEL_ADDR
LAND USE TYPE	DWL_LND_USE_TYP
LANGUAGE	DWL_LANG
LANGUAGE DIALECT	DWR_LANG_DIALECT
LAYER NETWORK	DWR_LAYER_NTWK
LEGAL PROCESS STATUS TYPE	DWL_LEGAL_PRCS_STAT_TYP
LETTER TYPE	DWL_LTTR_TYP
LIFECYCLE TYPE	DWL_LFCCL_TYP
LOCAL ADDRESS LOCATION	DWR_LCL_ADDR_LOC
LOGICAL CAPACITY	DWR_LGICL_CPCTY
LOGICAL DEVICE	DWR_LGICL_DVC
LOGICAL DEVICE ATOMIC	DWR_LGICL_DVC_ATMC

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
LOGICAL DEVICE COMPOSITE	DWR_LGICL_DVC_CMPST
LOGICAL DEVICE OS ASSIGNMENT	DWR_LGICL_DVC_OS_ASGN
LOGICAL DEVICE ROLE	DWR_LGICL_DVC_RL
LOGICAL DEVICE ROLE SPEC	DWR_LGICL_DVC_RL_SPEC
LOGICAL DEVICE SPECIFICATION	DWR_LGICL_DVC_SPEC
LOGICAL INTERFACE	DWR_LGICL_INTRFC
LOGICAL RESOURCE	DWR_LGICL_RSCE
LOGICAL RESOURCE PHYSICAL SUPPORT	DWR_LGICL_RSCE_PHY_SPPRT
LOGICAL RESOURCE ROLE	DWR_LGICL_RSCE_RL
LOGICAL RESOURCE ROLE ASSIGNMENT	DWR_LGICL_RSCE_RL_ASGN
LOGICAL RESOURCE ROLE SPECIFICATION	DWR_LGICL_RSCE_RL_SPEC
LOGICAL RESOURCE SPEC ATOMIC	DWR_LGICL_RSCE_SPEC_ATMC
LOGICAL RESOURCE SPEC COMPOSITE	DWR_LGICL_RSCE_SPEC_CMPST
LOGICAL RESOURCE SPEC PHYSICAL SUPPORT	DWR_LGICL_RSCE_SPEC_PHY_SPPRT
LOGICAL RESOURCE SPEC VERSION	DWR_LGICL_RSCE_SPEC_VRSN
LOGICAL RESOURCE SPECIFICATION	DWR_LGICL_RSCE_SPEC
LOGICAL RESOURCE TYPE VERSION	
LOOKUP	DWL_LOOKUP
LOOPBACK INTERFACE	
LOYALTY MEMBER POINT DAY DRVD	DWD_LYLTY_MBR_PNT_DAY
LOYALTY MEMBERSHIP ENROLL	DWB_LYLTY_MBRSHIP_ENRL
LOYALTY PROGRAM	DWR_LYLTY_PROG
LOYALTY PROGRAM MO AGGR	DWA_LYLTY_PROG_MO
LOYALTY TIER	DWR_LYLTY_TIER
LOYALTY TIER CHANGE HISTORY	DWB_LYLTY_TIER_CHNG_HIST
LOYALTY TIER CLASS	DWR_LYLTY_TIER_CLASS
LR STATUS	DWL_LR_STAT
MAILBOX	DWR_MAILBOX
MANAGE ACTION TYPE	DWL_MNG_ACTN_TYP
MANAGED ENTITY	DWR_MANAGED_ENT
MANAGED HARDWARE	DWR_MANAGED_HRDWR
MANAGED TRANSMISSION ENTITY	DWR_MANAGED_TRNSMISN_ENT
MANAGEMENT DOMAIN	DWR_MGMT_DOMAIN
MANAGEMENT INFORMATION	DWR_MGMT_INFO
MANAGEMENT PROTOCOL	DWR_MGMT_PROTCL
MARITAL STATUS	DWL_MRTL_STAT
MARKER POOL	DWR_MRKR_POOL

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
MARKER SERVICE	DWR_MRKR_SRVC
MARKER SERVICE MARKER POOL ASSIGNMENT	DWR_MRKR_SRVC_MRKR_POOL_ASGN
MARKER TYPE	DWL_MRKR_TYP
MARKET AREA	DWR_MKT_AREA
MARKET AREA LEVEL	DWR_MKT_AREA_LVL
MARKET SEGMENT	DWR_MKT_SGMNT
MARKET SEGMENT CHARACTERISTIC	DWR_MKT_SGMNT_CHAR
MARKET SEGMENT CHARACTERISTIC VALUE	DWR_MKT_SGMNT_CHAR_VAL
MARKET SEGMENT INCLUSION	
MARKET SHARE AGGR	DWA_MKT_SHARE
MARKET SHARE DRVD	DWD_MKT_SHARE
MARKET STATISTICS	DWR_MKT_STTSTCS
MARKET STATISTIC INCLUSION	
MEASUREMENT JOB	DWR_MSRMNT_JB
MEDIA INTERFACE	DWR_MEDIA_INTRFC
MEDIA INTERFACE LOGICAL INTERFACE ASSIGNMENT	DWR_MDIA_ITRFC_LGL_INTRFC_ASGN
MEDIA INTERFACE TYPE	DWL_MEDIA_INTRFC_TYP
MEDIA OBJECT	DWR_MEDIA_OBJ
MEDIA OBJECT ASSIGNMENT	DWR_MEDIA_OBJ_ASGN
MEDIA OBJECT COST	DWB_MEDIA_OBJ_COST
MEDIA OBJECT TYPE	DWL_MEDIA_OBJ_TYP
MEDIATED CALL EVENT	DWB_MDTD_CALL_EVT
MEDIATION STATUS CATEGORY	DWL_MDTN_STAT_CTGRY
MEDIATION STATUS REASON	DWL_MDTN_STAT_RSN
MEDIATION STATUS TYPE	DWL_MDTN_STAT_TYP
MEMBERSHIP ACCOUNT	DWR_MBRSHIP_ACCT
MEMBERSHIP ACCOUNT BALANCE HISTORY	DWB_MBRSHIP_ACCT_BAL_HIST
METER PROFILE	DWR_MTR_PRFL
METER SERVICE	DWR_MTR_SRVC
METER SERVICE PROFILE ASSIGNMENT	DWR_MTR_SRVC_PRFL_ASGN
MINING CHURN TYPE	TBS
MINING LIFE TIME SURVIVAL VALUE BAND	TBS
MINING LIFE TIME VALUE BAND	TBS
MINING SENTIMENT CATEGORY	
MINUTE	DWR_MNT
MME	

Table 5–1 (Cont.) Entity Mapping Table: Logical to Physical Mapping A to M

Entity	Table or View
MMS EVENT	DWB_MMS_EVT
MMS SERVICE	DWR_MMS_SRVC
MOBILE SWITCHING CENTER	DWR_MBL_SWTCHNG_CNTR
MODEL TYPE	DWL_MDL_TYP
MONITORED CLASS CRITERIA	DWR_MNITRD_CLASS_CRTRA
MONITORED INSTANCES CRITERIA	DWR_MNITRD_INSTNCS_CRTRA
MONITORED OBJECTS CRITERIA	DWR_MNITRD_OBJS_CRTRA
MONTH TODATE TRANSFORMATION	DWR_MO_TODATE_TRANS
MONTH TRANSFORMATION	DWR_MO_TRANS
MSC SERVER	
MSC TRAFFIC DAY DRVD	DWD_MSC_TRFC_DAY
MSC TRAFFIC MONTH AGGR	DWA_MSC_TRFC_MO
MUSIC DOWNLOAD	DWR_MUS_DNLD

Table 5–2 Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
NAICS CLASSIFICATION	DWR_NAICS_CLSFCTN
NAICS INDUSTRY	DWR_NAICS_INDSTRY
NAICS INDUSTRY GROUP	DWR_NAICS_INDSTRY_GRP
NAICS INDUSTRY SECTOR	DWR_NAICS_INDSTRY_SCTR
NAICS INDUSTRY SUBSECTOR	DWR_NAICS_INDSTRY_SUBSCTR
NATIONALITY	DWL_NTNLTY
NEGOTIATED SERVICE LEVEL SPEC	DWR_NEGOTIATED_SRVC_LVL_SPEC
NETWORK	DWR_NTWK
NETWORK ADDRESS	DWR_NTWK_ADDR
NETWORK ADDRESS INTERFACE BINDING	DWR_NTWK_ADDR_INTRFC_BNDNG
NETWORK ADDRESS TYPE	DWL_NTWK_ADDR_TYP
NETWORK ASSIGNMENT	DWR_NTWK_ASGN
NETWORK ASSIGNMENT TYPE	DWL_NTWK_ASGN_TYP
NETWORK ATOMIC	DWR_NTWK_ATMC
NETWORK AVAILABILITY DAY DRVD	DWD_NTWK_AVLBLTY_DAY
NETWORK AVAILABILITY MONTH AGGR	DWA_NTWK_AVLBLTY_MO
NETWORK CAPACITY	DWR_NTWK_CPCTY
NETWORK COMPOSITE	DWR_NTWK_CMPST
NETWORK DOMAIN	DWR_NTWK_DOMAIN
NETWORK DOMAIN ASSIGNMENT	DWR_NTWK_DOMAIN_ASGN

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
NETWORK FORWARDING SERVICE	DWR_NTWK_FRWRDNG_SRVC
NETWORK ROUTE	DWR_NTWK_ROUTE
NETWORK ROUTE POINT	DWR_NTWK_ROUTE_PNT
NETWORK ROUTE POINT ASSIGNMENT	DWR_NTWK_ROUTE_PNT_ASGN
NETWORK ROUTE SECTION	DWR_NTWK_ROUTE_SECTN
NETWORK SERVICE COVERAGE ASSIGNMENT	DWR_NTWK_SRVC_COVRG_ASGN
NETWORK SITE	DWR_NTWK_SITE
NETWORK TOUCHPOINT	DWR_NTWK_TCHPNT
NETWORK TOUCHPOINT CLASS	DWL_NTWK_TCHPNT_CLASS
NETWORK TOUCHPOINT DRVD	DWD_NTWK_TCHPNT
NETWORK TOUCHPOINT MONTH AGGR	DWA_NTWK_TCHPNT_MO
NETWORK TOUCHPOINT STATUS	DWL_NTWK_TCHPNT_STAT
NETWORK TOUCHPOINT TYPE	DWL_NTWK_TCHPNT_TYP
NETWORK TYPE	DWL_NTWK_TYP
Not used	DWD_ACCT_DEBT_MO
Not used	DWD_INV_ADJ_ITEM_DAY
Not used	DWD_PRPD_ALWNCE_DAY
Not used	DWA_SPLMNTR_SRVC_USG_MO
NOTIFICATION TYPE	DWL_NTFCTN_TYP
NP MOBILE MSISDN	DWR_NP_MBL_MSISDN
NP REQUEST HEADER	DWB_NP_RQST_HDR
NP REQUEST LINE ITEM	DWB_NP_RQST_LN_ITEM
NP REQUEST LINE ITEM STATE HISTORY	DWB_NP_RQST_LN_ITEM_STATE_HIST
NP REQUEST LINE ITEM STATE TYPE	DWL_NP_RQST_LN_ITEM_STATE_TYP
NP REQUEST STATE HISTORY	DWB_NP_RQST_STATE_HIST
NP REQUEST STATE REASON	DWL_NP_RQST_STATE_RSN
NP REQUEST STATE TYPE	DWL_NP_RQST_STATE_TYP
NP REQUEST TYPE	DWL_NP_RQST_TYP
NP STEP	DWL_NP_STEP
NUMBER AREA	DWR_NBR_AREA
NUMBER COUNTRY	DWR_NBR_CNTRY
NUMBER NETWORK TYPE	DWL_NBR_NTWK_TYP
NUMBER PORT DAY DRVD	DWD_NBR_PRT_DAY
NUMBER PORT MONTH AGGR	DWA_NBR_PRT_MO
ON OFF NET TYPE	DWL_ONOFF_NET
OPERATING SYSTEM	DWR_OPERTNG_SYS
OPERATOR GROUP	DWL_OPRTR_GRP

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
OPERATOR TYPE	DWL_OPRTR_TYP
ORACLE GEOMETRY	DWR_ORACLE_GEOMETRY
ORDER LINE ITEM STATE	DWL_ORDR_LN_ITEM_STATE
ORDER LINE ITEM STATE TYPE	DWL_ORDR_LN_ITEM_STATE_TYP
ORDER STATE	DWL_ORDR_STATE
ORDER STATE TYPE	DWL_ORDR_STATE_TYP
ORDER TYPE	DWL_ORDR_TYP
ORGANIZATION	DWR_ORG
ORGANIZATION AREA	DWR_ORG_AREA
ORGANIZATION BANNER	DWR_ORG_BNR
ORGANIZATION BUSINESS ENTITY	DWR_ORG_BSNS_ENT
ORGANIZATION BUSINESS UNIT	DWR_ORG_BSNS_UNIT
ORGANIZATION BUSINESS UNIT COST	DWB_ORG_BSNS_UNIT_COST
ORGANIZATION BUSINESS UNIT HOURS DAY DRVD	DWD_ORG_BSNS_UNT_HRS_DAY
ORGANIZATION BUSINESS UNIT TYPE	DWL_ORG_BSNS_UNIT_TYP
ORGANIZATION CHAIN	DWR_ORG_CHAIN
ORGANIZATION COMPANY	DWR_ORG_CMPNY
ORGANIZATION CORPORATE	DWR_ORG_CRPRT
ORGANIZATION DISTRICT	DWR_ORG_DSTRCT
ORGANIZATION DIVISION	DWR_ORG_DIV
ORGANIZATION HIERARCHY	DWR_ORG_HRCHY
ORGANIZATION HIERARCHY LEVEL	DWR_ORG_HRCHY_LVL
ORGANIZATION HIERARCHY LEVEL ASSIGNMENT	DWR_ORG_HRCHY_LVL_ASGN
ORGANIZATION HIERARCHY VERSION	DWR_ORG_HRCHY_VRSN
ORGANIZATION ITEM SELLING PRICE	DWR_ORG_ITEM_SLNG_PRICE
ORGANIZATION LEVEL	DWR_ORG_LVL
ORGANIZATION LEVEL ATTRIBUTE VALUE	DWR_ORG_LVL_ATRIB_VAL
ORGANIZATION LEVEL ATTRIBUTES	DWR_ORG_LVL_ATTR
ORGANIZATION MARKET DATA	DWR_ORG_MKT_DATA
ORGANIZATION NAME	DWR_ORG_NAME
ORGANIZATION REGION	DWR_ORG_RGN
ORGANIZATION SERVICE WEBSITE	DWR_ORG_SRVC_WBSITE
ORGANIZATION TYPE	DWL_ORG_TYP
ORGANIZATION WAREHOUSE	DWR_ORG_WRHS
ORGANIZATIONAL DEMOGRAPHY VALUE	DWR_ORGNTL_DEMOG_VAL
OS LICENSE ASSIGNMENT	DWR_OS_LICNS_ASGN
OTHER INDIVIDUAL	DWR_OTHR_INDVL

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
P LOGICAL DEVICE ROLE	DWR_P_LGICL_DVC_RL
PACKET CONTROL UNIT OUTAGE REASON	DWL_PCU_OUTAGE_RSN
PAGE	DWR_PG
PARTNER PAYMENT	DWB_PRTNR_PYMT
PARTNER PAYMENT TYPE	DWL_PRTNR_PYMT_TYP
PARTNER PROMOTION PROGRAM	DWR_PRTNR_PRMTN_PROG
PARTNER SETTLEMENT DRVD	DWD_PRTNR_STLMNT
PARTNER SETTLEMENT MONTH AGGR	DWA_PRTNR_STLMNT_MO
PARTNER SETTLEMENT REASON	DWL_PRTNR_STLMNT_RSN
PARTY	DWR_PRTY
PARTY ACCOUNT ASSIGNMENT	DWR_PRTY_ACCT_ASGN
PARTY ACCOUNT ASSIGNMENT TYPE	DWL_PRTY_ACCT_ASGN_TYP
PARTY ADDRESS LOCATION ASSIGNMENT	DWR_PRTY_ADDR_LOC_ASGN
PARTY AGREEMENT ASSIGNMENT	DWR_PRTY_AGRMNT_ASGN
PARTY AGREEMENT ASSIGNMENT ROLE	DWL_PRTY_AGRMNT_ASGN_RL
PARTY AGREEMENT ASSIGNMENT TYPE	DWL_PRTY_AGRMNT_ASGN_TYP
PARTY AM PRODUCT OFFERING ASSIGNMENT HISTORY	DWB_PRTY_AM_PROD_OFR_ASGN_HIST
PARTY AM PRODUCT OFFERING ASSIGNMENT STATUS	DWB_PRTY_AM_PROD_OFR_ASGN_STAT
PARTY ASSIGNMENT	DWR_PRTY_ASGN
PARTY ASSIGNMENT REASON	DWL_PRTY_ASGN_RSN
PARTY ASSIGNMENT TYPE	DWL_PRTY_ASGN_TYP
PARTY BUSINESS INTERACTION ROLE	DWR_PRTY_BSNS_INTRACN_RL
PARTY CONTACT INFORMATION	DWR_PRTY_CNCT_INFO
PARTY CONTACT INFORMATION TYPE	DWL_PRTY_CNCT_INFO_TYP
PARTY CONTACT LIST PARTICIPATION	DWL_PRTY_CNCT_LST_PRTCPTN
PARTY CONTACT LIST ROLE	DWL_PRTY_CNCT_LST_RL
PARTY COST ASSIGNMENT	DWB_PRTY_COST_ASGN
PARTY DEMOGRAPHIC	DWR_PRTY_DEMOG
PARTY DEMOGRAPHIC VALUE	DWR_PRTY_DEMOG_VAL
PARTY EVENT TYPE	DWL_PRTY_EVT_TYP
PARTY GEOGRAPHY ENTITY ASSIGNMENT	DWR_PRTY_GEO_ENT_ASGN
PARTY IDENTIFICATION	DWR_PRTY_ID
PARTY IDENTIFICATION TYPE	DWL_PRTY_IDNT_TYP
PARTY LANGUAGE CAPABILITY	DWR_PRTY_LANG_CAPBLTY
PARTY LOCATION REASON	DWL_PRTY_LOC_RSN
PARTY LOCATION TYPE	DWL_PRTY_LOC_TYP

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PARTY MANAGEMENT ROLE	DWL_PRTY_MGMT_RL
PARTY MARKET SEGMENT ASSIGNMENT	DWR_PRTY_MKT_SGMNT_ASGN
PARTY NAME	DWR_PRTY_NAME
PARTY ORDER ASSIGNMENT	DWB_PRTY_ORDR_ASGN
PARTY ORDER ASSIGNMENT TYPE	DWL_PRTY_ORDR_ASGN_TYP
PARTY PRODUCT SUBSCRIPTION ASSIGNMENT	DWR_PRTY_PROD_SBRP_ASGN
PARTY PRODUCT SUBSCRIPTION ROLE	DWL_PRTY_PROD_SBRP_RL
PARTY PROFILE	DWR_PRTY_PRFL
PARTY PROFILE CHAR ASSIGNMENT	DWR_PRTY_PRFL_CHAR_ASGN
PARTY PROFILE TYPE	DWL_PRTY_PRFL_TYP
PARTY PROFILE TYPE CHARACTERISTIC	DWR_PRTY_PRFL_TYP_CHAR
PARTY PROFILE TYPE CHARACTERISTIC VALUE	DWR_PRTY_PRFL_TYP_CHAR_VAL
PARTY PROJECT PARTICIPATION	
PARTY PROMOTION RESPONSE	DWB_PRTY_PRMTN_RESPN
PARTY ROLE	DWL_PRTY_RL
PARTY ROLE ASSIGNMENT	DWR_PRTY_RL_ASGN
PARTY ROLE CATEGORY	DWL_PRTY_RL_CTGRY
PARTY ROLE CATEGORY ASSIGNMENT	DWR_PRTY_RL_CTGRY_ASGN
PARTY ROLE OS PROCESS ASSIGNMENT	DWR_PRTY_RL_OS_PRCS_ASGN
PARTY ROLE PROFILE ASSIGNMENT	DWR_PRTY_RL_PRFL_ASGN
PARTY ROLE STATUS	DWR_PRTY_RL_STAT
PARTY ROLE TYPE	DWL_PRTY_RL_TYP
PARTY SEGMENTATION METHOD	DWL_PRTY_SGMNT_MTHD
PARTY SERVICE ASSIGNMENT	DWR_PRTY_SRVC_ASGN
PARTY SERVICE ASSIGNMENT REASON	DWL_PRTY_SRVC_ASGN_RSN
PARTY SERVICE ASSIGNMENT ROLE	DWL_PRTY_SRVC_ASGN_RL
PARTY SIM CARD ASSIGNMENT	DWR_PRTY_SIM_CARD_ASGN
PARTY SIM CARD ROLE	DWL_PRTY_SIM_CARD_RL
PARTY SKILL	DWR_PRTY_SKILL
PARTY STATUS CATEGORY	DWL_PRTY_STAT_CTGRY
PARTY STATUS CHANGE REASON	DWL_PRTY_STAT_CHNG_RSN
PARTY STATUS HISTORY	DWB_PRTY_STAT_HIST
PARTY STATUS TYPE	DWL_PRTY_STAT_TYP
PARTY TYPE	DWL_PRTY_TYP
PASSPORT	DWR_PASPRT
PAY CATEGORY	DWL_PAY_CTGRY
PAY TV SERVICE	DWR_PYTV_SRVC

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PAY TYPE	DWL_PAY_TYP
PAYMENT AGING CLASS	DWL_PYMT_AGNG_CLASS
PAYMENT CHANNEL	DWR_PYMT_CHNL
PAYMENT METHOD TYPE	DWL_PYMT_MTHD_TYP
PAYMENT PLAN	DWR_PYMT_PLN
PAYMENT TRANSACTION TYPE	DWL_PYMT_TRX_TYP
PE LOGICAL DEVICE ROLE	DWR_PE_LGICL_DVC_RL
PEAK OFFPEAK TIME	DWL_PK_OFPK_TIME
PERFORMANCE	DWB_PRFMNC
PERFORMANCE APPLICABILITY	DWR_PRFMNC_APLBLETY
PERFORMANCE CAT CHARACTERISTIC VALUE	DWR_PRFMNC_CAT_CHAR_VAL
PERFORMANCE CAT SPEC RELATIONSHIP	DWR_PRFMNC_CAT_SPEC_RLTN
PERFORMANCE CAT SPECIFICATION	DWR_PRFMNC_CAT_SPEC
PERFORMANCE CATEGORY	DWR_PRFMNC_CTGRY
PERFORMANCE CATEGORY RELATIONSHIP	DWR_PRFMNC_CTGRY_RLTN
PERFORMANCE CHARACTERISTIC VALUE	DWR_PRFMNC_CHAR_VAL
PERFORMANCE CONSEQUENCE	DWB_PRFMNC_CNSEQ
PERFORMANCE INDICATOR	DWB_PRFMNC_IND
PERFORMANCE INDICATOR GROUP	DWB_PRFMNC_IND_GRP
PERFORMANCE INDICATOR GROUP SPEC	DWL_PRFMNC_IND_GRP_SPEC
PERFORMANCE INDICATOR RELATIONSHIP	DWR_PRFMNC_IND_RLTN
PERFORMANCE INDICATOR SPEC RELATIONSHIP	DWR_PRFMNC_IND_SPEC_RLTN
PERFORMANCE INDICATOR SPECIFICATION	DWR_PRFMNC_IND_SPEC
PERFORMANCE IP ADDRESS	DWR_PRFMNC_IP_ADDR
PERFORMANCE MOBILE ADDRESS	DWB_PRFMNC_MBL_ADDR
PERFORMANCE NETWORK ADDRESS	DWR_PRFMNC_NTWK_ADDR
PERFORMANCE NOTIFICATION	DWB_PRFMNC_NTFCTN
PERFORMANCE NOTIFICATION SPECIFICATION	DWR_PRFMNC_NTFCTN_SPEC
PERFORMANCE OBJECTIVE	DWR_PRFMNC_OBJCTV
PERFORMANCE OBJECTIVE APPLICABILITY	DWR_PRFMNC_OBJCTV_APLBLETY
PERFORMANCE OBJECTIVE APPLICABILITY CONSEQUENCE	DWR_PRFMNC_OBJ_APLBLETY_CNSEQ
PERFORMANCE POINT CODE	DWR_PRFMNC_PNT_CD
PERFORMANCE SPEC INTERVAL CONVERSION	DWR_PRFMNC_SPEC_INTRVL_CNVRSN
PERFORMANCE SPECIFICATION	DWR_PRFMNC_SPEC
PERFORMANCE SPECIFICATION INTERVAL	DWR_PRFMNC_SPEC_INTRVL
PERIOD TO DATE TRANSFORMATION	DWR_PRD_TODATE_TRANS

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PERIOD TRANSFORMATION	DWR_PRD_TRANS
PERSONAL ID REQUIRED TYPE	DWL_PRSNL_ID_REQD_TYP
PHASE	DWR_PHS
PHONE NUMBER	DWR_PHONE_NBR
PHONE NUMBER POOL	DWR_PHONE_NBR_POOL
PHYSICAL CAPACITY	DWR_PHY_CPCTY
PHYSICAL CAPACITY DETAIL	DWR_PHY_CPCTY_DTL
PHYSICAL COMPONENT	DWR_PHY_CMPNT
PHYSICAL CONNECTOR	DWR_PHY_CNCTR
PHYSICAL CONTAINER	DWR_PHY_CONTNR
PHYSICAL COUNT DOCUMENT	DWB_PHY_CNT_DOC
PHYSICAL COUNT DOCUMENT LINE ITEM	DWB_PHY_CNT_DOC_LI
PHYSICAL DEVICE	DWR_PHY_DVC
PHYSICAL DEVICE ATOMIC	DWR_PHY_DVC_ATMC
PHYSICAL DEVICE COMPOSITE	DWR_PHY_DVC_CMPST
PHYSICAL DEVICE ROLE SPEC	DWR_PHY_DVC_RL_SPEC
PHYSICAL DEVICE ROLE SPEC DETAIL	DWR_PHY_DVC_RL_SPEC_DTL
PHYSICAL DEVICE SPEC	DWR_PHY_DVC_SPEC
PHYSICAL EQUIPMENT	DWR_PHY_EQPMNT
PHYSICAL LINK	DWR_PHY_LNK
PHYSICAL PORT	DWR_PHY_PRT
PHYSICAL PORT RESOURCE PORT ASSIGNMENT	DWR_PHY_PRT_RSCE_PRT_ASGN
PHYSICAL RESOURCE	DWR_PHY_RSCE
PHYSICAL RESOURCE ADDRESS	DWR_PHY_RSCE_ADDR
PHYSICAL RESOURCE CHARACTERISTIC	DWR_PHY_RSCE_CHAR
PHYSICAL RESOURCE PRODUCT SUBSCRIPTION	DWR_PHY_RSCE_PROD_SBRP
PHYSICAL RESOURCE ROLE	DWR_PHY_RSCE_RL
PHYSICAL RESOURCE ROLE ASSIGNMENT	DWR_PHY_RSCE_RL_ASGN
PHYSICAL RESOURCE ROLE SPECIFICATION	DWR_PHY_RSCE_RL_SPEC
PHYSICAL RESOURCE ROLE SPECIFICATION DETAIL	DWR_PHY_RSCE_RL_SPEC_DTL
PHYSICAL RESOURCE SPECIFICATION	DWR_PHY_RSCE_SPEC
PHYSICAL RESOURCE SPECIFICATION ATOMIC	DWR_PHY_RSCE_SPEC_ATMC
PHYSICAL RESOURCE SPECIFICATION COMPOSITE	DWR_PHY_RSCE_SPEC_CMPST
PIPE	DWR_PIPE
PIT CHARACTERISTIC	DWR_PIT_CHAR
PIT CHARACTERISTIC TYPE	DWL_PIT_CHAR_TYP
PLANNING PERIOD	DWR_PLNG_PRD

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PLANNING QUARTER	DWR_PLNG_QTR
PLANNING SEASON	DWR_PLNG_SEASON
PLANNING WEEK	DWR_PLNG_WK
PLANNING YEAR	DWR_PLNG_YR
PLATFORM	
POINT BLOCK	DWR_PNT_BLCK
POINT CODE	DWR_PNT_CD
POINT OF SALE DEPARTMENT	DWR_POS_DEPT
POINT OF SALE IDENTITY TYPE	DWL_POS_IDNT_TYP
POINT OF SALE TENDER FLOW DRVD	DWD_POS_TNDR_FLOW
POINT OF SALE TYPE	DWL_POS_TYP
POINTS EXPIRY BASIS	DWR_PTS_EXPRY_BASIS
POLICIER SERVICE	DWR_PLCIR_SRVC
POLICY	DWR_PLCY
POLICY ACTION	DWR_PLCY_ACTN
POLICY ACTION ASSIGNMENT	DWR_PLCY_ACTN_ASGN
POLICY ACTION ATOMIC	DWR_PLCY_ACTN_ATMC
POLICY ACTION COMPOSITE	DWR_PLCY_ACTN_CMPST
POLICY ACTION RULE ASSIGNMENT	DWR_PLCY_ACTN_RULE_ASGN
POLICY ACTION VENDOR	DWR_PLCY_ACTN_VNDR
POLICY APPLICATION ASSIGNMENT	DWR_PLCY_APPLN_ASGN
POLICY CONDITION	DWR_PLCY_CNDTN
POLICY CONDITION ASSIGNMENT	DWR_PLCY_CNDTN_ASGN
POLICY CONDITION ATOMIC	DWR_PLCY_CNDTN_ATMC
POLICY CONDITION COMPOSITE	DWR_PLCY_CNDTN_CMPST
POLICY CONDITION RULE ASSIGNMENT	DWR_PLCY_CNDTN_RULE_ASGN
POLICY CONDITION TIME PERIOD	DWR_PLCY_CNDTN_TIME_PRD
POLICY CONDITION VENDOR	DWR_PLCY_CNDTN_VNDR
POLICY EVENT	DWB_PLCY_EVT
POLICY EVENT ATOMIC	DWB_PLCY_EVT_ATMC
POLICY EVENT COMPOSITE	DWB_PLCY_EVT_CMPST
POLICY GROUP	DWR_PLCY_GRP
POLICY GROUP EXECUTION DETAIL	DWR_PLCY_GRP_EXEC_DTL
POLICY OPERATOR	DWR_PLCY_OPRTR
POLICY OPERATOR VARIABLE ASSIGNMENT	DWR_PLCY_OPRTR_VARBLE_ASGN
POLICY ROLE	DWR_PLCY_RL
POLICY RULE	DWR_PLCY_RULE

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
POLICY SET	DWR_PLCY_SET
POLICY SET ASSIGNMENT	DWR_PLCY_SET_ASGN
POLICY STATEMENT	DWR_PLCY_STMT
POLICY VALUE	DWR_PLCY_VAL
POLICY VARIABLE	DWR_PLCY_VARBLE
POLICY VARIABLE VALUE ASSIGNMENT	DWR_PLCY_VARBLE_VAL_ASGN
POSTAL SERVICE TYPE	DWL_POSTL_SRVC_TYP
POSTCODE	DWR_POSTCD
PPA CATEGORY	DWL_PPA_CTGRY
PPA DEDUCTION TYPE	DWL_PPA_DEDCTN_TYP
PREAMBLE MARKER SERVICE	DWR_PRAMBL_MRKR_SRVC
PREAMBLE MARKING DETAILS ASSIGNMENT	DWR_PRAMBL_MRKNG_DTLS_ASGN
PREFERENCE TYPE	DWL_PREF_TYP
PREPAID ACCOUNT STATISTIC DRVD	DWD_PRPD_ACCT_STTSTC_DAY
PREPAID ALLOWANCE DAY DRVD	DWD_PRPD_ALWNCE_DAY
PREPAID ALLOWANCE MONTH AGGR	DWA_PRPD_ALWNCE_MO
PREPAID MOBILE EVENT TYPE	DWL_PRPD_MBL_EVT_TYP
PREPAID RECHARGE	DWB_PRPD_RCHRG
PREPAID VOUCHER	DWR_PRPD_VCHR
PREPAID VOUCHER BATCH	DWR_PRPD_VCHR_BTCH
PREPAID VOUCHER RECHARGE OPTION	DWR_PRPD_VCHR_RCHRG_OPTN
PREPAID VOUCHER SPECIFICATION	DWR_PRPD_VCHR_SPEC
PRICE DERIVATION RULE	DWR_PRICE_DRVTN_RULE
PRICE EVENT	DWB_PRICE_EVT
PRICE REASON	DWL_PRICE_RSN
PRICE TYPE	DWL_PRICE_TYP
PRICE TYPE RELATION REASON	DWL_PRICE_TYPE_RLTN_RSN
PRICE TYPE RELATIONSHIP	DWR_PRICE_TYP_RLTN
PRIORITY QUEUING SERVICE	DWR_PRIORITY_QUENG_SRVC
PROBLEM	DWB_PRBLM
PROBLEM COMMENTS	DWB_PRBLM_CMNTS
PROBLEM ESCALATION LEVEL	DWL_PRBLM_ESCALATN_LVL
PROBLEM LOCATION ASSIGNMENT	DWB_PRBLM_LOC_ASGN
PROBLEM RELATIONSHIP	DWB_PRBLM_RLTN
PROBLEM RESOURCE ASSIGNMENT	DWB_PRBLM_RSCE_ASGN
PROBLEM SERVICE ASSIGNMENT	DWB_PRBLM_SRVC_ASGN
PROBLEM STATUS HISTORY	DWB_PRBLM_STAT_HIST

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PROBLEM TRACKING RECORD ASSIGNMENT	DWB_PRBLM_TRKNG_REC_ASGN
PROBLEM TROUBLE TICKET ASSIGNMENT	DWR_PRBLM_TRBLE_TCKT_ASGN
PROCESS	DWR_PRCS
PROCESS COST	DWB_PRCS_COST
PROCESS EVENT	DWB_PRCS_EVT
PROCESS EVENT ASSIGNMENT	DWR_PRCS_EVT_ASGN
PROCESS EVENT PARAMETER VALUE OPERATOR ASSIGNMENT	DWB_PRCSEVT_PRMTRVAL_OPRTR_ASG
PROCESS EVENT PRODUCT OFFER PRICE ASSIGNMENT	DWR_PRCE_EVT_PRODOFR_PRCE_ASGN
PROCESS INVOICE DAY DRVD	DWD_PRCS_INVC_DAY
PROCESS INVOICE DISPATCHING EVENT	DWB_PRCS_INVC_DSPTCHG_EVT
PROCESS INVOICE GENERATION EVENT	DWB_PRCS_INVC_GNRTN_EVT
PROCESS INVOICE ISSUING EVENT	DWB_PRCS_INVC_ISSNG_EVT
PROCESS PARAMETER	DWR_PRCS_PRMTR
PROCESS PARAMETER ASSIGNMENT	DWR_PRCS_PRMTR_ASGN
PROCESS PARAMETER OPERATOR	DWL_PRCS_PRMTR_OPRTR
PROCESS PARAMETER VALUE	DWR_PRCS_PRMTR_VAL
PROCESS RELATIONSHIP	DWR_PRCS_RLTN
PROCESS RELATIONSHIP TYPE	DWL_PRCS_RLTN_TYP
PROCESS SPECIFICATION	DWR_PRCS_SPEC
PROCESS SPECIFICATION RELATIONSHIP	DWR_PRCS_SPEC_RLTN
PROCESS STATUS	DWL_PRCS_STAT
PROCESS TYPE	DWL_PRCS_TYP
PRODUCT	DWR_PROD
PRODUCT BRAND	DWL_PROD_BRND
PRODUCT CAPABILITY	DWR_PROD_CAPBLTY
PRODUCT CAPABILITY TYPE	DWL_PROD_CAPBLTY_TYP
PRODUCT CAPABILITY VALUE	DWR_PROD_CAPBLTY_VAL
PRODUCT CATALOG	DWR_PROD_CTLG
PRODUCT CATALOG CHARACTERISTIC	DWR_PROD_CTLG_CHAR
PRODUCT CATALOG CHARACTERISTIC ASSIGNMENT	DWR_PROD_CTLG_CHAR_ASGN
PRODUCT CATALOG CHARACTERISTIC RELATIONSHIP	DWR_PROD_CTLG_CHAR_RLTN
PRODUCT CATALOG CHARACTERISTIC VALUE	DWR_PROD_CTLG_CHAR_VAL
PRODUCT CATALOG CHARACTERISTIC VALUE ASSIGNMENT	DWR_PROD_CTLG_CHAR_VAL_ASGN
PRODUCT CATALOG CHARACTERISTIC VALUE RELATIONSHIP	DWR_PROD_CTLG_CHAR_VAL_RLTN
PRODUCT CATALOG GEOGRAPHY ASSIGNMENT	DWR_PROD_CTLG_GEO_ASGN

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PRODUCT CATALOG PRESENTATION TYPE	DWL_PROD_CTLG_PRSNT_TYP
PRODUCT CATALOG PRODUCT OFFERING ASSIGNMENT	DWR_PROD_CTLG_PROD_OFR_ASGN
PRODUCT CATALOG SALES CHANNEL ASSIGNMENT	DWR_PROD_CTLG_SL_CHNL_ASGN
PRODUCT CATALOG TYPE	DWL_PROD_CTLG_TYP
PRODUCT CHARACTERISTIC TYPE	DWL_PROD_CHAR_TYP
PRODUCT CHARACTERISTIC VALUE	DWR_PROD_CHAR_VAL
PRODUCT COVERAGE AREA	DWR_PROD_COVRG_AREA
PRODUCT COVERAGE GEOGRAPHY DETAIL	DWR_PROD_COVRG_GEO_DTL
PRODUCT FUNCTIONALITY DEPENDENCY	DWR_PROD_FNCTNLTY_DPNDNTCY
PRODUCT GEOGRAPHY ASSIGNMENT	DWR_PROD_GEO_ASGN
PRODUCT LINE	DWL_PROD_LN
PRODUCT OFFERING	DWR_PROD_OFR
PRODUCT OFFERING ASSIGNMENT TYPE	DWL_PROD_OFR_ASGN_TYP
PRODUCT OFFERING AVAILABILITY	DWR_PROD_OFR_AVLBLTY
PRODUCT OFFERING COST	DWB_PROD_OFR_COST
PRODUCT OFFERING DOCUMENT REQUIREMENT	DWR_PROD_OFR_DOC_REQRMNT
PRODUCT OFFERING GEOGRAPHY ASSIGNMENT	DWR_PROD_OFR_GEO_ASGN
PRODUCT OFFERING GROUP	DWR_PROD_OFR_GRP
PRODUCT OFFERING GROUP ASSIGNMENT	DWR_PROD_OFR_GRP_ASGN
PRODUCT OFFERING GROUP TYPE	DWL_PROD_OFR_GRP_TYP
PRODUCT OFFERING MANAGEMENT	DWB_PROD_OFR_MGMT
PRODUCT OFFERING MARKET SEGMENT AVAILABILITY	DWR_PROD_OFR_MKT_SGMNT_AVLBLTY
PRODUCT OFFERING ORGANIZATION AVAILABILITY	DWR_PROD_OFR_ORG_AVLBLTY
PRODUCT OFFERING PRICE	DWR_PROD_OFR_PRICE
PRODUCT OFFERING PRICE COMPONENT	DWR_PROD_OFR_PRICE_CMPNT
PRODUCT OFFERING PRICE COMPOSITE	DWR_PROD_OFR_PRICE_CMPST
PRODUCT OFFERING PRICE POLICY ACTION	DWR_PROD_OFR_PRICE_PLCY_ACTN
PRODUCT OFFERING PRICE POLICY CONDITION	DWR_PROD_OFR_PRICE_PLCY_CNDTN
PRODUCT OFFERING PRICE POLICY VALUE	DWR_PROD_OFR_PRICE_PLCY_VAL
PRODUCT OFFERING PRICE POLICY VARIABLE	DWR_PROD_OFR_PRICE_PLCY_VAR
PRODUCT OFFERING PRICE RECURRING	DWR_PROD_OFR_PRICE_RCRNG
PRODUCT OFFERING PRICE RELATIONSHIP	DWR_PROD_OFR_PRICE_RLTN
PRODUCT OFFERING PRICE RELATIONSHIP TYPE	DWL_PROD_OFR_PRICE_RLTN_TYP
PRODUCT OFFERING PRICE TYPE	DWL_PROD_OFR_PRICE_TYP
PRODUCT OFFERING PRODUCT ASSIGNMENT	DWR_PROD_OFR_PROD_ASGN

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PRODUCT OFFERING PRODUCT OFFERING PRICE ASSIGNMENT	DWR_PRODOFR_PRODOFR_PRICE_ASGN
PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT	DWR_PROD_OFR_PROD_SPEC_ASGN
PRODUCT OFFERING RATING PLAN	DWR_PROD_OFR_RTNG_PLN
PRODUCT OFFERING RATING PLAN DETAIL	DWR_PROD_OFR_RTNG_PLN_DTL
PRODUCT OFFERING RELATIONSHIP	DWR_PROD_OFR_RLTN
PRODUCT OFFERING RELATIONSHIP TYPE	DWL_PROD_OFR_RLTN_TYP
PRODUCT OFFERING SUBSTITUTE BY DOC	DWR_PROD_OFR_SUB_BY_DOC
PRODUCT OFFERING TERM	DWR_PROD_OFR_TERM
PRODUCT OFFERING TYPE	DWL_PROD_OFR_TYP
PRODUCT PRICE ALTERATION	DWR_PROD_PRICE_ALTRTN
PRODUCT PRICE COMPONENT	DWR_PROD_PRICE_CMPNT
PRODUCT PRICE PARTY ROLE	DWR_PROD_PRICE_PRTY_RL
PRODUCT PRODUCT CAPABILITY VALUE ASSIGNMENT	DWR_PROD_PROD_CAPBLTY_VAL_ASGN
PRODUCT RELATIONSHIP	DWR_PROD_RLTN
PRODUCT RELATIONSHIP TYPE	DWL_PROD_RLTN_TYP
PRODUCT SPEC CHAR RESOURCE SPEC CHAR ASSIGNMENT	DWR_PRDSPC_CHR_RSCESPC_CHR_AGN
PRODUCT SPEC CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT	DWR_PDSPC_CHRVL_RESPC_CHRVL_AN
PRODUCT SPECIFICATION	DWR_PROD_SPEC
PRODUCT SPECIFICATION ADDITIONAL TEXT	DWR_PROD_SPEC_ADTNL_TXT
PRODUCT SPECIFICATION ASSIGNMENT REASON	DWL_PROD_SPEC_ASGN_RSN
PRODUCT SPECIFICATION CATEGORY	DWL_PROD_SPEC_CTGRY
PRODUCT SPECIFICATION CHARACTERISTIC	DWR_PROD_SPEC_CHAR
PRODUCT SPECIFICATION CHARACTERISTIC CONFIGURABLE ASSIGNMENT	DWR_PROD_SPEC_CHAR_CFG_ASGN
PRODUCT SPECIFICATION CHARACTERISTIC RELATIONSHIP	DWR_PROD_SPEC_CHAR_RLTN
PRODUCT SPECIFICATION CHARACTERISTIC USE	DWR_PROD_SPEC_CHAR_USE
PRODUCT SPECIFICATION CHARACTERISTIC VALUE	DWR_PROD_SPEC_CHAR_VAL
PRODUCT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP	DWR_PROD_SPEC_CHAR_VAL_RLTN
PRODUCT SPECIFICATION CHARACTERISTIC VALUE USE	DWR_PROD_SPEC_CHAR_VAL_USE
PRODUCT SPECIFICATION COLUMN	
PRODUCT SPECIFICATION COST	DWB_PROD_SPEC_COST
PRODUCT SPECIFICATION COVERAGE AREA TYPE	DWL_PROD_SPEC_COVRG_AREA_TYP
PRODUCT SPECIFICATION COVERAGE GEO DETAIL	DWR_PROD_COVRG_GEO_DTL

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PRODUCT SPECIFICATION GROUP	DWL_PROD_SPEC_GRP
PRODUCT SPECIFICATION GROUP ASSIGNMENT	DWR_PROD_SPEC_GRP_ASGN
PRODUCT SPECIFICATION GROUP TYPE	DWL_PROD_SPEC_GRP_TYP
PRODUCT SPECIFICATION HISTORY	DWR_PROD_SPEC_HIST
PRODUCT SPECIFICATION MANAGEMENT HISTORY	DWB_PROD_SPEC_MGMT_HIST
PRODUCT SPECIFICATION MANAGEMENT REASON	DWL_PROD_SPEC_MGMT_RSN
PRODUCT SPECIFICATION MANAGEMENT ROLE	DWL_PROD_SPEC_MGMT_RL
PRODUCT SPECIFICATION NETWORK ASSIGNMENT	DWR_PROD_SPEC_NTWK_ASGN
PRODUCT SPECIFICATION RELATIONSHIP	DWR_PROD_SPEC_RLTN
PRODUCT SPECIFICATION STATUS HISTORY	DWB_PROD_SPEC_STAT_HIST
PRODUCT SPECIFICATION STATUS TYPE	DWL_PROD_SPEC_STAT_TYP
PRODUCT SPECIFICATION TYPE	DWL_PROD_SPEC_TYP
PRODUCT SPECIFICATION VERSION	DWR_PROD_SPEC_VRSN
PRODUCT STATUS HISTORY	DWB_PROD_STAT_HIST
PRODUCT STATUS TYPE	DWL_PROD_STAT_TYP
PRODUCT SUBSCRIPTION	DWR_PROD_SBRP
PRODUCT SUBSCRIPTION ASSIGNMENT	DWR_PROD_SBRP_ASGN
PRODUCT SUBSCRIPTION ASSIGNMENT TYPE	DWL_PROD_SBRP_ASGN_TYP
PRODUCT SUBSCRIPTION EVENT TYPE	DWL_PROD_SBRP_EVT_TYP
PRODUCT SUBSCRIPTION PRICE	DWR_PROD_SBRP_PRICE
PRODUCT SUBSCRIPTION PRICE RELATIONSHIP	DWR_PROD_SBRP_PRICE_RLTN
PRODUCT SUBSCRIPTION PRODUCT OFFERING PRICE ASSIGNMENT	DWR_PROD_SBRP_PRODOFRPRIE_ASGN
PRODUCT SUBSCRIPTION STATUS	DWL_PROD_SBRP_STAT
PRODUCT SUBSCRIPTION STATUS CATEGORY	DWL_PROD_SBRP_STAT_CTGRY
PRODUCT SUBSCRIPTION STATUS HISTORY	DWB_PROD_SBRP_STAT_HIST
PRODUCT SUBSCRIPTION STATUS REASON	DWL_PROD_SBRP_STAT_RSN
PRODUCT SUBSCRIPTION STATUS TYPE	DWL_PROD_SBRP_STAT_TYP
PRODUCT SUBSCRIPTION TERM TYPE	DWL_PROD_SBRP_TERM_TYP
PRODUCT SUBSCRIPTION TYPE	DWL_PROD_SBRP_TYP
PRODUCT USERNAME	DWR_PROD_USRNM
PROJECT	DWR_PROJ
PROJECT ELEMENT	DWR_PROJ_ELMNT
PROMOTION	DWR_PRMTN
PROMOTION CLUSTER USAGE	DWB_PRMTN_CLSTR_USG
PROMOTION CONTACT LIST UTILIZATION	DWB_PRMTN_CNCT_LST_UTLZTN
PROMOTION COST	DWB_PRMTN_COST

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PROMOTION MANAGEMENT HISTORY	DWB_PRMTN_MGMT_HIST
PROMOTION MESSAGE RENDERING	DWR_PRMTN_MSG_RNDRNG
PROMOTION PRODUCT CATALOG ASSIGNMENT	DWR_PRMTN_PROD_CTLG_ASGN
PROMOTION PRODUCT OFFERING ASSIGNMENT	DWR_PRMTN_PROD_OFR_ASGN
PROMOTION RELATIONSHIP	DWR_PRMTN_RLTN
PROMOTION RESULT TYPE	DWL_PRMTN_RSLT_TYP
PROMOTION SALES CHANNEL ASSIGNMENT	DWR_PRMTN_SL_CHNL_ASGN
PROMOTION SVM FACTOR	TBS
PROMOTION SVM ROC	TBS
PROMOTION TERM TYPE	DWL_PRMTN_TERM_TYP
PROMOTION TERM VALUE	DWB_PRMTN_TERM_VAL
PROMOTION TYPE	DWL_PRMTN_TYP
PROPERTY	DWR_PRPTY
PROPERTY ADDRESS LOCATION ASSIGNMENT	DWR_PRPTY_ADDR_LOC_ASGN
PROPOSAL	DWR_PROPOSAL
PROPOSAL RELATIONSHIP	DWR_PROPOSAL_RLTN
PROSPECT	DWR_PRSPCT
PROSPECT INDIVIDUAL	DWR_PRSPCT_INDVL
PROSPECT ORGANIZATION	DWR_PRSPCT_ORG
PROSPECT PRIORITY TYPE	DWL_PRSPCT_PRIORITY_TYP
PROSPECT QUALITY SCORE TYPE	DWL_PRSPCT_QLTY_SCR_TYP
PROSPECT QUALITY SCORE VALUE	DWR_PRSPCT_QLTY_SCR_VAL
PROSPECT REJECT REASON	DWL_PRSPCT_REJECT_RSN
PROSPECT RESTRICTED INFORMATION	DWR_PRSPCT_RSTRCT_INFO
PROTOCOL	DWR_PROTCL
PTV FULL CHANNEL ACTIVATION	DWB_PTV_FULL_CHNL_ACTVTN
PTV QPI SERVICE EVENT	DWB_PTV_QPI_SRVC_EVT
PTV USAGE EVENT	DWB_PTV_USG_EVT
PUBLICATION	DWR_PBLCTN
PUBLICATION TYPE	DWL_PBLCTN_TYP
PURCHASE ORDER	DWB_PCHSE_ORDR
PURCHASE ORDER LINE ITEM	DWB_PCHSE_ORDR_LN_ITEM
PURCHASE ORDER LINE ITEM STATE	DWB_PCHSE_ORDR_LN_ITEM_STATE
PURCHASE ORDER STATE	DWB_PCHSE_ORDR_STATE
PURCHASE ORDER STATE TYPE	DWL_PCHSE_ORDR_STATE_TYP
PV BIT STRING VALUE	DWR_PV_BIT_STRING_VAL
PV BOOLEAN VALUE	DWR_PV_BOLEN_VAL

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
PV INTEGER VALUE	DWR_PV_INTEGER_VAL
PV IP ADDRESS VALUE	DWR_PV_IP_ADDR_VAL
PV MAC ADDRESS VALUE	DWR_PV_MAC_ADDR_VAL
PV STRING VALUE	DWR_PV_STRING_VAL
PVAR 1QCOS VARIABLE	DWR_PVAR_1QCOS_VARBLE
PVAR BIT STRING VARIABLE	DWR_PVAR_BIT_STRING_VARBLE
PVAR DN VARIABLE	DWR_PVAR_DN_VARBLE
PVAR DSCP VARIABLE	DWR_PVAR_DSCP_VARBLE
PVAR ETHER TYPE VARIABLE	DWR_PVAR_ETHER_TYP_VARBLE
PVAR IP PROTOCOL VARIABLE	DWR_PVAR_IP_PROTCL_VARBLE
PVAR IPTOS VARIABLE	DWR_PVAR_IPTOS_VARBLE
PVAR IPV4 VARIABLE	DWR_PVAR_IPV4_VARBLE
PVAR IPV6 FLOW VARIABLE	DWR_PVAR_IPV6_FLOW_ID_VARBLE
PVAR IPV6 VARIABLE	DWR_PVAR_IPV6_VARBLE
PVAR IPVERSION VARIABLE	DWR_PVAR_IPVRSN_VARBLE
PVAR MAC VARIABLE	DWR_PVAR_MAC_VARBLE
PVAR PORT VARIABLE	DWR_PVAR_PRT_VARBLE
PVAR STRING VARIABLE	DWR_PVAR_STRING_VARBLE
PVAR VLAN VARIABLE	DWR_PVAR_VLAN_VARBLE
QOS SERVICE	DWR_QOS_SRVC
QOS SERVICE RELATIONSHIP	DWR_QOS_SRVC_RLTN
QOS SERVICE SPEC TYPE	DWL_QOS_SRVC_SPEC_TYP
QUARTER HOUR	DWR_QTR_HR
QUARTER TO DATE TRANSFORMATION	DWR_QTR_TODATE_TRANS
QUARTER TRANSFORMATION	DWR_QTR_TRANS
QUEUE SERVICE	DWR_QUE_SRVC
RACK	DWR_RACK
RATABLE UNIT MEASUREMENT	DWL_RATABLE_UNIT_MEASUREMENT
RATED UDR EVENT	DWB_RTD_UDR_EVT
RATING METHOD TYPE	DWL_RTNG_MTHD_TYP
RAW MMS EVENT	DWB_RAW_MMS_EVT
RAW WIRELESS CALL EVENT	DWB_RAW_WRLS_CALL_EVT
REASON	DWL_RSN
REASON CATEGORY	DWL_RSN_CTGRY
RECHARGE REVENUE SLAB	DWL_RECHRG_RVN_SLB
RED DROPPER SERVICE	DWR_RED_DRPPR_SRVC
RED SERVICE ELEMENT	DWR_RED_SRVC_ELMNT

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
REDEMPTION EVENT	DWB_REDEM_EVT
REDEMPTION MO AGGR	DWA_RDMPTN_MO
REDEMPTION TYPE	DWL_RDMPTN_TYP
REFERRING CATEGORY	DWR_REFERRING_CTGRY
REFERRING CATEGORY LEVEL	DWR_REFERRING_CTGRY_LVL
REFERRING SITE	
REFERRING URL	DWR_REFERRING_URL
RELATION TYPE	DWL_RLTN_TYP
RELIGION	DWL_RELGN
RELIGIOUS AFFILIATION	DWL_RELIGIOUS_AFFLTN
REMOTE RADIO UNIT	
REPLACEMENT SET	DWR_RPLCMT_SET
RESOURCE	DWR_RSCE
RESOURCE ALARM	DWB_RSCE_ALRM
RESOURCE ALARM COMMENT	DWB_RSCE_ALRM_CMNT
RESOURCE ALARM RELATIONSHIP	DWB_RSCE_ALRM_RLTN
RESOURCE ALARM RESOURCE ASSIGNMENT	DWB_RSCE_ALRM_RSCE_ASGN
RESOURCE ALARM TRACKING RECORD ASSIGNMENT	DWB_RSCE_ALRM_TRKNG_REC_ASGN
RESOURCE BUSINESS INTERACTION ROLE	DWB_RSCE_BSNS_INTRACN_RL
RESOURCE CHARACTERISTIC	DWR_RSCE_CHAR
RESOURCE CHARACTERISTIC ASSIGNMENT	DWR_RSCE_CHAR_ASGN
RESOURCE CHARACTERISTIC RELATIONSHIP	DWR_RSCE_CHAR_RLTN
RESOURCE CHARACTERISTIC VALUE	DWR_RSCE_CHAR_VAL
RESOURCE CHARACTERISTIC VALUE ASSIGNMENT	DWR_RSCE_CHAR_VAL_ASGN
RESOURCE CHARACTERISTIC VALUE RELATIONSHIP	DWR_RSCE_CHAR_VAL_RLTN
RESOURCE COST	DWB_RSCE_COST
RESOURCE FACING SERVICE	DWR_RSCE_FCNG_SRVC
RESOURCE FACING SERVICE ROLE	DWR_RSCE_FCNG_SRVC_RL
RESOURCE FACING SERVICE SPEC VERSION	DWR_RSCE_FCNG_SRVC_SPEC_VRSN
RESOURCE FACING SERVICE SPECIFICATION	DWR_RSCE_FCNG_SRVC_SPEC
RESOURCE FACING SERVICE SPECIFICATION ATOMIC	DWR_RSCE_FCNG_SRVC_SPEC_ATMC
RESOURCE FACING SERVICE SPECIFICATION COMPOSITE	DWR_RSCE_FCNG_SRVC_SPEC_CMPST
RESOURCE FACING SERVICE SPECIFICATION ROLE	DWR_RSCE_FCNG_SRVC_SPEC_RL
RESOURCE FAULT ASSIGNMENT	DWB_RSCE_FLT_ASGN
RESOURCE HISTORY	DWB_RSCE_HIST
RESOURCE INVOLVEMENT ROLE	DWR_RSCE_INVLMNT_RL

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
RESOURCE ORDER	DWB_RSCE_ORDR
RESOURCE ORDER LINE ITEM	DWB_RSCE_ORDR_LN_ITEM
RESOURCE PARTY ASSOCIATION	DWR_RSCE_PRTY_ASSOCTN
RESOURCE PARTY MANAGEMENT	DWR_RSCE_PRTY_MGMT
RESOURCE PERFORMANCE	DWB_RSCE_PRFMNC
RESOURCE PERFORMANCE SPEC	DWR_RSCE_PRFMNC_SPEC
RESOURCE PORT	DWR_RSCE_PRT
RESOURCE RELATIONSHIP	DWR_RSCE_RLTN
RESOURCE RELATIONSHIP TYPE	DWL_RSCE_RLTN_TYP
RESOURCE ROLE	DWR_RSCE_RL
RESOURCE ROLE ASSIGNMENT	DWR_RSCE_RL_ASGN
RESOURCE ROLE PARTY ASSIGNMENT	DWR_RSCE_RL_PRTY_ASGN
RESOURCE ROLE PARTY ROLE DETAILS	DWR_RSCE_RL_PRTY_RL_DTLS
RESOURCE ROLE SPECIFICATION	DWR_RSCE_RL_SPEC
RESOURCE SPECIFICATION CATEGORY	DWL_RSCE_SPEC_CTGRY
RESOURCE SPECIFICATION CHARACTERISTIC	DWR_RSCE_SPEC_CHAR
RESOURCE SPECIFICATION CHARACTERISTIC ASSIGNMENT	DWR_RSCE_SPEC_CHAR_ASGN
RESOURCE SPECIFICATION CHARACTERISTIC RELATIONSHIP	DWR_RSCE_SPEC_CHAR_RLTN
RESOURCE SPECIFICATION CHARACTERISTIC VALUE	DWR_RSCE_SPEC_CHAR_VAL
RESOURCE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT	DWR_RSCE_SPEC_CHAR_VAL_ASGN
RESOURCE SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP	DWR_RSCE_SPEC_CHAR_VAL_RLTN
RESOURCE SPECIFICATION PERF ROLE	DWR_RSCE_SPEC_PERF_RL
RESOURCE SPECIFICATION TYPE	DWL_RSCE_SPEC_TYP
RESOURCE SPECIFICATION VERSION	DWR_RSCE_SPEC_VRSN
RESOURCE SPECIFICATION VERSION USAGE	DWR_RSCE_SPEC_VRSN_USG
RESOURCE SPECIFICATION	DWR_RSCE_SPEC
RESOURCE STATE HISTORY	DWB_RSCE_STATE_HIST
RESOURCE STATE REASON	DWL_RSCE_STATE_RSN
RESOURCE STATE TYPE	DWL_RSCE_STATE_TYP
RESOURCE USAGE EVENT TYPE	DWL_RSCE_USG_EVT_TYP
RETAIL SALES RETURN ITEM DAY DRVD	DWD_RTL_SL_RETRN_ITEM_DAY
RETAIL SALES RETURN LINE ITEM	DWB_RTL_SL_RTRN_LI
RETAIL STORE	DWR_RTL_STORE
RETAIL TENDER LINE ITEM	DWB_RTL_TNDR_LI
RETAIL TERMINAL STATUS	DWL_RTL_TRML_STAT

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
RETAIL TOUCHPOINT	DWR_RTL_TCHPNT
RETAIL TRANSACTION	DWB_RTL_TRX
RETAIL TRANSACTION LINE ITEM	DWB_RTL_TRX_LN_ITEM
RETAIL TRANSACTION LINE ITEM TYPE	DWL_RTL_TRX_LI_TYP
RETAIL TYPE	DWL_RTL_TYP
REVENUE DAY DRVD	DWD_RVN_DAY
REVENUE MONTH AGGR	DWA_RVN_MO
RF CARRIER	DWR_RF_CARRIER
RF NETWORK CAPACITY DAY DRVD	DWD_RF_NTWK_CPCTY_DAY
RF NETWORK CAPACITY MONTH AGGR	DWA_RF_NTWK_CPCTY_MO
RFMP METHOD	DWL_RFMP_MTHD
RFS SPEC VERSION DETAIL	DWR_RFS_SPEC_VRSN_DTL
RINGTONE	DWR_RNGTN
ROAMING TYPE	DWL_RMNG_TYP
ROLE	DWR_RL
ROLES HIERARCHY	DWR_RLS_HRCHY
ROOT ENTITY	DWR_ROOT_ENT
ROOT ENTITY TYPE	DWL_ROOT_ENT_TYP
ROUND ROBIN SCHEDULING SERVICE	DWR_RND_RBIN_SCHDLNG_SRVC
ROUTED PROTOCOL	DWR_ROUTED_PROTCL
ROUTER	DWR_ROUTER
ROUTING DEVICE	DWR_RUTNG_DVC
ROUTING PROTOCOL	DWR_RUTNG_PROTCL
ROUTING ROLE	DWR_RUTNG_RL
SALE OR RETURN ACTION	DWL_SL_OR_RETRN_ACTN
SALES CAMPAIGN SUMMARY MONTH AGGR	DWA_SL_CMPGN_SUMM_MO
SALES CHANNEL	DWR_SL_CHNL
SALES CHANNEL COMMISSION PLAN ASSIGNMENT	DWB_SL_CHNL_CMISN_PLN_ASGN
SALES CHANNEL REPRESENTATIVE	DWR_SL_CHNL_RPRSTV
SALES COMMISSION DETAIL	DWB_SL_CMISN_DTL
SALES COMMISSION PAYROLL	DWB_SL_CMISN_PYRL
SALES COMMISSION PLAN	DWR_SL_CMISN_PLN
SALES COMMISSION PLAN DETAIL	DWR_SL_CMISN_PLN_DTL
SALES REPRESENTATIVE STATISTICS DRVD	DWD_SL_RPRSTV_STTSTC
SCD2	
SCD2 MULTILANGUAGE	
SCHEDULING SERVICE	DWR_SCHDLNG_SRVC

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
SCHEDULING SERVICE ATOMIC	DWR_SCHDLNG_SRVC_ATMC
SCHEDULING SERVICE COMPOSITE	DWR_SCHDLNG_SRVC_CMPST
SCRIPT	DWR_SCRPT
SCRIPT QUESTION	DWR_SCRPT_QUES
SCRIPT QUESTION TYPE	DWL_SCRPT_QUES_TYP
SEARCH	DWR_SEARCH
SEASON	DWL_SEASON
SECOND	DWR_SCND
SECURE HOLDER	DWR_SECURE_HLDR
SECURITY REQUIRED TYPE	DWL_SCRTY_REQD_TYP
SEGMENT CRITERIA	DWR_SGMNT_CRTRA
SEGMENT TYPE	DWL_SGMNT_TYP
SELLING LOCATION	DWR_SLNG_LOC
SELLING LOCATION TYPE	DWL_SLNG_LOC_TYP
SERVER	DWR_SERVER
SERVER FARM	DWR_SERVER_FARM
SERVER STATUS	DWL_SERVER_STAT
SERVICE	DWR_SRVC
SERVICE ADDRESS LOCATION ASSIGNMENT	DWR_SRVC_ADDR_LOC_ASGN
SERVICE BUNDLE	DWR_SRVC_BNDL
SERVICE BUNDLE SPECIFICATION	DWR_SRVC_BNDL_SPEC
SERVICE BUNDLE SPECIFICATION ATOMIC	DWR_SRVC_BNDL_SPEC_ATMC
SERVICE BUNDLE SPECIFICATION COMPOSITE	DWR_SRVC_BNDL_SPEC_CMPST
SERVICE CATEGORY	DWL_SRVC_CTGRY
SERVICE CHARACTERISTIC VALUE	DWR_SRVC_CHAR_VAL
SERVICE CHARACTERISTIC VALUE PRODUCT CHARACTERISTIC VALUE ASSIGNMENT	DWR_SRVC_CHRVL_PROD_CHRVL_ASGN
SERVICE CHARACTERISTIC VALUE RELATIONSHIP	DWR_SRVC_CHAR_VAL_RLTN
SERVICE CLASS	DWL_SRVC_CLASS
SERVICE CLASS TYPE	DWL_SRVC_CLASS_TYP
SERVICE COVERAGE AREA	DWR_SRVC_COVRG_AREA
SERVICE COVERAGE AREA TYPE	DWL_SRVC_COVRG_AREA_TYP
SERVICE COVERAGE GEO DETAIL	DWR_SRVC_COVRG_GEO_DTL
SERVICE DEPENDENCY	DWR_SRVC_DPNDCY
SERVICE DEVICE INTERFACE ASSIGNMENT	DWR_SRVC_DVC_INTRFC_ASGN
SERVICE EQUIPMENT ASSIGNMENT	DWR_SRVC_EQPMNT_ASGN
SERVICE LEVEL AGREEMENT	DWR_SRVC_LVL_AGRMNT

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
SERVICE LEVEL AGREEMENT ITEM	DWR_SRVC_LVL_AGRMNT_ITEM
SERVICE LEVEL AGREEMENT RELATIONSHIP	DWR_SRVC_LVL_AGRMNT_RLTN
SERVICE LEVEL AGREEMENT TYPE	DWL_SRVC_LVL_AGRMNT_TYP
SERVICE LEVEL AGREEMENT VIOLATION	DWB_SRVC_LVL_AGRMNT_VILTN
SERVICE LEVEL OBJECTIVE	DWR_SRVC_LVL_OBJCTV
SERVICE LEVEL SPEC APPLICABILITY	DWR_SRVC_LVL_SPEC_APLCBLTY
SERVICE LEVEL SPEC CONSEQUENCE	DWR_SRVC_LVL_SPEC_CNSEQ
SERVICE LEVEL SPEC PARAMETER	DWR_SRVC_LVL_SPEC_PRMTR
SERVICE LEVEL SPECIFICATION	DWL_SRVC_LVL_SPEC
SERVICE LEVEL UNMET CONSEQUENCE TYPE	DWL_SRVC_LVL_UNMET_CNSEQ_TYP
SERVICE LR DEPENDENCY	DWR_SRVC_LR_DPNDCY
SERVICE ORDER	DWB_SRVC_ORDR
SERVICE ORDER LINE ITEM	DWB_SRVC_ORDR_LN_ITEM
SERVICE PACKAGE	DWR_SRVC_PKG
SERVICE PACKAGE BUNDLE DETAIL	DWR_SRVC_PKG_BNDL_DTL
SERVICE PACKAGE SPECIFICATION	DWR_SRVC_PKG_SPEC
SERVICE PACKAGE SPECIFICATION ATOMIC	DWR_SRVC_PKG_SPEC_ATMC
SERVICE PACKAGE SPECIFICATION COMPOSITE	DWR_SRVC_PKG_SPEC_CMPST
SERVICE PARTY MANAGEMENT HISTORY	DWR_SRVC_PRTY_MGMT_HIST
SERVICE PERFORMANCE	DWB_SRVC_PRFMNC
SERVICE PERFORMANCE SPEC	DWR_SRVC_PRFMNC_SPEC
SERVICE PR DEPENDENCY	DWR_SRVC_PR_DPNDCY
SERVICE PROBLEM	DWB_SRVC_PRBLM
SERVICE PROBLEM CHAR TYPE	DWL_SRVC_PRBLM_CHAR_TYP
SERVICE PROBLEM CHARACTERISTIC	DWR_SRVC_PRBLM_CHAR
SERVICE PROBLEM CHARACTERISTIC VALUE	DWR_SRVC_PRBLM_CHAR_VAL
SERVICE PROBLEM DAY DRVD	DWD_SRVC_PRBLM_DAY
SERVICE PROBLEM RESOURCE ALARM ASSIGNMENT	DWB_SRVC_PRBLM_RSCE_ALRM_ASGN
SERVICE PROBLEM SERVICE ASSIGNMENT	DWB_SRVC_PRBLM_SRVC_ASGN
SERVICE PROBLEM SUBSCRIPTION ASSIGNMENT	DWB_SRVC_PRBLM_SBRP_ASGN
SERVICE REQUEST	DWB_SRVC_RQST
SERVICE RESOURCE ASSIGNMENT	DWR_SRVC_RSCE_ASGN
SERVICE ROLE	DWR_SRVC_RL
SERVICE SPECIFICATION	DWR_SRVC_SPEC
SERVICE SPECIFICATION ATOMIC	DWR_SRVC_SPEC_ATMC
SERVICE SPECIFICATION CHAR RESOURCE SPEC CHAR ASSIGNMENT	DWR_SRVSPC_CHR_RSCESPC_CHR_AGN

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
SERVICE SPECIFICATION CHAR USE	DWR_SRVC_SPEC_CHAR_USE
SERVICE SPECIFICATION CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT	DWR_SRSPC_CHRVL_RESPC_CHRVL_AN
SERVICE SPECIFICATION CHAR VALUE RELATIONSHIP	DWR_SRVC_SPEC_CHAR_VAL_RLTN
SERVICE SPECIFICATION CHAR VALUE USE	DWR_SRVC_SPEC_CHAR_VAL_USE
SERVICE SPECIFICATION CHARACTERISTIC	DWR_SRVC_SPEC_CHAR
SERVICE SPECIFICATION CHARACTERISTIC RELATIONSHIP	DWR_SRVC_SPEC_CHAR_RLTN
SERVICE SPECIFICATION CHARACTERISTIC VALUE	DWR_SRVC_SPEC_CHAR_VAL
SERVICE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT	DWR_SRVC_SPEC_CHAR_VAL_ASGN
SERVICE SPECIFICATION COMPOSITE	DWR_SRVC_SPEC_CMPST
SERVICE SPECIFICATION PRODUCT SPECIFICATION RELATIONSHIP	DWR_SRVC_SPEC_PROD_SPEC_RLTN
SERVICE SPECIFICATION RELATIONSHIP	DWR_SRVC_SPEC_RLTN
SERVICE SPECIFICATION RESOURCE SPEC RELATIONSHIP	DWR_SRVC_SPEC_RSCE_SPEC_RLTN
SERVICE SPECIFICATION ROLE	DWR_SRVC_SPEC_RL
SERVICE SPECIFICATION TYPE	DWL_SRVC_SPEC_TYP
SERVICE SPECIFICATION VERSION	DWR_SRVC_SPEC_VRSN
SERVICE STATUS	DWL_SRVC_STAT
SERVICE STATUS CATEGORY	DWL_SRVC_STAT_CTGRY
SERVICE STATUS HISTORY	DWB_SRVC_STAT_HIST
SERVICE STATUS REASON	DWL_SRVC_STAT_RSN
SERVICE TYPE	DWL_SRVC_TYP
SERVICE USAGE TYPE	DWL_SRVC_USG_TYP
SERVICE UTILIZATION DETAIL	DWR_SRVC_UTLZTN_DTL
SESSION	DWB_SESSION
SESSION TYPE	DWL_SESSION_TYP
SET TOP BOX	DWR_SET_TOP_BOX
SET TOP BOX MODEL	DWR_SET_TOP_BOX_MDL
SETTING ATTRIBUTE IMPORTANCE	TBS
SETTING CHURN DECISION TREE	TBS
SETTING CHURN DECISION TREE COST	TBS
SETTING CHURN SVM	TBS
SETTING CHURN SVM	TBS
SETTING CHURN SVM PRIORS	TBS
SETTING LIFE TIME VALUE SVM	TBS
SETTING PROFILE KMEANS	TBS

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
SETTING SENTIMENT SVM	TBS
SETTING USER ALL	TBS
SHAPER SERVICE	DWR_SHPR_SRVC
SHELF	DWR_SHELF
SIC ASSIGNMENT	DWR_SIC_ASGN
SIC ASSIGNMENT REASON	DWL_SIC_ASGN_RSN
SIC CLASSIFICATION	DWL_SIC_CLSFCTN
SIC DIVISION	DWR_SIC_DIV
SIC INDUSTRY GROUP	DWL_SIC_INDSTRY_GRP
SIGNALING PROTOCOL	DWR_SGNLNG_PROTCL
SIM CARD	DWR_SIM_CARD
SIM CARD ACCESS METHOD ASSIGNMENT	DWR_SIM_CARD_ACCS_MTHD_ASGN
SIM CARD ACCESS METHOD REASON	DWL_SIM_CARD_ACCS_MTHD_RSN
SIM CARD ACTIVATION REASON	DWL_SIM_CARD_ACTVTN_RSN
SIM CARD ACTIVATION TYPE	DWL_SIM_CARD_ACTVTN_TYP
SIM CARD HANDSET ASSIGNMENT	DWR_SIM_CARD_HNDST_ASGN
SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT	DWR_SIM_CARD_PROD_SBRP_ASGN
SIM CARD PRODUCT SUBSCRIPTION REASON	DWL_SIM_CARD_PROD_SBRP_RSN
SIM CARD TYPE	DWL_SIM_CARD_TYP
SITE	DWR_SITE
SITE INTERFACE ROLE	DWR_SITE_INTRFC_RL
SITE ROLE	DWR_SITE_RL
SITE TYPE	DWL_SITE_TYP
SKILL TYPE	DWL_SKILL_TYP
SKU ITEM	DWR_SKU_ITEM
SKU TYPE	DWL_SKU_TYP
SLOT	DWR_SLT
SLOT RELATIONSHIP	DWR_SLT_RLTN
SMS EVENT	DWB_SMS_EVT
SMS RATING PLAN	DWR_SMS_RTNG_PLN
SMS SERVICE	DWR_SMS_SRVC
SOC JOB	DWR_SOC_JB
SOC JOB CATEGORY	DWR_SOC_JB_CTGRY
SOC JOB GROUP	DWR_SOC_JB_GRP
SOC JOB MAJOR GROUP	DWR_SOC_JB_MJR_GRP
SOFTWARE	DWR_SOFTWARE
SOFTWARE ATOMIC	DWR_SOFTWARE_ATMC

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
SOFTWARE COMMAND	DWR_SOFTWARE_CMND
SOFTWARE COMPOSITE	DWR_SOFTWARE_CMPST
SOFTWARE FEATURE SETS	DWR_SOFTWARE_FTR_SETS
SOFTWARE OS RELATIONSHIP	DWR_SOFTWARE_OS_RLTN
SOURCE SYSTEM	DWR_SRC_SYS
SOURCE SYSTEM KEY MAPPING	DWR_SRC_SYS_KEY_MAPPING
SOURCE SYSTEM TYPE	DWL_SRC_SYS_TYP
SPECIFICATION	DWR_SPEC
SPECIFICATION ROLE	DWR_SPEC_RL
SPECTRUM COVERAGE AREA	DWR_SPTRUM_COVRG_AREA
SPNM	DWL_SPNM
SPNM OTHER PARTY NUMBER	DWR_SPNM_OTHR_PRTY_NBR
STANDARD MARKER SERVICE	DWR_STNDRD_MRKR_SRVC
STATISTICAL ENTITY	DWR_STTSTCL_ENT
STORE EFFICIENCY DAY DRVD	DWD_STORE_EFFNCY_DAY
STORE EFFICIENCY MONTH AGGR	DWA_STORE_EFFNCY_MO
STREET NAME	DWR_STRT_NAME
STREET SEGMENT	DWR_STRT_SGMNT
STREET SEGMENT ADDRESS ASSIGNMENT	DWR_STRT_SGMNT_ADDR_ASGN
STRICT SCHEDULING SERVICE	DWR_STRCT_SCHDLNG_SRVC
SUB NETWORK	DWR_SB_NTWK
SUBSCRIBER ACTIVATION REASON	DWL_SBSCRP_ACTVTN_RSN
SUBSCRIPTION RESOURCE ROLE ASSIGNMENT	DWR_SBRP_RSCE_RL_ASGN
SUBSCRIPTION SERVICE ASSIGNMENT	DWR_SBRP_SRVC_ASGN
SUBSCRIPTION SERVICE CLASS ASSIGNMENT	DWR_SBRP_SRVC_CLASS_ASGN
SUBSCRIPTION STATISTIC MONTH AGGR	DWA_SBSCBR_STTSTC_MO
SUBSCRIPTION TERM VALUE	DWB_SBRP_TERM_VAL
SUBSIDY TYPE	DWL_SUBSDY_TYP
SUPPLEMENTARY SERVICE	DWR_SPLMNTR_SRVC
SUPPLEMENTARY SERVICE USAGE DRVD	DWD_SPLMNTR_SRVC_USG
SUPPLEMENTARY SERVICE USAGE MONTH AGGR	DWA_SPLMNTR_SRVC_USG_MO
SURVEY	DWR_SURVEY
SWITCH	DWR_SWTCH
SWITCH CAPABILITY	DWR_SWTCH_CAPBLTY
SWITCH CAPABILITY TYPE	DWL_SWTCH_CAPBLTY_TYP
SWITCH COMMAND	DWR_SWTCH_CMMND
SWITCH ROUTING DEVICE ASSIGNMENT	DWR_SWTCH_RUTNG_DVC_ASGN

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
SWITCH TYPE	DWL_SWTCH_TYP
SWITCHING PROTOCOL	DWR_SWTCHNG_PROTCL
SWITCHING ROLE	DWR_SWTCHNG_RL
SWOT TYPE	DWL_SWOT_TYP
SYMBOLOGY	DWR_SYMBLGY
TAP IN WIRELESS ROAMING EVENT	DWB_TAP_IN_WRLS_RMNG_EVT
TAP OUT WIRELESS ROAMING EVENT	DWB_TAP_OUT_WRLS_RMNG_EVT
TARGET ACCESS METHOD	DWR_TRGT_ACCS_MTHD
TARGET ACCOUNT	DWR_TRGT_ACCT
TARGET AGREEMENT	DWR_TRGT_AGRMNT
TARGET GEOGRAPHY AREA	DWR_TRGT_GEO_AREA
TARGET MARKET SEGMENT	DWR_TRGT_MKT_SGMNT
TARGET TYPE	DWL_TRGT_TYP
TASK	DWR_TASK
TAX AUTHORITY	DWR_TAX_AUTH
TAX CATEGORY	DWL_TAX_CTGRY
TAX EXEMPT	DWR_TAX_EXMPT
TCH TYPE	DWL_TCH_TYP
TECHNOLOGY	DWL_TECH
TECHNOLOGY TYPE	DWL_TECH_TYP
TEMPLATE SERVICE LEVEL SPEC	DWR_TEMPLATE_SRVC_LVL_SPEC
TENDER	DWR_TNDR
TENDER CLASS	DWL_TNDR_CLASS
TENDER CONTROL TRANSACTION	DWB_TNDR_CNTRL_TRX
TERMINATION POINT	DWR_TMNT_PNT
TIER CARD TYPE	DWL_TIER_CARD_TYP
TIME BAND	DWR_TIME_BND
TIME SLOT	DWR_TIME_SLT
TIME STANDARD BY DAY	DWR_TIME_STNDRD_BY_DAY
TIME STANDARD BY WEEK	DWR_TIME_STNDRD_BY_WK
TIME TOTAL	DWR_TIME_TOT
TIME ZONE	DWL_TIME_ZN
TMF KPI DRVD	DWD_TMF_KPI
TOKEN BUCKET	DWR_TOKN_BCKT
TOS SERVICE	DWR_TOS_SRVC
TRACKING RECORD	DWB_TRKNG_REC
TRAFFIC CONDITIONING SERVICE	DWR_TRFC_CNDITNNG_SRVC

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
TRAFFIC IDENTIFICATION SERVICE	DWR_TRFC_ID_SRVC
TRAFFIC MATCH CRITERIA	DWR_TRFC_MTCH_CRTRA
TRAIL	DWR_TRAIL
TRAIL TERMINATION POINT	DWR_TRAIL_TMNT_PNT
TRANSACTION CATEGORY	DWL_TRX_CTGRY
TRANSACTION TYPE	DWL_TRX_TYP
TRANSFER TYPE	DWL_TRNSFR_TYP
TROUBLE TICKET	DWB_TRBLE_TCKT
TROUBLE TICKET FIELD SUPPORT ASSIGNMENT	DWB_TRBLE_TCKT_FLD_SPPRT_ASGN
TROUBLE TICKET ITEM	DWB_TRBLE_TCKT_ITEM
TRUNK GROUP	DWL_TRNK_GRP
TV CHANNEL	DWR_TV_CHNL
UDR EVENT	DWB_UDR_EVT
UDR EVENT ASSIGNMENT	DWB_UDR_EVT_ASGN
UDR EVENT CHARACTERISTIC	DWR_UDR_EVT_CHAR
UDR EVENT CHARACTERISTIC RELATIONSHIP	TBS
UDR EVENT CHARACTERISTIC TYPE	DWL_UDR_EVT_CHAR_TYP
UDR EVENT CHARACTERISTIC VALUE	DWR_UDR_EVT_CHAR_VAL
UDR EVENT SPECIFICATION	DWR_UDR_EVT_SPEC
UDR EVENT SPECIFICATION CHARACTERISTIC	DWR_UDR_EVT_SPEC_CHAR
UDR EVENT SPECIFICATION CHARACTERISTIC RELATIONSHIP	DWR_UDR_EVT_CHAR_RLTN
UDR EVENT SPECIFICATION CHARACTERISTIC USE	DWR_UDR_EVT_SPEC_CHAR_USE
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE	DWR_UDR_EVT_SPEC_CHAR_VAL
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP	DWR_UDR_EVT_SPEC_CHAR_VAL_RLTN
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE USE	DWR_UDR_EVT_SPEC_CHAR_VAL_USE
UDR EVENT SPECIFICATION RELATIONSHIP	DWR_UDR_EVT_SPEC_RLTN
UDR EVENT SPECIFICATION TYPE	DWL_UDR_EVT_SPEC_TYP
UDR EVENT SPECIFICATION VERSION	DWR_UDR_EVT_SPEC_VRSN
UDR EVENT STATUS	DWL_UDR_EVT_STAT
UDR EVENT TYPE	DWL_UDR_EVT_TYP
UDR EVENT TYPE VERSION	DWR_UDR_EVT_TYP_VRSN
UMS ACCESS TYPE	DWL_UMS_ACCS_TYP
UMS EVENT	DWB_UMS_EVT
UMS EVENT TYPE	DWL_UMS_EVT_TYP
UNIT ALLOWANCE	DWB_UNIT_ALWNCE

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
UNIT OF MEASURE	DWL_UOM
URBAN PROPERTY ADDRESS	DWR_URBN_PRPTY_ADDR
USAGE TYPE	DWL_USG_TYP
USER	DWR_USER
VALUE ADDED SERVICE	DWR_VAL_ADD_SRVC
VALUE CUSTOM	DWR_VAL_CSTM
VALUE STANDARD	DWR_VAL_STNDRD
VALUE TYPE	DWL_VAL_TYP
VARIABLE CUSTOM	DWR_VARBLE_CSTM
VARIABLE STANDARD	DWR_VARBLE_STNDRD
VAS SUBSCRIPTION	DWR_VAS_SBRP
VAS SUBSCRIPTION QUICK SUMMARY DRVD	DWD_VAS_SBRP_QCK_SUMM
VAS SUBSCRIPTION QUICK SUMMARY MO AGGR	DWA_VAS_SBRP_QCK_SUMM_MO
VAS USAGE DAY DRVD	DWD_VAS_USG_DAY
VAS USAGE MONTH AGGR	DWA_VAS_USG_MO
VEHICLE	DWR_VHCL
VENDOR	DWR_VNDR
VENDOR AGREEMENT	DWR_VNDR_AGRMNT
VENDOR APPOINTMENT	DWB_VNDR_APNMNT
VENDOR CLASS	DWL_VNDR_CLASS
VENDOR FACTOR COMPANY ASSIGNMENT	DWR_VNDR_FCTR_CMPNY_ASGN
VENDOR RATING	DWR_VNDR_RTNG
VENDOR RATING TYPE	DWL_VNDR_RTNG_TYP
VENDOR SITE	DWR_VNDR_SITE
VENDOR SITE COURIER ASSIGNMENT	DWR_VNDR_SITE_COURIER_ASGN
VENDOR SITE TYPE	DWL_VNDR_SITE_TYP
VIRTUAL TEAM	DWR_VRTL_TEAM
VISITOR	DWR_VISITOR
VISITOR TYPE	DWL_VISITOR_TYP
VOICE CALL DAY DRVD	DWD_VOI_CALL_DAY
VOICE CALL MONTH AGGR	DWA_VOI_CALL_MO
VOICE MESSAGE SERVICE	DWR_VOI_MSG_SRVC
VOIP CALL EVENT	DWB_VOIP_CALL_EVT
VOLUME BAND	DWL_VOL_BND
VPN LOGICAL DEVICE ROLE	DWR_VPN_LGICL_DVC_RL
VPN SERVICE	DWR_VPN_SRVC
WAN PROTOCOL	DWR_WAN_PROTCL

Table 5–2 (Cont.) Entity Mapping Table: Logical to Physical Mapping: N to Z

Entity	Table or View
WEATHER CONDITION	DWR_WEATHR_CNDTN
WEB INTERACTION NAVIGATION HISTORY	DWB_WEB_INTRACN_NAVGTN_HIST
WEB PAGE	DWR_WEB_PG
WEB PAGE CONTENT	DWR_WEB_PG_CNTNT
WEB PAGE RENDERING TYPE	DWL_WEB_PG_RNDRNG_TYP
WEB PAGE TYPE	DWL_WEB_PG_TYP
WEBSITE	DWR_WBSITE
WEBSITE USER	DWR_WBSITE_USER
WEEK TODATE TRANSFORMATION	DWR_WK_TODATE_TRANS
WEEK TRANSFORMATION	DWR_WK_TRANS
WEEKDAY	DWR_WKDAY
WEIGHTED FAIR QUEUING SERVICE	DWR_WTD_FAIR_QUENG_SRVC
WEIGHTED ROUND ROBIN SCHEDULING SERVICE	DWR_WTD_RND_RBIN_SCHDLNG_SRVC
WIRELESS CALL EVENT	DWB_WRLS_CALL_EVT
WIRELESS CONTENT DOWNLOADING EVENT	DWB_WRLS_CNTNT_DNLDG_EVT
WIRELESS RATING PLAN	DWR_WRLS_RTNG_PLN
WIRELESS RESOURCE	DWR_WRLS_RSCE
WIRELESS ROAMING EVENT	DWB_WRLS_RMNG_EVT
WIRELESS ROAMING EVENT BATCH	DWB_WRLS_RMNG_EVT_BTCH
WIRELESS SERVICE	DWR_WRLS_SRVC
WIRELESS SPECTRUM	DWR_WRLS_SPTRUM
YEAR TRANSFORMATION	DWR_YR_TRANS

6

Oracle Communications Data Model Partitioning

This chapter provides the partitioning strategy for the Oracle Communications Data Model physical base, derived, and aggregate tables.

This chapter includes the following section:

About Oracle Communications Data Model Partitioning, Compression, and Parallelism

All base, derived, and aggregate tables are partitioned, with the (standard) compression and parallel option activated by default. These tables are partitioned due to their nature (size) for performance and scalability and to improve performance. The default partition method used is INTERVAL partitioning, which creates automatically equi-sized partitions as data arrives. For partitioning, usually, a column of data type DATE is used (DAY or MONTH level).

If Exadata is used with the Hybrid Columnar Compression option, the option is leveraged for use with Oracle Communications Data Model.

For more information, see *Oracle Communications Data Model Implementation and Operations Guide*.

Partitioning Strategy for Oracle Communications Data Model

Table 6–1 shows the partitioning strategy for the Oracle Communications Data Model physical base, derived, and aggregate tables.

Table 6–1 Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWA_ACCT_DEBT_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_ACCT_PYMT_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_ACCT_STTSTC_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_ARPU_BASE_CUST_TYP	RANGE	MO_KEY	MONTH	TBS_MV
DWA_BER_FER_ERR_RATIO_MO	RANGE	MO_KEY	MONTH	TBS_MV

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWA_CALL_CNTR_CALL_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CALL_CNTR_CASE_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CELL_STTSTC_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CMISN_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CNT_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_COST_CNTR_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_ACQSTN_SUMM_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_CHRN_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_COST_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_DEBT_COLLCTN_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_EQPMNT_INSTLTN_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_GROSS_ORDRS_QTR	RANGE	MO_KEY	MONTH	TBS_MV
DWA_CUST_ORDR_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_DATA_USG_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_INVC_ADJ_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_INVC_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_INV_POSN_DEPT_DAY	RANGE	MO_KEY	MONTH	TBS_MV
DWA_INV_POSN_SBC_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_IN_PLTFRM_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_LYLTY_PROG_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_MKT_SHARE	RANGE	MO_KEY	MONTH	TBS_MV
DWA_MSC_TRFC_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_NBR_PRT_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_NTWK_AVLBLTY_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_NTWK_TCHPNT_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_PRPD_ALWNCE_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_PRTNR_STLMNT_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_RDMPTN_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_RF_NTWK_CPCTY_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_RVN_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_SBSCBR_STTSTC_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_SL_CMPGN_SUMM_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_SPLMNTR_SRVC_USG_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_STORE_EFFNCY_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_VAS_SBRP_QCK_SUMM_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_VAS_USG_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWA_VOI_CALL_MO	RANGE	MO_KEY	MONTH	TBS_MV
DWB_ACCS_MTHD_PORT_HIST	RANGE	ACT_CTVR_DT	QUARTER	TBS_BASE
DWB_ACCS_MTHD_STAT_HIST	RANGE	EFF_FROM_DT	QUARTER	TBS_BASE
DWB_ACCT_ACCTNG_CYCL_HIST	RANGE	EFF_FROM_DT	QUARTER	TBS_BASE
DWB_ACCT_BAL_IMPC	RANGE	IMPC_DT	MONTH	TBS_BASE

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWB_ACCT_BLLG_OCCRNCE	RANGE	BLLG_DT	QUARTER	TBS_BASE
DWB_ACCT_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_ACCT_CRDT_LMT	RANGE	CRDT_RTNG_DT	MONTH	TBS_BASE
DWB_ACCT_MNGMNT_HIST	RANGE	ASGN_STRT_DT	MONTH	TBS_BASE
DWB_ACCT_PROD_OFR_PRTCPTN_HIST	RANGE	RLTN_STRT_DT	MONTH	TBS_BASE
DWB_ACCT_PYMT	RANGE	PYMT_DT	MONTH	TBS_BASE
DWB_ACCT_PYMT_MTHD_STAT	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_ACCT_STAT_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_ADDR_STAT_HIST	RANGE	EFF_FROM_DT	QUARTER	TBS_BASE
DWB_AGRMNT_APRVL	RANGE	AGRMNT_APRVL_DT	MONTH	TBS_BASE
DWB_AGRMNT_STAT	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_AGRMNT_TERM	HASH	AGRMNT_KEY	N/A	TBS_BASE
DWB_APNMNT_CLNDR	RANGE	DAY_KEY	DAY	TBS_BASE
DWB_BLK_LST_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_BRDBND_USG_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_BSNS_INTRACN	RANGE	STRT_DT	QUARTER	TBS_BASE
DWB_BSNS_INTRACN_HIST	RANGE	TRX_DT	QUARTER	TBS_BASE
DWB_BSNS_UNIT_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CELL_SITE_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CHNL_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CMPGN_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CMPGN_MSG_CRTVE	RANGE	CRTN_DT	MONTH	TBS_BASE
DWB_CNCT_LST_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CNTNT_DLVRY_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_COST_CNTR_BDGT	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_COURIER_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CRCUT_RNTL	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_CRCUT_TRFC	RANGE	EFF_STRT_DT	MONTH	TBS_BASE
DWB_CRNCY_EXCHNG_RATE	RANGE	EXCHNG_RATE_DT	MONTH	TBS_BASE
DWB_CUST_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_CUST_FLD_SRVC_ACTVTY	RANGE	FLD_ACTVTY_STRT_DT	MONTH	TBS_BASE
DWB_CUST_FLD_SRVC_DTL	RANGE	ACTN_STRT_DT	MONTH	TBS_BASE
DWB_CUST_ORDR	RANGE	ORGNL_ORDR_DT	MONTH	TBS_BASE
DWB_CUST_ORDR_LN_ITEM	RANGE	ORGNL_ORDR_DT	MONTH	TBS_BASE
DWB_CUST_ORDR_LN_ITEM_ST_ASGN	RANGE	ORDR_LN_ITEM_STATE_BEGIN_DT	MONTH	TBS_BASE
DWB_CUST_ORDR_PYMT	RANGE	PYMT_DT	MONTH	TBS_BASE
DWB_CUST_ORDR_STATE_ASGN	RANGE	ORDR_STATE_BEGIN_DT	MONTH	TBS_BASE
DWB_DATA_SRVC_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_DISC_LI	RANGE	DAY_KEY	MONTH	TBS_BASE

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWB_EMP_ACT_LBR_HRLY	RANGE	DAY_KEY	DAY	TBS_BASE
DWB_EMP_ACT_LBR_SALARIED	RANGE	DAY_KEY	DAY	TBS_BASE
DWB_EMP_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_EMP_EXP_RPT	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EMP_TRNG_REC	RANGE	TRNG_STRT_DT	MONTH	TBS_BASE
DWB_EQPMNT_CNTR_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_ERRD_MDTD_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_ERRD_RAW_WRLS_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_ERRD_RTD_WRLS_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_EVT	RANGE	STRT_DT	DAY	TBS_BASE
DWB_EVT_ACCS_MTHD_ACTVTY	RANGE	STRT_DT	DAY	TBS_BASE
DWB_EVT_ACCT	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_AGRMNT	RANGE	STRT_DT	DAY	TBS_BASE
DWB_EVT_ASGN	RANGE	EFF_FROM_DT	DAY	TBS_BASE
DWB_EVT_CMPST_PROD_SPEC	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_EVT_CRCUT_RNTL	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_EMP_PYRL	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_EQPMNT_INSTNC	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_FINCL	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_GEO	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_LYLTY_PROG	RANGE	TRX_DT	MONTH	TBS_BASE
DWB_EVT_PROD_SBRP_WRLS	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_PRPD_MBL	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_PRTY_ASGN	RANGE	EFF_DT	DAY	TBS_BASE
DWB_EVT_PRTY_INTRACN	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_PRTY_PRFL	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_SBRP_CHNG	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_SIM_CARD	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_EVT_STAT	RANGE	EFF_FROM_DT	DAY	TBS_BASE
DWB_EXP_RPT_PRTY_ASGN	RANGE	EFF_DT	DAY	TBS_BASE
DWB_FIXED_LN_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_GPRS_USG_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_IDD_CALL_EVT	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE
DWB_INTRACN_QUES_RESPN	RANGE	RESPN_DT	QUARTER	TBS_BASE
DWB_INTRNT_ACCS_EVT	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE
DWB_INVC	RANGE	BLLG_DT	MONTH	TBS_BASE
DWB_INVC_ADJ	RANGE	STRT_DT	MONTH	TBS_BASE
DWB_INVC_DISC	RANGE	BLLG_DT	MONTH	TBS_BASE
DWB_INVC_ITEM	RANGE	BLLG_DT	MONTH	TBS_BASE
DWB_INVC_ITEM_DTL	RANGE	BLLG_DT	MONTH	TBS_BASE

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWB_INVC_PYMT_ASGN	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_INVC_PYMT_TERM	RANGE	BLLG_DT	MONTH	TBS_BASE
DWB_INVC_STAT_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_INV_ADJ_DOC_LI	RANGE	INV_ADJ_DOC_DT	MONTH	TBS_BASE
DWB_INV_CNTRL_DOC	RANGE	INV_CNTRL_DOC_DT	MONTH	TBS_BASE
DWB_INV_CNTRL_DOC_LI	RANGE	INV_CNTRL_DOC_DT	MONTH	TBS_BASE
DWB_INV_ITEM_STATE	RANGE	EFF_FROM_DT	DAY	TBS_BASE
DWB_ISP_USG_EVT	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE
DWB_MDTD_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_MEDIA_OBJ_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_MMS_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_NP_RQST_HDR	RANGE	APLCTN_DT	MONTH	TBS_BASE
DWB_NP_RQST_LN_ITEM	RANGE	NP_STEP_STRT_DT	MONTH	TBS_BASE
DWB_NP_RQST_LN_ITEM_STATE_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_NP_RQST_STATE_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_PHY_CNT_DOC	RANGE	PHY_CNT_BEGIN_DT	YEAR	TBS_BASE
DWB_PHY_CNT_DOC_LI	RANGE	PHY_CNT_BEGIN_DT	YEAR	TBS_BASE
DWB_PRCS_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_PRICE_EVT	RANGE	STRT_DT	DAY	TBS_BASE
DWB_PRMTN_CLSTR_USG	RANGE	USG_DT	HALF YEAR	TBS_BASE
DWB_PRMTN_CNCT_LST_UTLZTN	RANGE	USG_DT	HALF YEAR	TBS_BASE
DWB_PRMTN_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_PRMTN_MGMT_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_PRMTN_TERM_VAL	RANGE	TERM_PRD_STRT	MONTH	TBS_BASE
DWB_PROD_OFR_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_PROD_OFR_MGMT	RANGE	MNG_ACTN_DT	MONTH	TBS_BASE
DWB_PROD_SBRP_STAT_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_PROD_SPEC_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_PROD_SPEC_MGMT_HIST	RANGE	EFF_FROM_DT	QUARTER	TBS_BASE
DWB_PROD_SPEC_STAT_HIST	RANGE	EFF_FROM_DT	QUARTER	TBS_BASE
DWB_PRPD_RCHRG	RANGE	PYMT_DT	MONTH	TBS_BASE
DWB_PRTNR_PYMT	RANGE	PYMT_DT	MONTH	TBS_BASE
DWB_PRTY_AM_PROD_OFR_ASGN_HIST	RANGE	ASGN_BEGIN_DT	MONTH	TBS_BASE
DWB_PRTY_AM_PROD_OFR_ASGN_STAT	RANGE	ASGN_BEGIN_DT	MONTH	TBS_BASE
DWB_PRTY_COST_ASGN	RANGE	ASGN_DT	MONTH	TBS_BASE
DWB_PRTY_ORDR_ASGN	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_PRTY_PRMTN_RESPN	RANGE	RESPN_DT	MONTH	TBS_BASE
DWB_PRTY_STAT_HIST	RANGE	EFF_FROM_DT	MONTH	TBS_BASE
DWB_PTV_FULL_CHNL_ACTVTN	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE
DWB_PTV_QPI_SRVC_EVT	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE
DWB_PTV_USG_EVT	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWB_RAW_MMS_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_RSCE_COST	RANGE	INCURR_DT	MONTH	TBS_BASE
DWB_RSCE_HIST	RANGE	EFF_BEGIN_DT	MONTH	TBS_BASE
DWB_RSCE_ORDR	RANGE	STRT_DT	QUARTER	TBS_BASE
DWB_RTD_UDR_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_RTL_SL_RTRN_LI	RANGE	DAY_KEY	MONTH	TBS_BASE
DWB_RTL_TNDR_LI	RANGE	DAY_KEY	MONTH	TBS_BASE
DWB_RTL_TRX	RANGE	DAY_KEY	MONTH	TBS_BASE
DWB_SBRP_TERM_VAL	RANGE	TERM_PRD_STRT_DT	MONTH	TBS_BASE
DWB_SL_CMISN_DTL	RANGE	PYMT_DT	MONTH	TBS_BASE
DWB_SL_CMISN_PYRL	RANGE	PAY_DT	MONTH	TBS_BASE
DWB_SMS_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_SRVC_LVL_AGRMNT_VILTN	RANGE	INTRACN_THRD_STRT_DT	MONTH	TBS_BASE
DWB_SRVC_ORDR	RANGE	STRT_DT	QUARTER	TBS_BASE
DWB_SRVC_RQST	RANGE	INTRACN_THRD_STRT_DT	MONTH	TBS_BASE
DWB_TAP_IN_WRLS_RMNG_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_TAP_OUT_WRLS_RMNG_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_TNDR_CNTRL_TRX	RANGE	DAY_KEY	MONTH	TBS_BASE
DWB_TRBLE_TCKT	RANGE	STRT_DT	QUARTER	TBS_BASE
DWB_UDR_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_UDR_EVT_ASGN	RANGE	FROM_EVT_BEGIN_DT	DAY	TBS_BASE
DWB_UMS_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_UNIT_ALWNCE	RANGE	BAL_DT	MONTH	TBS_BASE
DWB_VNDR_APNMNT	RANGE	VNDR_APNMNT_DT	MONTH	TBS_BASE
DWB_VOIP_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_WRLS_CALL_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWB_WRLS_CNTNT_DNLDG_EVT	RANGE	EVT_BEGIN_DT	MONTH	TBS_BASE
DWB_WRLS_RMNG_EVT	RANGE	EVT_BEGIN_DT	DAY	TBS_BASE
DWD_ACCT_BAL_MO	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_ACCT_DEBT_MO	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_ACCT_PYMT_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_ACCT_PYMT_MTHD_STAT_HIST	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_AGRMNT	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_AGRMNT_CHNG	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_AGRMNT_RVN_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_BER_FER_ERR_RATIO_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_CANBLZTN_DTL_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_CELL_STTSTC_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_CMISN	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_CMPGN_HIST_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWD_CNTCT_CNTR_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_CNT_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_COST_CNTR	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_CUST_COST	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_CUST_DNA	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_CUST_EQPMNT_INSTLTN_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_CUST_ORDR_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_CUST_ORDR_LN_ITEM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_CUST_RFMP_SCR	RANGE	MO_KEY	DAY	TBS_DERIVED
DWD_CUST_SKU_SL_RETRN_DAY	RANGE	DAY_KEY	MONTH	TBS_DERIVED
DWD_DATA_USG_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_GIVE_AWAY_ITEM_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_INVC_AGNG_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INVC_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INV_ADJ_ITEM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INV_POSN_ITEM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INV_RCPT_ITEM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INV_UNAVL_ITEM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INV_VNDR_CMPLNC_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_INV_XFER_ITEM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_IN_PLTFRM_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_LYLTY_MBR_PNT_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_MKT_SHARE	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_MSC_TRFC_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_NBR_PRT_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_NTWK_AVLBLTY_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_NTWK_TCHPNT	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_ORG_BSNS_UNT_HRS_DAY	RANGE	DAY_KEY	MONTH	TBS_DERIVED
DWD_POS_TNDR_FLOW	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_PRCS_INVC_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_PRPD_ACCT_STTSTC_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_PRPD_ALWNCE_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_PRTNR_STLMNT	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_RF_NTWK_CPCTY_DAY	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_RTL_SL_RETRN_ITEM_DAY	RANGE	DAY_KEY	MONTH	TBS_DERIVED
DWD_RVN_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_SL_RPRSTV_STTSTC	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_SPLMNTR_SRVC_USG	RANGE	MO_KEY	MONTH	TBS_DERIVED
DWD_SRVC_PRBLM_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_STORE_EFFNCY_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_VAS_SBRP_QCK_SUMM	RANGE	MO_KEY	MONTH	TBS_DERIVED

Table 6–1 (Cont.) Physical Data Model Partitioning

Physical Table Name	Partitioning Type	Partition Key Column	Partition Level	Default Tablespace Name
DWD_VAS_USG_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWD_VOI_CALL_DAY	RANGE	DAY_KEY	DAY	TBS_DERIVED
DWR_ACCS_MTHD	HASH	ACCS_MTHD_KEY	N/A	TBS_REFERENCE
DWR_ACCT	HASH	ACCT_KEY	N/A	TBS_REFERENCE
DWR_AGRMNT	HASH	AGRMNT_KEY	N/A	TBS_REFERENCE
DWR_CUST	HASH	CUST_KEY	N/A	TBS_REFERENCE
DWR_ORG_BSNS_UNIT	HASH	ORG_BSNS_UNIT_KEY	N/A	TBS_REFERENCE

Part II

Intra-ETL, OLAP, Data Mining, and Utility Scripts

This part provides information on Oracle Communications Data Model Intra-ETL Mapping, OLAP, Data Mining, and Utility Scripts.

Part II contains the following chapters:

7

Oracle Communications Data Model Intra-ETL

This chapter includes the following sections:

About Oracle Communications Data Model Intra-ETL

In Oracle Communications Data Model, reference and lookup tables store master, reference, and dimensional data; and the base, derived, and aggregate tables store transaction and fact data at different granularities. The base tables store the transaction data at the lowest level of granularity, while the derived and aggregate tables store consolidated and summary transaction data.

Two types of Extract, Transform, and Load (ETL) operations populate the tables with data. The source-ETL operations populate the reference, lookup, and base tables with data from the source On-Line Transaction Processing (OTLP) applications. Additional Intra-ETL operations populate the derived and aggregate tables with the data in the base, reference, and lookup tables. While the source ETL operations are not a part of Oracle Communications Data Model, the Intra-ETL operations are.

There are two categories of Intra-ETL operations (scripts):

- Derived Population: A database package containing scripts that populate the derived tables based on the content of the base, reference, and lookup tables.
- Aggregate Population: A database package containing scripts to refresh the Oracle Communications Data Model aggregate tables, mostly Materialized Views, based on the content of the derived tables and some reference tables.

Derived tables are implemented using Oracle tables. Some of the Aggregate tables Oracle tables and others are implemented using Materialized Views.

Note: Changes to intra-ETL cannot be supported. But it is expected that if the business needs require a change in the business logic of the intra-ETLs some customer adaptations could be necessary even if they are not be supported.

Intra-ETL PL/SQL Packages Business Rules and Source Tables

Shows the PL/SQL mapping packages to populate the derived tables. The naming convention by default is the physical name of the target table plus,"_PKG".

Table 7–1 PL/SQL Mapping Packages

Package Name
DWD_ACCT_BAL_MO_PKG Package
DWD_ACCT_DEBT_MO_PKG Package
DWD_ACCT_FRST_ACTVTY_PKG Package
DWD_ACCT_LAST_ACTVTY_PKG Package
DWD_ACCT_PMT_MTD_STAT_HST_PKG Package
DWD_ACCT_PYMT_DAY_PKG Package
DWD_AGRMNT_PKG Package
DWD_AGRMNT_CHG_PKG Package
DWD_AGRMNT_RVN_DAY Package
DWD_BER_FER_ERR_RATIO_DAY_PKG Package
DWD_CANBLZTN_DTL_DAY_PKG Package
DWD_CELL_STTSTC_DAY_PKG Package
DWD_CMPGN_HIST_DAY_PKG Package
DWD_CNT_DAY_PKG Package
DWD_CNTCT_CNTR_DAY_PKG Package
DWD_CUST_DNA_PKG Package
DWD_CUST_EQPMNT_INSTLTN_DAY_PKG Package
DWD_CUST_ORDR_DAY_PKG Package
DWD_CUST_ORDR_LN_ITEM_DAY_PKG Package
DWD_CUST_SKU_SL_RETRN_DAY_PKG Package
DWD_DATA_USG_DAY_PKG Package
DWD_GIVE_AWAY_ITEM_DAY_PKG Package
DWD_INV_ADJ_ITEM_DAY_PKG Package
DWD_INV_POSN_ITEM_DAY_PKG Package
DWD_INV_RCPT_ITEM_DAY_PKG Package
DWD_INV_UNAVL_ITEM_DAY_PKG Package
DWD_INV_XFER_ITEM_DAY_PKG Package
DWD_INVC_PKG Package
DWD_INVC_AGNG_DAY_PKG Package
DWD_NBR_PRT_DAY_PKG Package
DWD_POS_TNDR_FLOW_PKG Package
DWD_PRCS_INVC_DAY_PKG Package
DWD_PRPD_ACCT_STTSTC_DAY_PKG Package
DWD_RTL_SL_RETRN_ITEM_DAY_PKG Package
DWD_RVN_DAY_PKG Package
DWD_SPLMNTR_SRVC_USG_PKG Package
DWD_SRVC_PRBLM_DAY_PKG Package

Table 7–1 (Cont.) PL/SQL Mapping Packages

Package Name
DWD_STORE_EFFNCY_DAY_PKG Package
DWD_VAS_SBRP_QCK_SUMM_PKG Package
DWD_VAS_USG_DAY_PKG Package
DWD_VOI_CALL_DAY_PKG Package

DWD_ACCT_BAL_MO_PKG Package

Populate target table DWD_ACCT_BAL_MO. For more information, see ACCOUNT BALANCE MONTH DRVD.

Table 7–2 DWD_ACCT_BAL_MO Package Source Tables

Source Table Name
DWB_ACCT_BAL
DWB_ACCT_BAL_IMPC
DWB_UNIT_ALLWNC
DWL_ACCT_BAL_TYP
DWR_ACCT
DWR_PROD_OFR

Table 7–3 DWD_ACCT_BAL_MO Business Rules

Rule ID	Description	Comments
ACCT_BAL0	Time window: All columns shall represent the status at the end of the period considered (End of the last possible day already passed of current month in which the Intra-ETL is running).	If you run the Intra-ETL on November 15th. It shall take the sum of all bucket amounts with the status of the 14th End of day (and store it in month November) overwriting whatever was already there from the previous run in month November.
ACCT_BAL1	The "Balance Amount" is defined as what will appear directly in Bucket_amount at the time considered by ACCT_BAL0 rule. It assumes that all snapshots of all balances for any buckets of a given account occur at the same time (within the same second).	SUM(DWB_ACCT_BAL.BAL_AMT) where BAL_DT =MAX(BAL_DT) for this account, account balance type, product offering, product spec and bucket code (if defined)
ACCT_BAL2	MAX_BAL_DT - Maximum date possible at which all balances of this type (of any buckets) from this account will expire.	max(DWB_ACCT_BAL.BAL_DT)
ACCT_BAL3	ACCOUNT BALANCE is filled such that EITHER every bucket is defined and filled OR the BUCKET CODE is always undefined (for a given account). It is mutually exclusive for a given account.	This means in DWB_ACCT_BAL, for a given account and for a given account balance type, either BUCKET_CD = '-5000', OR BUCKET_CD is always defined (not unknown). See base data assumptions.
ACCT_BAL4	Whenever a balance goes to 0 or expires, this balance (Status) is still taken into account and stored in Oracle Communications Data Model.	See base data assumptions.
ACCT_BAL5	Product Offering Code and Product Specification Code have to be present in the base table (ACCOUNT BALANCE). If not, the default value shall be used. (reporting purpose only)	Default Value is "-5000".
ACCT_BAL6 Obsolete	ACCT_BAL_TYP_CD - Types of Account Balance. No restriction on it.	Restrictions could be added as customization.

Table 7–3 (Cont.) DWD_ACCT_BAL_MO Business Rules

Rule ID	Description	Comments
ACCT_BAL7	Account Balance Impact whose impact date is greater (AFTER) than the latest ACCOUNT BALANCE snapshot (balance date) shall be ignored in the current run but shall be taken into account in the following run. It is therefore expected from an ETL perspective to make sure that account balance impact and account balance are synchronized.	
ACCT_BAL8	Due Amount is meant in any direction (from the CSP to the customer or vice versa). Defined as the maximum between Balance amount and Minimum required Amount. It is not necessarily related to a specific invoice.	
ACCT_BAL9	The base table Unit Allowance shall contain the Effective Prepaid Allowance (PPA) associated with a given offering and product specification, adding all eventual bonus and promotion. In case Product Spec and Product Offer Key are undefined in ACCOUNT BALANCE, one shall sum ALL PPA of any product offering and specification whose subscription has been active at least one day within the period concerned.	
ACCT_BAL10	PPA Category Code associated with the derived will be the biggest (in alphanumeric sense) of all available.	
ACCT_BAL11	Balance Begin Date is the minimum balance begin date of any valid (active) balances of this type for this account within the time period.	
ACCT_BAL12	Disputed Amount is only considered if it is related to an Balance Impact (with reason like '%DSPT%'). It is not checking into INVOICE ADJUSTMENT for performance reason.	
ACCT_BAL13	There will be no restriction in time (except that it is within the month considered) for the balance impact. Hence, any balance impact of the month shall be considered, independently of the fact that it has already impacted the balance snapshot or not. This assumption is important to be sure that no impacts are lost between the last balance date available and the end of the month.	It also means that the content of the table for a given month will be overwritten every time it runs within the month.

Table 7–4 DWD_ACCT_BAL_MO Lookup Values

Table	Row	Code	Meaning
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'ADJ'	An adjustment takes place
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'PYMT'	A payment is the source of the impact
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'RCHRG	A Recharge is the source of the impact (subtype of payment).
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'TRNSFR IN'	Transfer Incoming
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'TRNSFR OUT'	Transfer Outgoing
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'RFND'	Refund
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'WRTOFF	Write-Off (specific type of adjustment).
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'%DSPT%'	Dispute - reduce the account balance normally. Any reason with "DSPT" in it will be taken into account.
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'USG'	Calls or service usage triggers the impact
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'PRMTN'	A Promotion is the reason for this Impact (usually with loyalty points)

Table 7–4 (Cont.) DWD_ACCT_BAL_MO Lookup Values

Table	Row	Code	Meaning
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'NBR LN'	The Number of lines is the trigger for this Impact (usually with loyalty points)
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'SBRP AGE'	The Age On Net of this subscription or customer is the trigger for this Impact (usually with loyalty points)
DWB_ACCT_BAL_IMPC	ACCT_BAL_IMPC_RSN_CD	'DRCT DEBIT'	The fact to move to Direct Debit is the trigger for this Impact (usually with loyalty points)
DWB_ACCT_BAL_TYP	ACCT_BAL_TYP_CD	'%LYTY%	A balance of type Loyalty[1]
DWB_ACCT_BAL_TYP	ACCT_BAL_TYP_CD	'%LYTY BONUS%	A balance of type Bonus associated with Loyalty balance
DWB_ACCT_BAL_TYP	ACCT_BAL_TYP_CD	'%BONUS%	Any balance of type Bonus

[1] Loyalty balance should normally be stored in the specific subject area, to allow the LOYALTY derived to work. Nothing prevents storing loyalty account balance type in ACCOUNT BALANCE when the Loyalty Account and the Account are the same. But it will not be taken into account by the other derived.

DWD_ACCT_DEBT_MO_PKG Package

Populate target table DWD_ACCT_DEBT_MO. For more information, see ACCOUNT DEBT MONTH DERIVED.

Table 7–5 DWD_ACCT_DEBT_MO Package Source Tables

Source Table Name
DWB_ACCT_BAL_IMPC
DWB_ACCT_DEBT
DWB_ACCT_PYMNT
DWB_COST
DWB_EVT_PRTY_INTRACN
DWB_INVC
DWB_INVC_ADJ
DWB_INVC_PYMT_ASGN
DWD_STG_ACCT_DEBT_DAY_DRVD
DWD_ACCT_DEBT_DAY_DRVD
DWL_DEBT_AGNG_BND
DWR_ACCT
DWR_ACCT_DEBT
DWR_ADDR_LOC
DWR_COLLCTN_AGNCY
DWR_CUST
DWR_DAY
DWR_GEO_CNTY
DWR_ORG_BUS_UNIT

Table 7–6 DWD_ACCT_DEBT_MO Business Rules

Rule ID	Description	Comment
DEBTMO1	The debt is only considered whenever it is present in ACCOUNT DEBT and debt is set within any day in the current month.	There must be a row in DWB_ACCT_DEBT with Month (date considered) between MONTH(DEBT_STRT_DT) and MONTH(DEBT_END:DT) - boarder included.
DEBTMO2	Even if the account has multiple contracts and invoices with different due-dates, it is considered in debt as long as at least one of these invoices is not settled. It is therefore independent of the total amount due, or the number of in-debt invoices.	As a consequence, a given account can only have one debt - not several.
DEBTMO3	Any Payment of any type (standard, transfer…) made during a Debt period is considered as payment to the debt until the debt is ended.	
DEBTMO4	Debt Age is calculated based on the day the 1st time the customer was in debt - whatever the amount, whenever it was. Example: Assuming 2 invoices over 2 months were sent and the customer finally paid the 1st one but the 2nd one is still due (and the debt flag was not set back either because it was forgotten or because the 2nd bill is also over-due), the debt age will be still considered to be with respect to the due date of 1st invoice!	The reason of this limitation is due to the fact that the DUE DATE is not part of the Account Debt (it is also not the goal nor would it make sense because the current balance might cover multiple bills as shown in the example). A customization could be added a OLDEST DUE DATE or DEBT_START_DATE column which would need to be updated when a payment occurs. This could be however complex from an ETL perspective (source to Oracle Communications Data Model).
DEBTMO5	Balance Adjustment taken into account around debt are of 3 types by default: 91% = Penalty = Fee for late payment. 3% = Waiving = Penalty Fee reduction or closing dispute (and only these). 4%= Write-off = Amount that the CSP agrees to write-off. Write off should only apply to churned or suspended customers you cannot reach anymore. It does not cancel the debt as such. It only considers you will never get the debt back, so you need to write it off from your profit. It is an accounting process. These are stored as Adjustment Reason Code in their respective views (ACCT BAL ADJ and ACCT DEBT WRT OFF). They must be done by an employee during a business interaction (Party thread interaction).	See default Lookup values tables. The Employee information that did the adjustment is not stored in the target table as it is not its goal. The employee used is the target table is the one showing up in the ACCOUNT DEBT table.
DEBTMO6	Account Status Code stored is by default the ACCOUNT STATUS TYPE CODE of the ACCOUNT Table. If it is null, STATUS CODE of the same table is used.	nvl(DWR_ACCT.ACCT_STAT_TYP_CD, DWR_ACCT.STAT_CD)
DEBTMO7	Credit Category: The Credit category stored is by default the one currently associated to the Account in ACCOUNT table. If it is not defined, one shall take the ones in ACCOUNT CREDIT LIMIT associated to this account. Since however, the credit limit is per subscription, the highest internal code will be taken, which is assumed to be the latest one. This is an approximation which could be wrong.	Concretely: nvl(DWR_ACCT.CRDT_CTGRY_KEY, max(DWB_ACCT_CRDT_LMT. CRDT_ CTGRY_KEY)

Table 7–6 (Cont.) DWD_ACCT_DEBT_MO Business Rules

Rule ID	Description	Comment
DEBTMO8	A debt agreement is a formal or informal agreement with the customer or account in debt to pay the bill within a certain time. It might be associated to the standard agreement (contract) as AGREEMENT TERM, whose type could be 'Max Debt Age' or any Debt related term. The status of this agreement Term should be valid. It may also be associated with a PAYMENT PLAN (see SID 12.5) but it is not considered here. For simplification and performance, Oracle Communications Data Model assumes that a DEBT agreement is in place if the field EXTENDED DUE DATE of Invoice is not null. A successful debt agreement is defined with a full payment received with extended due date not null while an unsuccessful debt agreement has the full payment received indicator not set.	Concretely: For current agreement the invoice status is open and nvl(ext_due_Dt, to_date('1970','yyyy')) >Date Considered For all agreement success
DEBTMO9	The organization business unit defined in ACCOUNT DEBT MONTH should be the one associated with the debt. If it is not defined, one shall use the one currently associated with the account (usually equal to the one through which the account was created). Current default is the one associated with the Account.	Be aware that currently, only the one associated with the account is used.
DEBTMO10	The unit of measure associated with the debt is in fact the currency of the debt amount.	
DEBTMO11	The number of invoice in debt (see column INVC_IN_DEBT_CNT) is read by default in ACCOUNT DEBT. Hence, it should be calculated by the ETL that populates it. Nevertheless, if this information is not defined, the definition of invoice in debt is the number of invoices whose Full payment Received Indicator is not set and whose DUE DATE is passed. There may be multiple invoices from the same "billing unit" (that is, a same agreement with a given billing cycle over several months, hence including several unpaid bills) and from different billing units (different agreement, with different subscriptions and access numbers and possibly different billing cycles).	
DEBTMO12	Disputed Amount is the sum of all invoices of the account that are in dispute, that is, whose status is open and whose dispute amount is not null. It is assumed that each invoice can be independently under dispute and that the dispute amount of the last invoice does NOT contain any amount of previous dispute (and still open) and the billing date of the invoice must be up to 90 days before the debt starting date.	SUM(DISPTE_AMT) where invc_stat_cd not like '5%' bllng_dt Must be >= debt-strt_dt-90 days
DEBTMO13	The current invoice balance amount and current due date is based on the biggest billing date of any open invoices associated with this account. If several invoices are billed the same day, their amount will be summed. If a given invoice comes later than all others, only this invoice will be counted!	
DEBTMO14	The employee associated is either the latest one directly involved in the debt collection (employee code) or the call center agent (call center agent). It is therefore assumed that employee code and call center agent code correspond if they are the same party.	
DEBTMO15	The debt escalation level corresponds to the Priority code type of a given interaction. If the account debt has no debt escalation level code associated, the priority code type of the latest interaction around debt collection will be taken (Code 6% -see lookup).	
DEBTMO16	Invoice debt age is based on DUE DATE, not on extended due date.	

Table 7–6 (Cont.) DWD_ACCT_DEBT_MO Business Rules

Rule ID	Description	Comment
DEBTMO17	The definition of an "invoice in debt" is the latest invoice which has been sent to the customer, is closed from a billing cycle perspective but open from the balance point of view, has not been fully paid on due time.	Hence, only count one invoice in debt per "bill or billing unit" (group of related invoices created or to be created under a certain agreement for a certain service with a determined billing cycle). Only the latest completed billing cycle shall be considered, whether the due amount is carried forward or not into the next invoice.
DEBTMO18	It is assumed that all information in ACCOUNT DEBT is correctly stored as a cumulative amount in each AMT columns until all money is recovered, adjusted or written-off, including the day it closes.	See also DEBTMO19
DEBTMO19	In the target table, Organization Business Unit should be fed with the part of the CSP Organization that deals with the DEBT of this account. COLLECTION AGENCY should be fed with the external collection agency engaged to collect the debt if any. If COLLECTION TYPE is filled with "External", COLLECTION AGENCY is expected to be filled (and not being "-5000" or "unknown") and reciprocally.	
DEBTMO20	Adjusted amount are only those associated with any invoice and whose adjustment date is greater or equal the Debt Start date. If this information is null, ACCOUNT BALANCE IMPACT will be checked with similar conditions.	
DEBTMO21	The Total work duration of a debt is defined as the number of days between the debt assignment to someone and the date considered (or the end of debt). if HOLD_DT is null, nvl(ACCMPLSH_DT, DayConsidered) -ASGN_DT if HOLD_DT not null but RESUME_DT is null, HOLD_DT-ASGN_DT if HOLD_DT & RESUME_DT not null, nvl(ACCMPLSH_DT, DayConsidered) -ASGN_DT-(RESUME_DT-HOLD_DT)	

Table 7–7 DWD_ACCT_DEBT_MO Lookup Values

Table	Row	Code	Description
DWL_ACCT_ADJ_RSN	ACCT_ADJ_RSN_CD	'PNLTY', 'WVNG', 'RFND', 'DSPT', 'WRTOFF'	Penalty, Waiving, Refund, Dispute, Write-Off Distribution of details of adjustment when not already present.
DWB_INVC	FULL_PAY_RCVD_IND	'Y', 'N' or NULL	Fully paid, Not fully paid Only to count the number of invoices still to be paid (or in-debts)
DWR_AGRMNT	STAT_CD	'c', 'f' 'p'	'Closed' (not active anymore) 'future activation', 'pending activation'. Any other mark would mean active. Optionally needed.
DWD_ACCT_DEBT_DAY	COLLCTN_TYP	'Internal', 'External'	Whether the Collection is done internally (default) or given to a collection agency ('External').

DWD_ACCT_FRST_ACTVTY_PKG Package

Populate target table DWD_ACCT_FRST_ACTVTY. For more information, see ACCOUNT FIRST ACTIVITY DERIVED.

Table 7–8 DWD_ACCT_FRST_ACTVTY Package Source Tables

Source Table Name
DWB_ACCT_PYMT
DWB_UDR_EVT
DWB_UDR_EVT
DWB_DATA_SRVC_EVT
DWB_WRLS_CALL_EVT
DWR_ACCT
DWB_FIXED_LN_CALL_EVT
DWB_SMS_EVT

Table 7–9 DWD_ACCT_FRST_ACTVTY Business Rules

Rule ID	Description	Comment
ACCT_1ST_ACTVTY_1	For every account existing at any point in type, this table must be filled. There must be at least 1 row per account even if subscriptions and offerings are not known.	
ACCT_1ST_ACTVTY_2	Information about Activity is about USAGE. Any usage of any type must be taken into account.	
ACCT_1ST_ACTVTY_3	One needs to distinguish between "Terminating" (or Incoming) usage from "Originating" (or Outgoing) Usage through the Call direction.	CALL_DRCTN = 'T' for terminating or 'O' for Originating. "-5000" or Unknown is not acceptable.
ACCT_1ST_ACTVTY_4	The Payment considered is any payment AFTER the first activation. Hence, for Prepaid, it is the 1st recharge. For postpaid, it is the 1st payment after invoice has been issued.	
ACCT_1ST_ACTVTY_5	Links to Product Specification and Product Offering is done through Subscription.	
ACCT_1ST_ACTVTY_6	In case of multiple access methods, the access Method considered shall be the Main one associated with the offer.	
ACCT_1ST_ACTVTY_7	Once all columns have been filled, a given row will not be updated anymore. Update shall run/be tried as long as one column is empty (null).	
ACCT_1ST_ACTVTY_8	It is suggested to leverage the DERIVED layer of VOICE, VAS and DATA to get the 1st account activity instead of running at BASE layer.	This assumes however that these DERIVED have been filled upfront!
ACCT_1ST_ACTVTY_9	VAS usage assumes it is always end-user originating call.	Set call direction Code to be 'O' by default
ACCT_1ST_ACTVTY_10	Day level is enough as approximation. We are not interested to know the exact time.	

Table 7–10 DWD_FRST_ACTVTY Lookup Values

Table	Row	Code	Description
DWL_CALL_DRCTN	CALL_DRCTN_CD	**T,**	Terminating,
	INTRACN_DRCTN_CD	**O,**	Originating
		U	Unknown (default)

DWD_ACCT_LAST_ACTVTY_PKG Package

Populate target table DWD_ACCT_LAST_ACTVTY. For more information, see ACCOUNT LAST ACTIVITY DERIVED.

Table 7–11 DWD_ACCT_LAST_ACTVTY Package Source Tables

Source Table Name
DWB_ACCT_PYMT
DWB_UDR_EVT
DWB_FIXED_LN_CALL_EVT
DWB_SMS_EVT
DWB_DATA_SRVC_EVT
DWB_WRLS_CALL_EVT
DWR_ACCS_MTHD
DWR_ACCT

Table 7–12 DWD_ACCT_LAST_ACTVTY Business Rules

Rule ID	Description	Comment
ACCT_LAST_ ACTVTY_1 See also: ACCT_1ST_ ACTVTY_1	For every account existing at any point in type, this table must be filled. There must be at least 1 row per account even if subscriptions and offerings are not known. With Payment (of any type like standard payment or recharge or refund or transfer), one shall associate the unknown product offering and unknown product specification. It shall be stored independently from the usage activity itself.	In clear, it means that, per account, there must be 1 row for 1st payment information, and 1 row per product Offering / product Spec combination associated with 1st usage.
ACCT_LAST_ ACTVTY_2	Information about Activity is about USAGE. Any usage of any type must be taken into account.	
ACCT_LAST_ ACTVTY_3	One needs to distinguish between "Terminating" (or Incoming) usage from "Originating" (or Outgoing) Usage through the Call direction.	CALL_DRCTN = 'T' for terminating or 'O' for Originating. "-5000" or Unknown is not acceptable.
ACCT_LAST_ ACTVTY_4	The Payment considered is any payment AFTER the first activation. Hence, for Prepaid, it is the last recharge. For postpaid, it is the last payment after invoice has been issued.	
ACCT_LAST_ ACTVTY_5	Links to Product Specification and Product Offering is done through CDR information a priori or Subscription otherwise. This does not apply to payment.	
ACCT_LAST_ ACTVTY_6	In case of multiple access methods, the access Method considered shall be the Main one associated with the offer.	Currently, every used access method will be considered, if they are defined in the CDRs with a product offering and a product specification.
ACCT_LAST_ ACTVTY_7	For a given account, all columns shall be updated each run until the account is fully deactivated or terminated within the period considered by the intra-etl. The accounts to consider are any not terminated. Basically, this means one runs over any activity (usage) of any account, whether declared or not, and insert or update the corresponding row in the derived table.	That is when account stat_cd like '4%' or '5%' before L_ START_TIME and never active in-between.
ACCT_LAST_ ACTVTY_8		
ACCT_LAST_ ACTVTY_9	VAS usage assumes it is always end-user originating call.	Set call direction Code to be 'O' by default
ACCT_LAST_ ACTVTY_10	Day level is enough as approximation.	
ACCT_LAST_ ACTVTY_11	This rule is obsolete.	

Table 7–13 DWD_ACCT_LAST_ACTVTY Lookup Values

Table	Row	Code	Description
DWL_CALL_DRCTN	CALL_DRCTN_CD	**T,**	Terminating,
	INTRACN_DRCTN_CD	**O,**	Originating
		U	Unknown (default)

DWD_ACCT_PMT_MTD_STAT_HST_PKG Package

Populate target table DWD_ACCT_PYMT_MTHD_STAT_HIST. For more information, see ACCOUNT PAYMENT METHOD STATUS HIST DRVD.

Table 7–14 DWD_ACCT_PYMT_MTHD_STAT_HIST Source Tables

Source Table Name
DWB_ACCT_CRDT_LMT
DWB_ACCT_PYMT_MTHD_STAT
DWL_AGE_ON_NET_BND
DWR_ACCT
DWR_ACCT_PYMT_MTHD
DWR_BSNS_MO
DWR_CUST

DWD_ACCT_PYMT_DAY_PKG Package

Populate target table DWD_ACCT_PYMT_DAY. For more information, see ACCOUNT PAYMENT DAY DRVD.

Table 7–15 DWD_ACCT_PYMT_DAY Package Source Tables

Source Table Name
DWB_ACCT_PYMT
DWB_INVC
DWB_INVC_PYMT_ASGN
DWR_ACCT
DWR_ACCT_PYMT_MTHD
DWV_AGRMNT_ACCT_SBRP_PROD

Table 7–16 DWD_ACCT_PYMT_DAY Lookup Values

Table	Row	Description
DWL_PYMT_MTHD_TYP	PYMT_MTHD_TYP_CD	Lookup for type of payment For example: 0 PRPD 1 INVC 2 TRNSFR 3 CC 5 DD 6 DC 11 CASH 12 CHQ 13 WTRNSFR 14 PAYORDR 15 PSTORDR 16 VCHR 17 DRCTDPST 55 BNK 20 POINTS 99 OTHR -5000 UNKNOWN
DWL_ACCT_RFND_RSN	ACCT_RFND_RSN_CD	PRSNT INVCADJ -5000

DWD_AGRMNT_PKG Package

Populate target table DWD_AGRMNT. For more information, see AGREEMENT DRVD.

Table 7–17 DWD_AGRMNT Package Source Tables

Source Table Name
DWB_AGRMNT_TERM
DWB_INVC
DWB_INVC_ITEM
DWL_AGE_ON_NET_BND
DWR_ADDR_LOC
DWR_AGRMNT
DWR_CLNDR_MO
DWR_CMPGN
DWR_CUST
DWR_PRMTN

Table 7–18 DWD_AGRMNT Business Rules

Rule ID	Description
AGRMNT1	The Time Window for this table is the month. This table contains the status for the month as of that date. Start date should always be the 1st day of the current month (at 00:00). End date should change every day (included). For a given run, it will take the last day available within the time period given.
AGRMNT2	The leading table is AGREEMENT TERM (base) whose validity period contains the first of the month considered. The associated AGREEMENT ITEM and AGREEMENTs will be then taken into account.
AGRMNT3	The Product Offering dimension used in this table originates from AGREEMENT and not from AGREEMENT ITEM. Hence, it is assumed that only the "main" product offering will be looked at and will be stored in the AGREEMENT table.
AGRMNT4	A change in Customer (Customer Key) implies a change in Agreement (Agreement Key changes because Customer Key it is associated to changes) and all the Agreement Item and Agreement terms associated.
AGRMNT5	Cumulated Term Value (used for AMORTIZED ARPU AMOUNT) and Remaining Agreement Value are calculated based only on Agreement Term that are associated with monthly fees and whose Unit of Measure is the month).
AGRMNT6	Due to the complexity of the calculation of Agreement Value Loss if one has to consider the true usage and revenue associated with a given agreement, Oracle Communications Data Model will restrict its definition of AGREEMENT LOSS AMOUNT by the CONTRACT VALUE (defined by CSP) in agreement term associated to this agreement at ANY TIME during the life cycle of this agreement. One assumes however that it will come only once at agreement starting date.

DWD_AGRMNT_CHG_PKG Package

Populate target table DWD_AGRMNT_CHNG. For more information, see AGREEMENT CHANGED DRVD.

Table 7–19 DWD_AGRMNT_CHG Package Source Tables

Source Table Name	Alias
DWB_AGRMNT_TERM	
DWR_AGRMNT	DWR_AGRMNT_OLD
DWR_AGRMNT	DWR_AGRMNT_NEW
DWR_AGRMNT_ITEM	
DWR_CHNL	DWR_CHNL
DWR_DAY	DWR_DAY
DWR_PROD_OFR	DWR_PROD_OFR2
DWR_PROD_OFR	DWR_PROD_OFR1
DWR_PROD_SBRP	

Table 7–20 DWD_AGRMNT_CHG Business Rules

Rule ID	Description	Comment
AGRMNT_CHG1	Old and New agreement must be linked within the reference table through a "PREVIOUS AGREEMENT KEY" field (associated with the new agreement), to be considered as Agreement change. There is no direct condition on the elapsed time between the closure of the old agreement and the start of the new one, as long as they are linked with one another (see also AGRMNT_CHG5). There is no limitation in the type of offering (Prepaid, Postpaid and migration between the 2) in the code. A simple surrogate key change is sufficient to feed this table (as long as the required link is present). The date of the change considered is the date at which the new agreement starts.	DWR_AGRMNT.PREV_AGRMNT_KEY is not null. This means that one could easily limit the number of entries in the target tables by limiting the cases when the PREVIOUS AGREEMENT KEY is filled or by simply adding custom conditions on "CHANGE REASON CODE".
AGRMNT_CHG2	Win and loss amount correspond to the "Contract Value" that the Communications Service Provider decided to associate with the old (resp. new) agreement.	
AGRMNT_CHG3	For the Count of Subscription Old and new, one wants to count the number of active subscriptions that ends exactly on the day the OLD agreement ends. Similarly, one counts all the subscriptions that start on the day the new agreement start	This number of subscriptions does NOT yet appear in the target table but could be easily added.
AGRMNT_CHG4	Currently, the customer shall stay identical. The FROM (old) and TO (new) customer key in agreement (old/new) shall be identical	If one wants to remove this condition, one just needs to add a "FROM_CUST_KEY" to the table and feed it with the customer key of the OLD agreement, and remove the where condition "Agreement_old.cust_key= agreement_new.cust_key"
AGRMNT_CHG5	The old agreement must end within the time period considered (Intra ETL parameter).The new agreement must start within the time period considered.	This condition could be loosened by removing the condition that the OLD agreement must end within the time period considered. It could be required that it ends anytime before the end of the period or between the end of the period and a certain amount of days before that. With this change, one remove any constraint on the time elapsed between the old and the new contract but one takes the risk to deteriorate performance (because one might take all ended agreements before this time in the sub-query if one does set any window!).
CANBLZTN_1	Cannibalization is defined by an agreement change with the same customer (same surrogate key!) and with the change happening within a day. Cannibalization has become obsolete	OBSOLETE

DWD_AGRMNT_RVN_DAY Package

Populate target table DWD_AGRMNT_RVN_DAY. For more information, see AGREEMENT REVENUE DAY DRVD.

Table 7–21 DWD_AGRMNT_RVN_DAY Package Source Tables

Source Table Name
DWB_ACCT_BAL
DWB_INVC
DWB_INVC_ITEM
DWR_ADDR_LOC

Table 7–21 (Cont.) DWD_AGRMNT_RVN_DAY Package Source Tables

Source Table Name
DWR_CUST
DWR_PROD
DWR_PROD_OFR
DWR_SL_CHNL_RPRSTV

Table 7–22 DWD_AGRMNT_RVN_DAY Business Rules

Rule ID	Description	Comment
AGRMNT_ RVN_DAY0	Time window: All fact columns shall represent the status from the beginning until the end of the period considered (here: last passed day). It is NEVER a status or a balance at the end of the period. Hence, to have the revenue of a given combination or Product Offering and Product Spec, one shall sum each day of the period considered. Since Revenue Day has to do with Usage (hence CDRs), it is very important to consider the Business Rule RVN_DAY11 for LATE CDRs.	
AGRMNT_ RVN_DAY1	Content of DWD_RVN_DAY: stores all information according to all the dimensions for a given day. In particular, any combination of PRODUCT OFFERING and PRODUCT SPEC can be added wherever needed. Typically, when there is more than one default composite Product Spec to a given Product Offering, or when one wants to have the details of say the handset model chosen depending on various options associated with a given Product Offering. Since all revenue columns are sum-able, it contain the statistics around any PRODUCT OFFERING alone (whatever the Product Spec), or any PRODUCT SPEC. See also RVN_DAY10 and CNT_DAY2 rules.	
AGRMNT_ RVN_DAY2	Definition of the Revenue Types. There are seven types of Revenue: Billed: Any amounts appearing either on a bill sent (postpaid) OR (prepaid) when they already paid for their use of a service OR the monetary amount left expired (. Unbilled: all the other cases. Ignored (that is, columns not fed) in Oracle Communications Data Model. Billed earned: normal case where customer has been billed for the services/usage he has used. Unbilled earned: customer is billed upfront; future cycles fall under unearned revenue. Billed unearned: this is the case when customer has performed some usage (that is, made a call), but has not yet been billed for that usage. Unbilled unearned: an example here is a payment a customer may make upfront, but future services to be rendered are canceled (or simply overpayments they may have made). Previously billed earned: Billed earned from previous period considered. For more information, see *Oracle® Communications Billing and Revenue Management Collecting General Ledger Data*. Oracle Communications Data Model deals only with billed and unbilled revenue, which includes earned and unearned revenue as follows: Billed = billed earned + billed unearned + previously billed earned. Unbilled = unbilled earned + unbilled unearned "Billed" means it appears on an invoice sent to customer ('OPEN') Oracle Communications Data Model includes: UNEARNED will be ignored and set to 0. One assumes immediate revenue recognition. UNBILLED will also be set to 0 by default as it would require quite complex and costly calculation. Note: if the Billing status code is kept in the usage calculation, one could add the unbilled usage to the target table. Recurring Forward Fees are in general set to 0 unless they are invoiced (and they will be considered as earned). Additional definitions: Gross Revenue: reports the total of net and discounted revenue. Discount or Discounted Revenue: reports the balance impacts of discounted revenue. Net Revenue: reports the amount of revenue that remains after applying discounts. Tax: reports the amount of taxes calculated. This data is used for collecting G/L data based on tax codes. Tax is assumed to never be applied in any amounts except on Invoices.	Corresponding SQL Statement Any Prepaid Usage or Expired Monetary Balance shall be considered as "Billed". For Postpaid, "Billed" is when DWB_INVC.STAT_CD ='OPEN' or 'CLOSED'; Unbilled will be all other cases. Because the rule is depending on the billing system itself, and the internal processing, Unbilled revenue will be ignored (present as column but NOT FILLED).

Table 7–22 (Cont.) DWD_AGRMNT_RVN_DAY Business Rules

Rule ID	Description	Comment
AGRMNT_ RVN_DAY3	More Definitions around Revenue: Prepaid Services Revenue (Excluded): this should count all prepaid usage revenue for the period + any expired prepaid revenue even if not used. Billed or unbilled is not relevant in this case since that is not applicable to prepaid. It is always considered as "billed". Postpaid Services Revenue (billed): billed postpaid usage revenue (all services) + billed cycle fees (for example, monthly) + recurring equipment rental (for example, CPE rental). Equipment Revenue (billed): revenue associated with sale of any devices (for example, handsets) and accessories. Other Revenue (billed): this should include other non-recurring customer revenue such as one-time purchase or activation fees, late payment fees, cancellation fees, and so on. Total Gross Revenue (billed): prepaid services revenue + postpaid services revenue + equipment revenue + other revenue. Total Net Revenue (billed): total gross revenue - deductions (for example, taxes, refunds, write-offs).	
AGRMNT_ RVN_DAY4	Condition Definitions: Usage Revenue: Revenue coming from service usage (pay per use) and calls (pay on event, duration and/or volume). The sources will be VOICE CALL DAY, DATA USAGE DAY, VAS USAGE DAY (and not SUPPLEMENTARY SERVICE USAGE DAY).: The field TOT_BLLD_AMT or BLLD_AMT shall be used when PLN_TYP='Prepaid' (and day corresponds). The postpaid Revenue shall come from DWD_INVC_DAY: USG_RVN_BLLD when it is independent of Product Offering and Product Spec (or this number could be used as X-check). It shall come from DWB_INVC_ITEM when the product Offering and/or the Product Spec is required. Expired Revenue (excluded): Revenue that comes from prepaid expired amount.	
AGRMNT_ RVN_DAY5	Roaming Revenue: Roaming Revenue is considered for Roaming events on CSP's network, whose paying party is an external operator. It assumes that any event from WIRELESS ROAMING EVENT only contain such events. It is also expected RMNG_EXTRNL_OPRTR_KEY or EXTRNL_OPRTR_KEY cannot be both null. For Billed Revenue, Invoices must be of Type "RMNG STTLMT" (Roaming Settlement). Roaming domestically (MVNO) is allowed.	
AGRMNT_ RVN_DAY6	Transfer: A transfer (Account, Agreement, Product Subscription) is a change of ownership and is recognized as such if and only if: The "Code" of the entity is not changed The Agreement and its term are not changed. The Product Offering associated is not immediately changed. Only the ownership changes The Status Reason Code is associated with Transfer. There is no time without ownership.	STAT_CD like '2%' (New) and SUBSTR(STAT_CD,1,1) in ('1','2') (old) and new.eff_from_dt -old.eff_ to_dt<=1s
AGRMNT_ RVN_DAY7	Geographic County corresponds to the County of the Primary Address of the Customer when defined.	
AGRMNT_ RVN_DAY8	Organization Business Unit, Sales Channel and Sales Rep : correspond to the respective Sales Channel and Sales Rep directly associated with the Product Offering and Product Spec of the corresponding product subscription. If unclear or undefined, one shall take the last one associated with the corresponding Customer (in the customer table).	
AGRMNT_ RVN_DAY9	Cost Center is the Cost Center associated with the Organization Business Unit considered (if uniquely defined). Keep it 'UNKNOWN' otherwise.	Not used

Table 7–22 (Cont.) DWD_AGRMNT_RVN_DAY Business Rules

Rule ID	Description	Comment
AGRMNT_RVN_DAY10	Product Offering Level and Product Spec Level: (follow-up of RVN_DAY1) When both set to 0, both PRODUCT SPEC and PRODUCT OFFERING should be defined (normally not unknown, although unknown will be accepted). If one of the level is set to 1 and the other to 0, it collects the statistics according to the entity whose level is set to 0, independently of the other. The other will be forced to be 'unknown'. If both levels are set to 1, it collects the global statistics independently of Product Offering or Product Spec. Both are forced to be 'unknown'. This is necessary to allow the calculation of some KPIs. See also CNT_DAY10 rule.	OBSOLETE since the facts are sum-able.
AGRMNT_RVN_DAY11	Late Usage or Late CDRs: Usage that come later shall be taken into account. Hence, the LOAD DATE should be used as part of the criteria to consider a row or not. But the REVENUE associated shall be attributed to the right day, corresponding to the Start Day of the event. This rule could be changed for very late delay (> 3 full months). Those revenues should be excluded.	
RVN_DAY12	For Prepaid, the calculation assume that the Sale Channel and Sales Rep information are associated with the Prepaid subscription. These two fields will be then used.	Not relevant for Agreement Revenue Day
RVN_DAY13	Due to the way to feed DWD_AGRMNT_RVN_DAY (for performance), there will be 1 row per combination of key columns: 1 for postpaid and 3 for Prepaid. As a consequence, - Empty revenue columns shall be filled with 0 and not with null.	The prepaid columns will stay empty.
AGRMNT_RVN_DAY14	Most Key columns will come from the information out of the Product Subscription. In particular, it is expected that the following columns of PRODUCT SUBSCRIPTION are filled (in bold, those critical): Organization Business Unit Code Channel Code (preferred, priority) or Campaign Channel Code Product Offering Code (!) Product Spec Code (!) Customer Code (or at least Account Code). Additionally, it is expected that every PRODUCT SUBSCRIPTION has got an associated AGREEMENT ITEM that points to it.	In DWR_PROD_SBRP, check that the following columns are filled: ORG_BUS_UNIT_KEY CHNL_KEY or CMPGN_CHNL_KEY PROD_OFR_KEY PROD_SPEC_KEY CUST_KEY or ACCT_KEY. Check also that any rows in DWR_PROD_SBRP are pointed at by some rows in DWB_AGRMNT_ITEM. This should be particularly true for the options that impact rating but are not always.
AGRMNT_RVN_DAY15	Plan Type is only 'Postpaid'. Hybrid product offering cannot be considered and will be ignored (at least for billed usage).	If PLN_TYP <> 'Postpaid', all billed usage related columns will be ignored.
AGRMNT_RVN_DAY16	Roaming Revenue concerns only revenue that comes from Roaming TAP OUT file. TAP IN file are NOT considered as part of Roaming Revenue.	This is for RMNG_RVN_UBLLD.
AGRMNT_RVN_DAY17	Interconnect Revenue only concerns revenue from passing traffic. The A & B numbers (if defined at all) are NOT belonging to the Service Provider. Interconnect Traffic will be recognized by a non null revenue associated with INTERCONNECTION field. Cost will be ignored here. It is assumed that all interconnection traffic will be stored in FIXED LINE CALL EVENT (whatever the type of call).	INTCONN_RVN>0 is sufficient as criteria.
AGRMNT_RVN_DAY18	SALES REPRESENTATIVE and COST CENTER columns are currently ignored.	The exact formula used is: nvl(nvl (AGRMNT.SL_CHNL_KEY, AGRMNT.CHNL_KEY), CUST.CHNL_KEY) for SL_CHNL_KEY and nvl(AGRMNT.SL_CHNL_RPRSTV_KEY, -5000) for SL_CHNL_RPRSTV_KEY

Table 7–22 (Cont.) DWD_AGRMNT_RVN_DAY Business Rules

Rule ID	Description	Comment
AGRMNT_ RVN_DAY19	For all USAGE, Billing Status Type code successful (that is, BILLED) is explicitly required.	BLLG_STAT_TYP_CD='SUCC' is expected. The "CASE WHEN" conditions could be all removed (to win time) if one assumes that all usage events stored at the derived layer will always have the same BILLING STATUS TYPE CODE (assumed to be 'SUCC' only).
AGRMNT_ RVN_DAY20	It is assumed that the ORGANIZATION BUSINESS UNIT (as well as others like GEO COUNTY CODE or CUSTOMER TYPE CODE) stored in the derived USAGE tables (VOICE CALL DAY; DATA USAGE DAY and VAS USAGE DAY) are identical to the one set in the invoice. One could add that it should be equal to the one in AGREEMENT to be coherent but that would add another constraint which is not obvious and not strictly necessary. Hence, it is NOT required today.	There is an explicit full join with these conditions between invoice and the usage tables. If this is not the case, the USAGE related statement must be modified to force the ORGANIZATION BUSINESS UNIT there to be equal to one of the invoice
AGRMNT_ RVN_DAY21	It is assumed that a PRODUCT SUBSCRIPTION is UNIQUELY associated to a given AGREEMENT ITEM.	We assume that PROD_SBRP_KEY exists only once in any rows of DWR_AGRMNT_ITEM. Any repeat will lead to multiple lines for the same product subscription, multiplying the same revenue as the number of rows in AGREEMENT ITEM with a given PROD_SBRP_KEY. This business rule is different from RVN_DAY21
AGRMNT_ RVN_DAY22	Information out of the invoice will only be considered when the billing date of the invoice is between the ETL (Time) Parameters. The status of the invoice is ignored. This implies two approximations: The invoice is complete at billing date and will NOT be corrected or updated after that date (or this update will not be considered - like the invoice status change, the partial or full payment after billing date, and so on). Past invoices added at a later time in Oracle Communications Data Model will not be considered. Note: The status of the invoice is ignored only for the selection of the invoice and invoice items. However, the association to an INVOICED (BILLED) or UNBILLED column is based on the status invoice: INVOICED when the 1st 2 characters of Invoice Status Code is between 20 and 59 (both limits included) Unbilled in all other cases.	As customization, one could deal with LOAD DATE and INVOICE CODE to find whether an invoice has already been considered or not. But this could be a heavy job to do it correctly.
AGRMNT_ RVN_DAY23	Discount Revenue: On top of being positive (and to be subtracted from all revenues), it is assumed that only DISC_AMT and related columns have to be considered. This also mean that if an invoice item is of type DISCOUNT (INVOICE ITEM TYP CD like 6%), only DISC_AMT (and related) should then be filled, and not CHRG_ AMT.	
AGRMNT_ RVN_DAY24	Invoice items associated with recurring fees will be associated with only price type code for forward fees (Price_TYP_CD like '11%') or arrear fees ((Price_TYP_CD like '12%'). Any other combination is currently excluded from the REVENUE DAY derived table.	
AGRMNT_ RVN_DAY25	In this Oracle Communications Data Model, CUST3MO_IND and SBRP1MO_IND are currently not in use.	A minor modification of the code could allow end-users to leverage them.

DWD_BER_FER_ERR_RATIO_DAY_PKG Package

Populate target table DWD_BER_FER_ERR_RATIO_DAY. For more information, see BER FER ERROR RATIO DAY DRVD.

Table 7–23 DWD_BER_FER_ERR_RATIO_DAY Package Source Tables

Source Table Name
DWB_ERRD_RTD_WRLS_CALL_EVT
DWL_BER_FER_TYP
DWR_BSNS_MO
DWR_DAY
DWR_RF_CARRIER
DWR_RSCE

DWD_CANBLZTN_DTL_DAY_PKG Package

Populate target table DWD_CANBLZTN_DTL_DAY. For more information, see CANNIBALIZATION DETAIL DAY DRVD.

Table 7–24 DWD_CANBLZTN_DTL_DAY Package Source Tables

Source Table Name
DWR_AGRMNT
DWR_CHNL
DWR_DAY
DWR_PROD_OFR

Table 7–25 DWD_CANBLZTN_DTL_DAY Business Rules

Rule ID	Description
CANBLZTN_1	Cannibalization is defined by an agreement change with the same customer (same surrogate key!) and with the change happening within a day.

DWD_CELL_STTSTC_DAY_PKG Package

Populate target table DWD_CELL_STTSTC_DAY. For more information, see CELL STATISTIC DAY DRVD.

Table 7–26 DWD_CELL_STTSTC_DAY Package

Source Table Name
DWR_AGRMNT
DWR_CHNL
DWR_DAY
DWR_PROD_OFR

DWD_CMPGN_HIST_DAY_PKG Package

Populate target table DWD_CMPGN_HIST_DAY. For more information, see CAMPAIGN HISTORY DAY DRVD.

Table 7–27 DWD_CMPGN_HIST_DAY Package Source Tables

Source Table Name
DWB_ACCT_PYMT
DWB_EVT_ACCT
DWB_EVT_PRTY_INTRACN
DWB_PRTY_PRMTN_RESPN
DWR_DAY
DWR_PROD_OFR
DWR_PROD_SBRP

Table 7–28 DWD_CMPGN_HIST_DAY Business Rules

Rule ID	Description	Comment
CMPGN1	Any response to any promotion and campaign shall be taken into account. Campaign run over phone (SMS or direct call) without entry in promotion response shall also be considered. It could be easily extended to any type of interaction for a campaign (shop, and so on).	Limit search to DWB_PRTY_PRMTN_RESPN and DWB_EVT_PRTY_INTRACN
CMPGN2	In case more than one campaign channel are used for a given campaign associated with a response, the campaign channel will be chosen to be UNKNOWN	if only 1 Campaign Channel available for the campaign, take it. Otherwise, put -5000
CMPGN3	Contact Lists and scripts may not be defined when a campaign is run. In such case, they will be set to unknown.	Use -5000
CMPGN4	The number of contact is independent on the success of the contact (answered or not). For EVENT PARTY INTERACTION CALL, it will be similar to CALL COUNT.	
CMPGN5	The number of activations is based on the effective activation of the customer within a day of the interaction. The status of the subscription determines the activation. A customer order is NOT an activation.	For promotion response, you shall look into subscription with the offer to find out when it was activated.
CMPGN6	There is no difference between an SMS campaign and a campaign over the Phone.	In both case, MEDIA OBJECT shall be 'PHONE'.
CMPGN7	When there is no row in PARTY PROMOTION RESPONSE associated to a campaign (over the phone in our case), the PROMOTION RESULT CODE shall contain the OVERAL RESULT CODE of the Interaction.	
CMPGN8	Reactivation Count is based on EVENT ACCOUNT table. When the event type code is 'RECNCT', it will be counted whether it was suspended or full deactivated. The time span between the reactivation and the call should be less than a month.	
CMPGN9	For Recharge count, the calculation assumes that any existing customer who accepts a Prepaid offer is a recharge.	When DWR_PROD_OFR.PLN_TYP= 'PREPAID' then count 1.
CMPGN10	A successful recharge is defined by the above + a row in ACCOUNT PAYMENT (associated with recharge) and a successful transaction.	
CMPGN11	The total response time is calculated as such: For a promotion response, the time between the campaign start date and the positive or negative response date. (no response means null). For a call, the time between the call (call start date) and the final response (accepted/refused). For a letter, it should be the time between the letter was sent and the final response (accepted/refused).	

Table 7–29 DWD_CMPGN_HIST_DAY Lookup Values

Table	Description
DWL_INTRACN_RSLT_TYP	Lookup for available types of Interaction Relation: 1000 RSLVD 2000 OFRACCEPT 3000 INTEREST 5000 PENDING 6000 DROP 7000 ABDN 8000 RFSD 9000 NEVERCALL -5000 UNKNOWN
DWL_PRMTN_RSLT_TYP	Lookup for available type of Promotion Relation: OFACCPTD Offer Accepted ATRPRVNT Attribution Prevented -5000 Unknown
DWL_PROD_SBRP_STAT_TYP	
DWL_ACCT_EVT_TYP	Lookup for available type of Account Event.: ▪ TMNATMPT Termination Attempted ▪ TMNT Termination ▪ CRT Create ▪ ACTVTN Activation ▪ DISCNCTN Disconnection ▪ INDEACT Involuntary Deactivation ▪ VOLDEACT Voluntary Deactivation ▪ INSUSP Involuntary Suspend ▪ INSUSP Involuntary Suspend ▪ VOLSUSP Voluntary Suspend ▪ RECNCT Reconnect ▪ RFIS Reactivation From Involuntary Suspend ▪ -5000 Unknown

DWD_CNT_DAY_PKG Package

Populate target table DWD_CNT_DAY. For more information, see COUNT DAY DRVD.

Table 7–30 DWD_CNT_DAY Package Source Tables

Source Table Name
DWR_ACCT
DWR_ADDR_LOC
DWR_AGRMNT
DWR_DAY
DWR_PROD_SBRP
DWR_PROD_OFR

Table 7–31 DWD_CNT_DAY Business Rules

Rule ID	Description
CNT_DAY0	Time window: Count represents the status (could be a sum or "as of" depending on the nature of the things that is being counted) for the primary keys combination. In general, all columns whose names finish by "COUNT" represent the status at the end of the period considered (here: last passed day) and of the other primary keys used as well. It is not sum-able. For example, on April 27th in the morning, the COUNT of active customer of Month of April would be # as of April 26th". All columns finishing by "COUNT THIS PERIOD" correspond to a delta between the time period key and the previous time period key (whether win or loss) of the considered period (a day in this case). It is always a positive number and the column meaning will tell whether win or loss. It is sum-able across a time period greater than a day.
CNT_DAY1	Entity Definition: Household: A Building if it belong to one customer only, 1 level or 1 flat otherwise: Customer: A party that has a customer role with respect to the Service Provider Account: The financial vision of the customer for the service provider. Agreement: A tacit or explicit relationship between a customer and the service provider. It is typically for postpaid only (that is, Agreement = contract), although agreements can also be defined for Prepaid if required. SLA are not explicitly counted here. Main or Prime Subscription: A critical Product Subscription that may carry other and without which there is no access to the network or service. Subscription: Any product subscription Access Method: how a customer accesses or utilizes a service from the Service Provider. User: Custom - User Defined Field - not used. Line: Custom - User Defined Field - not used. Please note: None of these definition requires a specific Status of the corresponding entity.
CNT_DAY2	Content of DWD_CNT_DAY: It shall store all information according to all the dimensions for a given day. In particular, any combination of PRODUCT OFFERING and PRODUCT SPEC can be added wherever needed. Typically, when there is more than one default composite Product Spec to a given Product Offering, or when one wants to have the details of say the handset model chosen depending on various options associated with a given Product Offering. On top of the above, it shall contain statistics around any PRODUCT OFFERING alone (whatever the Product Spec), or any PRODUCT SPEC alone. (see business rule CNT_DAY10 with PRODUCT OFFERING LEVEL and PRODUCT SPEC LEVEL). Same remark with PRODUCT SPEC TYPE Finally, it shall contain Statistics independently of any PRODUCT OFFERING and PRODUCT SPEC.
CNT_DAY3	Status Definition: Various statuses are used in DWD_CNT_DAY. Their definitions differ slightly from the usual definition associated with an entity. Pending Activation: Not active yet but a process is on-going. Pre-Activated Prepaid Cards or Future Activation (with signed contract) are in such state. Pre-Activated: Only for off-the-shelf products (typically cards) with immediate use possible. It is a sub-type of Pending Activation. Active: A status that is neither Pending Activation nor Deactivated or Terminated. Hence, reactivated, suspended or dormant statuses are considered as active. Inactive: Cancelled, Deactivated or Terminated. Suspended: A specific status in which customer can receive calls but cannot actively calls except emergency or free numbers. Reactivated: A previously Suspended or Deactivated Entity that is back to active. Cancelled: The (approved) cancellation of a given request of entity within a given timeframe. The canceled entity could have been activated or Pre-Activated. It is considered as Inactive but not as Deactivated.

Table 7–31 (Cont.) DWD_CNT_DAY Business Rules

Rule ID	Description
CNT_DAY4	Condition Definitions: Customer with SLA: Customer which has got at least 1 currently valid SLA associated. Account with SLA: As Customer for Account. Agreement with SLA: Agreement which has got at least 1 SLA associated: necessarily >= SLA count since an SLA is a type of agreement! Main Subscription under SLA: Subscriptions with Essential Indicator set that are under an active SLA. New (Status) Count: Number of Entities with Status with Entity Activation is within last X months. Churned Count: Number of Deactivated Entities (household, Customer, Account). Transferred: Entity "deactivated" for a given Customer and immediately "reactivated" under another, while keeping all the same. It can apply to Account and lower. Please see specific business rule CNT_DAY. It only counts the outgoing entities. New <Entity> due to Agreement or Account Transfer: Counts the Entity that needed to be created following a transfer. (for example: I give my contract to my daughter who was not defined originally). Newly Activated and Cancelled: The entity has been activated AND canceled within the period considered (Day!). Future <Entity> Cancelled: The entity has an activation date sometimes in the future and AND has been canceled before it started. Active Entity Count for Month/Quarter/Year: it counts ANY distinct entity that has been active at anytime within the period considered. A minimum of 1 second is currently considered. Voluntary Suspension: Customer triggered to stop service (theft, holidays…). Temporary state ('suspended') Involuntary Suspension: Service Provider triggered (non-payment, fraud…) Voluntary Termination: Customer triggered (relocation, contract ends - no renewal…). Permanent State (Deactivated). Specific Claw-back actions are allowed. Involuntary Termination: Service Provider triggered (death, fraud, debt …). Permanent State (Deactivated). No claw-back actions allowed.
CNT_DAY5	Services: This is only for the SPECIAL VIEW on DWD_CNT_DAY. Broadband: The Product Offering or Product Spec combination contains or applies to Broadband Service. Wireless: as above for Wireless (2-4G). Hometel: as above for simple PSTN Wireline service (no VoIP). PayTV: As above for PayTV (whatever the deliver channel: wireless, broadband,…). With <Service>: The Product Offering and Product Spec combination contains <Service>. With <Service> in Convergent Package: The Product Offering and Product Spec combination contains <Service> as part of a multi-play offering. Product Subscription Related to <Service >: the corresponding Product Subscription only applies if a <Service> is up & running.
CNT_DAY6	Transfer: A transfer (Account, Agreement, Product Subscription) is a change of ownership and is recognized as such if and only if: The "Code" of the entity is not changed The Agreement and its term are not changed. The Product Offering associated is not immediately changed. Only the ownership changes The Status Reason Code is associated with Transfer. There is no time without ownership.
CNT_DAY7	Geographic County corresponds to the County of the Primary Address of the Customer when defined.
CNT_DAY8	Organization Business Unit, Sales Channel and Sales Rep: correspond to the respective Sales Channel and Sales Rep directly associated with the Product Offering and Product Spec of the corresponding customer. If unclear or undefined, one shall take the last one associated with the corresponding Customer (in the customer table).

Table 7–31 (Cont.) DWD_CNT_DAY Business Rules

Rule ID	Description
CNT_DAY9	Cost Center is the Cost Center associated with the Organization Business Unit considered (if uniquely defined). Keep it 'UNKNOWN' otherwise.
CNT_DAY10	Product Offering Level and Product Spec Level: (follow-up of CNT_DAY2) ■ For PROD_OFR hierarchy: 3 levels only: TPRO_OFR, PLN_TYP and PROD_OFR_CD: Possible values are: ■ 'TPROD_OFR' (total PROD_OFR) or ■ 'PLN_TYP' ■ 'PROD_OFR_KEY' for the lower lvl. In PROD_OFR_KEY column, the content will be respectively: ■ '-5000' for highest level ■ 'Prepaid' or 'Postpaid' (only) ■ The PROD_OFR_KEY (number) For PROD_SPEC_LVL: the 3 levels would be ■ 'TPROD_SPEC' for highest level, or ■ 'PROD_SPEC_TYP_CD' for middle level ■ 'PROD_SPEC_KEY', for lowest level In PROD_SPEC_KEY column, you would have respectively: ■ '-5000' for highest level ■ The PROD_SPEC_TYP_CD for middle level (so the PROD_SPEC TYP on which you aggregate all sub-PROD_SPEC_KEYs), or ■ 'PROD_SPEC_KEY', for lowest level When both set to lowest level, both PRODUCT SPEC and PRODUCT OFFERING should be defined (normally not unknown, although unknown will be accepted). If one of the level is set to a higher level and the other to lowest, it collects the statistics according to the entity whose level is set to the lowest, aggregated up to the level of the other. If both levels are set to highest level, it collects the global statistics independently of Product Offering or Product Spec. Both are forced to be '-5000'. This is necessary to allow the calculation of some KPIs.
CNT_DAY11	Household and County: Households and Counties hardly change. Hence, the Surrogate Key will be assumed not to change for a given Household or County.

Table 7–32 DWD_CNT_DAY Lookup Values

Table	Row	Code	Description
DWR_CUST	STAT_CD	'1%'	Pending Activation
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_AGRMNT	STAT_CD	'15%'	Pre-Activated
DWR_CUST			
DWR_ACCT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'2%'	Active
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_ACCT	STAT_CD	'29%'	Suspended
DWR_PROD_SBRP			

Table 7–32 (Cont.) DWD_CNT_DAY Lookup Values

Table	Row	Code	Description
DWR_CUST	STAT_CD	'4%'	Deactivated / Terminated
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'5%'	Cancelled
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	PRMRY_STAT_RSN_CD		
DWR_ACCT	ACCT_STAT_RSN_CD		
DWB_AGRMNT_STA	AGRMNT_STAT_RSN_CD		
DWR_PROD_SBRP	PROD_SBRP_STAT_RSN_		
DWB_ACCS_MTHD_STAT_HIST	CD ACCS_MTHD_STAT_ RSN_CD		
DWR_CUST	XXX_RSN_CD	'3%'	Suspension:
DWR_ACCT			37% or 38% for Involuntary Suspension only, all others are Voluntary.
DWB_AGRMNT_STA			
DWR_PROD_SBRP			
DWB_ACCS_MTHD_STAT_HIST			
DWR_CUST	XXX_RSN_CD	'4%'	Voluntary Status Change: Termination Voluntary
DWR_ACCT			
DWB_AGRMNT_STA			
DWR_PROD_SBRP			
DWB_ACCS_MTHD_STAT_HIST			
DWR_CUST	XXX_RSN_CD	'8%'	Involuntary Status Change: Termination Involuntary
DWR_ACCT			
DWB_AGRMNT_STA			
DWR_PROD_SBRP			
DWB_ACCS_MTHD_STAT_HIST			

DWD_CNTCT_CNTR_DAY_PKG Package

Populate target table DWD_CNTCT_CNTR_DAY. For more information, see CONTACT CENTER DAY DERIVED.

Table 7–33 DWD_CNTCT_CNTR_DAY Package Source Tables

Source Table Name
DWB_EVT_PRTY_INTRACN
DWR_CALL_CNTR
DWR_CHNL
DWR_DAY
DWR_ORG_BSNS_UNIT
DWR_PROD_SBRP
DWR_TIME_SLT
DWV_PRTY_INTRACN_THRD

Table 7–34 DWD_CNTCT_CNTR Business Rules

Rule ID	Description	Comment
CNTCT_CNTR _CALL1	Timeslot definition is supposed to be true for any day of the week. It corresponds to quarter of hours.	
CNTCT_CNTR _CALL2	The CALL CENTER should be understood as a general CONTACT CENTER. Contact can be done through Email, Chat, Letter, or visit. Important is that it does not take place at customer's site and it is measurable (call/time in - time out). In this specific intra-ETL, limit to calls only. Hence, only consider the logical entities EVENT PARTY INTERACTION CALL (DWB_EVT_ PRTY_INTRACN_CALL).	
CNTCT_CNTR _CALL3	Call Transfer will be treated as another event related to the first call in the same party interaction thread. It is assumed that it deals with the same problem (see otherwise CNTCNTR_ CALL6). Hence, the number of contacts (calls) is increased by the number of Transfers.	
CNTCT_CNTR _CALL4	By interaction occurring through the web portal of the CSP, the **party interactionis not considered** to start when the customer enters the web portal but when the **chat session starts**. Click stream analysis is to be treated elsewhere.	
CNTCT_CNTR _CALL5	Waiting, Hold, Queue time shall only be considered for Phone calls.	
CNTCT_CNTR _CALL6	In case of multiple reasons for a call, a separate case (hence, interaction thread) has to be created.	
CNTCT_CNTR _CALL7	The call direction is with respect to the call center view (inbound "**I**", customer calling, or outbound "**O**", when the agent calls). It is defined by who is starting the call or the chat.	
CNTCT_CNTR _CALL8	Dropped calls or chat is assumed to be generated by the customer only.	Interaction Result Type Code = 'DROP'
CNTCT_CNTR _CALL9	Complaints are only counted when the original reason of the call was the complain itself and from a customer. Otherwise, complaints during a call for another reason will not be considered.	Interaction Reason Code = 'CUSTCOMP'.
CNTCT_CNTR _CALL10	Abandoned call is defined to be either when recognized as such or when the customer drops while in the queue.	Hence, the conditions is an interaction result type of "Abandoned" ('ABDN') or interaction result type as "Dropped Call" ('DROP') and 0 talk time.
CNTCT_CNTR _CALL11	Hangup call is defined when the customer drops while talking to the contact center agent.	Hence, the conditions is interaction result type as "Dropped Call" ('DROP') and talk time>0.
CNTCT_CNTR _CALL12	Released call is defined when the contact agent center stops the call. It is neither dropped nor abandoned.	Hence, the conditions is interaction result type is not "Dropped Call" ('DROP') nor "Abandoned" ('ABND') and talk time>0.
CNTCT_CNTR _CALL13	Handling Time is defined by addition of the queue time and the hold time and the talk time.	

Table 7–35 DWD_CNTCT_CNTR Lookup Values

Table	Description
DWL_INTRACN_RSLT_TYP	Lookup for available types of Interaction Relation: 1000 RSLVD 2000 OF RACCEPT 3000 INTEREST 5000 PENDING 6000 DROP 7000 ABDN 8000 RFSD 9000 NEVERCALL -5000 UNKNOWN
DWL_INTRACN_RSN	Lookup for available type of Interaction Reason.: 1000 MKTG QOT-OFR 1100 MKTG INBOND 1200 MKTG OUTBOND 2000 CUST INQ 2100 OFR INQ 2700 TECH INQ 2300 BILL INQ 2200 OFR INQ RESP 2400 BILL INQ RESP 2800 TECH INQ RESP 6000 DBCOLL 6100 DBCOLL CNTCT RETRN 6200 DBCOLL OUTBOND 7000 DSPT 8000 CMPLN 9000 SRVC CNTCT 9100 TECH TRBL REP INBOND 9180 TECH TRBL REP INBOND CMPLN 9200 TECH TRBL CNTCT OUTBOND AFT REP 9210 TECH TRBL CNTCT OUTBOND PROACT 9400 SRVC NOTFCTN -5000 UNKNOWN
DWL_PROD_SBRP_STAT_TYP	
DWL_ACCT_EVT_TYP	Lookup for available type of Account Event.: TMNATMPT Termination Attempted TMNT Termination CRT Create ACTVTN Activation DISCNCTN Disconnection INDEACT Involuntary Deactivation VOLDEACT Voluntary Deactivation INSUSP Involuntary Suspend VOLSUSP Voluntary Suspend RECNCT Reconnect RFIS Reactivation From Involuntary Suspend -5000 Unknown

DWD_CUST_DNA_PKG Package

Populate the target table DWD_CUST_DNA. For more information, see CUSTOMER DNA DRVD.

Table 7–36 DWD_CUST_DNA Package Source Tables

Source Table Name
DWB_ACCT_STAT_HIST
DWB_BRDBND_USG_EVT
DWB_FIXED_LN_CALL_EVT
DWB_ISP_USG_EVT
DWB_NP_RQST_HDR
DWB_NP_RQSWR_EXTRNL_OPRTR
DWB_MMS_EVT
DWB_SMS_EVT
DWB_WRLS_CALL_EVT
DWB_WRLS_CNTNT_DNLDG_EVT
DWD_ACCT_DEBT_MO
DWD_ACCT_PYMT_DAY
DWD_AGRMNT
DWD_CNTCT_CNTR_DAY
DWD_PRPD_ACCT_STTSTC_DAY
DWL_AGE_BND
DWL_AGE_ON_NET_BND
DWL_DEBT_AGNG_BND
DWR_ACCT
DWR_ADDR_LOC
DWR_AGRMNT
DWR_CUST
DWR_CUST_SCR
DWR_DEMOG_ATRIB
DWR_EXTRNL_OPRTR
DWR_HH
DWR_INDVL_DEMOG_VAL
DWR_JB
DWR_SOC_JB

DWD_CUST_EQPMNT_INSTLTN_DAY_PKG Package

Populate the target table DWD_CUST_EQPMNT_INSTLTN_DAY. For more information, see CUSTOMER EQUIPMENT INSTALLATION DAY DRVD.

Table 7–37 DWD_CUST_EQPMNT_INSTLTN_DAY Package Source Tables

Source Table Name
DWB_CUST_FLD_SRVC_ACTVTY
DWB_CUST_FLD_SRVC_DTL
DWB_CUST_ORDR_LN_ITEM

Table 7–37 (Cont.) DWD_CUST_EQPMNT_INSTLTN_DAY Package Source Tables

Source Table Name
DWR_ADDR_LOC
DWR_CUST
DWR_PROD_SPEC

Table 7–38 DWD_CUST_EQPMNT_INSTLTN_DAY Business Rules

Rule ID	Description	Comment
FLDACT1	Time Window is the day. It is the status of all activities at the end of the given day. The starting date defines the day.	
FLDACT2	By "Activity", it is meant each sequential activity (so the details) and not the global activity. This is required due to the Product Specification dimension, which is only available at this level. The exception to this rule is for INSTALLATION. The Installation-related activities are looking only at the customer support field activity (header) and overall result.	
FLDACT3	One assumes that the CUSTOMER information is stored in the SERVICE FIELD ACTIVITY.	In DWB_CUST_FLD_SRVC_ACTVTY, CUST_KEY is non filled.
FLDACT4	The County associated with this table does correspond to the county of the location of the activity. It is assumed that the address location of the activity is stored directly into the customer field service detail, and not through Business Interaction Location.	
FLDACT5	Leading information is the Customer Field Service Detail. The header (Customer Field Service Activity) and the related customer line item give additional information.	
FLDACT6	Returned items shall be identify through customer order line item status.	
FLDACT7	For detailed activity (sub-activity), a PENDING status is also considered as FAILED (since it is not successful). This rule could be easily modified by either creating a new column or by considering only the overall activity status. For overall activity (header), in the case of installation, one considers each status (Successful, Pending, failed) independently on one another.	

Table 7–39 DWD_CUST_EQPMNT_INSTLTN_DAY Lookup Values

Table	Code	Description
DWL_FLD_ACTVTY_RSLT_TYP	ACTVTY_RSLT_TYP	FIELD ACTIVITY RESULT TYPE

DWD_CUST_ORDR_DAY_PKG Package

Populate target table DWD_CUST_ORDR_DAY. For more information, see CUSTOMER ORDER DAY DERIVED.

Table 7–40 DWD_CUST_ORDR_DAY Package Source Tables

Source Table Name
DWB_CUST_ORDR
DWB_CUST_ORDR_STATE_ASGN
DWL_ORDR_STATE
DWR_ADDR_LOC
DWR_DAY
DWR_CUST

DWD_CUST_ORDR_LN_ITEM_DAY_PKG Package

Populate target table DWD_CUST_ORDR_LN_ITEM_DAY. For more information, see CUSTOMER ORDER LINE ITEM DAY DERIVED.

Table 7–41 DWD_CUST_ORDR_LN_ITEM_DAY Package Source Tables

Source Table Name
DWB_CUST_ORDR
DWB_CUST_ORDR_LN_ITEM
DWB_CUST_ORDR_LN_ITEM_STATE_ASGN
DWB_RTL_SL_RTRN_LI
DWB_DISC_LI
DWR_ADDR_LOC
DWR_CUST
DWR_DAY

DWD_CUST_SKU_SL_RETRN_DAY_PKG Package

Populate target table DWD_CUST_SKU_SL_RETRN_DAY. For more information, see CUSTOMER SKU SALES RETURN DAY DRVD.

Table 7–42 DWD_CUST_SKU_SL_RETRN_DAY Package Source Tables

Source Table Name
DWB_DISC_LI
DWB_RTL_SL_RTRN_LI
DWR_CUST
DWR_DAY

DWD_DATA_USG_DAY_PKG Package

Populate target table DWD_DATA_USG_DAY. For more information, see DATA USAGE DAY DRVD.

Table 7–43 DWD_DATA_USG_DAY Package Source Tables

Source Table Name
DWB_CNTNT_DLVRY_EVT
DWB_WRLS_CNTNT_DNLDG_EVT
DWR_ACCT
DWR_ADDR_LOC
DWR_BASE_TRNSCVR_STN
DWR_CNTNT
DWR_CUST
DWR_DAY
DWR_PROD_OFR
DWR_SRVC

Table 7–44 DWD_DATA_USG_DAY Business Rules

Rule ID	Description
DATAUSG1	The main sources for this table are the CONTENT DELIVERY EVENT and WIRELESS CONTENT DOWNLOAD EVENT and GPRS USAGE EVENT for PCU related facts. It is assumed that there is no duplicates between Events of any tables (a given event - with a specific event code - is in only one the tables).
DATAUSG2	When a wireless download event is considered, the resource associated to the CDR is supposed to be the BTS, from which a CELL SITE can be obtained.
DATAUSG3	The number of subscribers concerns only GPRS calls. It counts one per Customer using GPRS.
DATAUSG4	The fields: GPRS_DNLD_VOL, DATA_SZ and BYTES_RCVD are mutually exclusive. Similarly with the fields: GPRS_UPLD_VOL, DATA_SZ and BYTES_SENT
DATAUSG5	Channel Request Received and Rejected are currently not filled by Oracle Communications Data Model. Those should be made available upon request by implementation team out of the events.

DWD_GIVE_AWAY_ITEM_DAY_PKG Package

Populate target table DWD_GIVE_AWAY_ITEM_DAY. For more information see GIVE AWAY ITEM DAY DRVD.

Table 7–45 DWD_GIVE_AWAY_ITEM_DAY Package

Source Table Name
DWB_CUST_ORDR
DWB_CUST_ORDR_LN_ITEM
DWB_RTL_SL_RTRN_LI
DWR_ITEM_SPEC
DWR_SKU_ITEM

Table 7–46 DWD_GIVE_AWAY_ITEM_DAY Business Rules

Rule ID	Description	Comment
GIVEAWAY1	The Time Window for this table is the day. This table contains the status for the day as of that date. It shall select any transactions For a given run, it will take the last full day available within the time period given.	
GIVEAWAY2	For the Retail transaction, it is assume that the promotion code corresponds 1:1 to the product offering code AND that the retail type shall be a promotion ('PROMOTION'). For a customer order, the GIVE_AWAY TYPE CODE should not be null.	PRMTN_KEY = PROD_OFR_KEY in DWB_RTL_SL_RTRN_LI DWB_RTL_SL_RTRN_LI.RTL_TYP_CD = ' PROMOTIONTYPE' For DWB_CUST_ORDR, use the GIVE_AWAY_TYP_CD is not null.
GIVEAWAY3 (see also AGRMNT3)	The Product Offering dimension used in this table originates from AGREEMENT and not from AGREEMENT ITEM. Hence, it is assumed that only the "main" product offering will be looked at and will be stored in the AGREEMENT table.	

Table 7–46 (Cont.) DWD_GIVE_AWAY_ITEM_DAY Business Rules

Rule ID	Description	Comment
GIVEAWAY4	In order for the give-away item to be considered, there must be a Component Product Offering Price of the main PRODUCT OFFERING PRICE of the agreement of a given customer order, with a PRODUCT SPECIFICATION associated with the ITEM SPECIFICATION which corresponds 1:1.	The conditions are: DWR_AGRMNT.PROD_OFR_KEY = DWR_PROD_OFR.PROD_OFR_KEY AND XXX.PROD_SPEC_KEY = DWR_CMPNT_PROD_OFR_PRICE.PROD_SPEC_KEY AND DWR_PROD_OFR.PROD_OFR_PRICE_KEY = DWR_CMPNT_PROD_OFR_PRICE. PROD_OFR_PRICE_KEY Assume that the redeemed object is ALWAYS defined in DWR_CMPNT_PROD_OFR_PRICE AND DWR_ITEM_SPEC.ITEM_SPEC_KEY = XXX.ITEM_KEY
GIVEAWAY5	The number of units to consider are either: The redeemed units The shipped units (and if null, the ordered units) The effective units sold Cancellation shall be considered as a negative number in units.	
GIVEAWAY6	The giveaway price (as apparent value to the customer) is the maximum price per unit available in any list corresponding to this product offering.	A Max will be used.
GIVEAWAY7	The actual cost or ITEM COST are the total cost and includes the number of units times the cost per unit for the given transaction (loyalty redemption or retail or customer order).	
GIVEAWAY8	Similar to GIVEAWAY5 with the EXTENDED AMOUNT (retail and customer order).	
GIVEAWAY9	For a Retail transaction, the sales channel is the organization Business Unit associated with it.	ORG_BUS_UNIT_KEY shall be mapped to SL_CHNL_KEY.

Table 7–47 DWD_GIVE_AWAY_ITEM_DAY Lookup Values

Table	Row	Description
DWL_RTL_TYP	RTL_TYP_CD	Lookup for type of retail. For example: Clearancetype Promotiontype Regulartype -5000 (Unknown)

DWD_INV_ADJ_ITEM_DAY_PKG Package

Populate target table DWD_INV_ADJ_ITEM_DAY. For more information, see INVENTORY ADJUSTMENT ITEM DAY DRVD.

Table 7–48 DWD_INV_ADJ_ITEM_DAY Package

Source Table Name
DWB_INV_ADJ_DOC_LI
DWL_ENV_TYP
DWR_INV_LOC
DWR_SKU_ITEM
DWR_DAY

DWD_INV_POSN_ITEM_DAY_PKG Package

Populate target table DWD_INV_POSN_ITEM_DAY. For more information, see INVENTORY POSITION ITEM DAY DRVD.

Table 7–49 DWD_INV_POSN_ITEM_DAY Package

Source Table Name
DWB_INV_ITEM_STATE
DWB_PHY_CNT_DOC_LI
DWC_ETL_PARAMETER
DWR_ACCT
DWR_DAY
DWR_SKU_ITEM

DWD_INV_RCPT_ITEM_DAY_PKG Package

Populate target table DWD_INV_RCPT_ITEM_DAY. For more information, see INVENTORY RECEIPT ITEM DAY DRVD.

Table 7–50 DWD_INV_RCPT_ITEM_DAY Package

Source Table Name
DWB_INV_CNTRL_DOC
DWB_INV_CNTRL_DOC_LI
DWR_DAY

Table 7–51 DWD_INV_RCPT_ITEM_DAY Business Rules

Rule ID	Description
DWL_INV_DOC_TYP_CD	RECEIVINGDOCUMENT

DWD_INV_UNAVL_ITEM_DAY_PKG Package

Populate target table DWD_INV_UNAVL_ITEM_DAY. For more information, see INVENTORY UNAVAILABLE ITEM DAY DRVD.

Table 7–52 DWD_INV_UNAVL_ITEM_DAY Package

Source Table Name
DWB_INV_ITEM_STATE
DWR_DAY

Table 7–53 DWD_INV_UNAVL_ITEM_DAY Business Rules

Rule ID	Description
	All inventory items are listed in DWB_INV_ITEM_STATE. DWB_INV_ITEM_STATE is updated when an inventory transaction occurs in the source system. All items that are in-stock but unavailable to sell are accounted for in DWB_INV_INTEM_STATE with State_code as one of the listed lookup values.

Table 7–54 DWD_INV_UNAVL_ITEM_DAY Lookup Values

Table	Row	Code	Description
DWL_INV_STATE	ONHAND		On Hand
	ONORDER		On Order
	ONLAYAWAY		On Layaway
	DAMAGED		Damaged
	TOBERETURNED		To Be Returned
	INTRANSIT		In Transit
	ALLOCATEDRESERVED		Allocated Reserved
	TRANSFERRESERVED		Transfer Reserved
	AVAILABLETOSELL		Available to Sell
	PASTUSEBYDATE		Past Use by Date

DWD_INV_XFER_ITEM_DAY_PKG Package

Populate target table DWD_INV_XFER_ITEM_DAY. For more information, see INVENTORY TRANSFER ITEM DAY DRVD.

Table 7–55 DWD_INV_XFER_ITEM_DAY Package

Source Table Name
DWB_INV_CNTRL_DOC
DWB_INV_CNTRL_DOC_LI
DWR_DAY

Table 7–56 DWD_INV_XFER_ITEM_DAY Lookup Values

Table	Row	Code	Description
DWL_INV_DOC_TYP_CD	TRANSFERIN		Doc for transfer in goods.
	TRANSFEROUT		Doc for transfer out goods.

DWD_INVC_PKG Package

Populate target table DWD_INVC_DAY. For more information, see INVOICE DRVD.

Table 7–57 DWD_INVC Package

Source Table Name
DWB_ACCT_CRDT_LMT
DWB_INVC
DWB_INVC_ADJ
DWB_INVC_ITEM
DWL_AGE_ON_NET_BND
DWR_ACCT
DWR_ADDR_LOC
DWR_BSNS_MO
DWR_CNRT
DWR_CUST
DWR_SBRP

DWD_INVC_AGNG_DAY_PKG Package

Populate target table DWD_INVC_AGNG_DAY. For more information, see INVOICE DRVD.

Table 7–58 DWD_INVC_AGNG_DAY Package

Source Table Name
DWB_INVC
DWR_ACCT
DWR_CUST
DWR_DAY

Table 7–59 DWD_INVC_AGNG_DAY Business Rules

Rule ID	Description
INVCAG1	Invoice Aging applies only on OPEN Invoices, dispatched to the customers, hence of customers who have at least one Postpaid contract (agreement).The Invoices must have been sent to customer and still be in open state (that is, not fully paid).
INVCAG2	Late Payment Fees are counted in the DUE AMOUNT of the unpaid invoice. Otherwise, if they appear on the next invoice only, they need to be added explicitly to the still unpaid invoice leveraging INVOICE ADJUSTMENT. Consequently, the LATE PAYMENT FEE related fields should be filled leveraging the "Deferred Payment Charge Amount" of the INVOICE table

DWD_NBR_PRT_DAY_PKG Package

Populate target table DWD_NBR_PRT_DAY. For more information, see NUMBER PORT DAY DRVD.

Table 7–60 DWD_NBR_PRT_DAY Package

Source Table Name
DWB_NP_RQST_HDR
DWB_NP_RQST_STATE_HIST
DWR_DAY

DWD_POS_TNDR_FLOW_PKG Package

Populate target table DWD_POS_TNDR_FLOW. For more information, see POINT OF SALE TENDER FLOW DRVD.

Table 7–61 DWD_POS_TNDR_FLOW Package

Source Table Name
DWB_RTL_TNDR_LI
DWB_NP_RQST_STATE_HIST
DWR_DAY
DWR_USER

DWD_PRCS_INVC_DAY_PKG Package

Populate target table DWD_PRCS_INVC_DAY. For more information, see PROCESS INVOICE DAY DRVD.

Table 7–62 DWD_PRCS_INVC_DAY Package

Source Table Name
DWB_PRCS_INVC_DSPTCHG_EVT
DWB_PRCS_INVC_GNRTN_EVT
DWB_PRCS_INVC_ISSNG_EVT
DWR_DAY
DWR_EMP
DWR_INVC_PRCS_ASGN
DWR_PRCS
DWR_PRCS_EVT_ASGN

Table 7–63 DWD_PRCS_INVC_DAY Business Rules

Rule ID	Description	Comment
PRCSINVC1	All processes related to billing will be available, whether manual or automatic. The **effective** sequential relationship between processes is also available: this means that I could have 2 or 3 invoice generation processes (1 normal, 1 being automatic recycling and 1 being manual recycling), that are linked with the same Invoice issuing process. This assumption is critical in order to calculate correctly the KPIs	The table PROCESS EVENT ASSIGNMENT should be filled at least for those invoice generation processes. Note that it does not matter how many processes have run, whether the 3 of them or only 1 or 2. Whatever is available will be filled.
PRCSINVC2	Only successful **dispatching** processes ended on the day under observation are considered (process status like '4%') to feed non-0 results into the derived table. The other processes can have failed and be restarted.	PRCS_STAT_CD like '4%' for each type of Process event.
PRCSINVC3	It is assumed that only one billing cycle at a time is processed, and for only one type of customer.	Billing cycle and Customer Type code stored will be the one associated with the FROM parameter of the Invoice process (if filled): Hence, if one goes over all customer type for a given billing cycle, the result or reports will currently be wrong (that is: the dimension CUSTOMER TYPE will be wrongly filled. The total (counts and amounts) will be have ALL customer types).
PRCSINVC4	In the count of "Outstanding Invoices", one considers only the dispatching processes. Invoices in error in previous processes are currently NOT considered. Outstanding invoice count is the addition of invoice in error during the dispatching processes AND returned invoices. In the Amount of Outstanding invoice, only the **due amount** of **successfully dispatched** invoices is considered.	Hence, the INVC_OUTSTDNG_CNT and TOT_INVC_OUTSTDNG_AMT does NOT represent the same variable (same way of calculation). If one wants the average invoice amount outstanding, one needs to link with INVOICE table and check there.
PRCSINVC5	Error, automatically or manually recycled, or recycled more than once Counts consider **all errors at any level of the end-to-end process**. Hence, even if a given invoice has been in error once and then successfully recycled, and then to be dispatched successfully with the others, this invoice will be considered when counting the invoice in error.	INVC_WITH_ERROR_CNT = SUM(DWB_PRCS_INVC_GNRTN_EVT.UNIT_ERR_CNT + DWB_PRCS_INVC_ISSNG_EVT.UNIT_ERR_CNT + DWB_PRCS_INVC_DSPTCHG_EVT.UNIT_ERR_CNT);
PRCSINVC6	The organization unit considered is from the employee responsible for the invoice issuing process (printing) only.	
PRCSINVC7	Most amounts related to invoices considered in the final target tables are only the ones associated with successfully dispatched invoices. The process must have ended successfully (Process status code like '4%').	

Table 7–63 (Cont.) DWD_PRCS_INVC_DAY Business Rules

Rule ID	Description	Comment
PRCSINVC8	An exceptional invoice end-to-end process is considered as such if and only if the generation process is "exceptional". The other processes are automatically assumed to also be "exceptional"	This applies to SUCC_EXCEP_INVC_CNT.
PRCSINVC9	Successfully recycled at least once measure is only based on the **dispatching process**, not on the end to end process.	This applies to SUCC_RCYCLD_AT_LEAST_1_CNT
PRCSINVC10	The process counts are based on the process event code. Process without error counts are based on the same but with the condition that process status code is successfully run (PRCS_STAT_CD like '4%') and there is no unit in error.	Note that the dispatching process is ALWAYS successful (except if UNIT_IN_ERR_CNT is not 0 or null) since the selection criteria of the dispatching process requires this condition.
PRCSINVC11	Process Duration considers the time elapsed between the start of the first process and the end of the last process of the same type (invoice generation, issuing or dispatching). **It is the not the sum of each process duration!**	If the sum of each process duration is required, it shall be added as a customization.
PRCSINVC12	The time elapsed between the beginning of the invoice generation process and ending of the invoice dispatching process shall NOT exceed 2 months or it will be ignored. The time elapsed between the beginning of the invoice issuing and ending of the invoice dispatching process shall NOT exceed 2 months or it will be ignored.	These parameters are for performance only. They could be removed.
PRCSINVC13	MEDIA OBJECT TYPE CODE	ignored (Fixed to be '-5000')

DWD_PRPD_ACCT_STTSTC_DAY_PKG Package

Populate target table DWD_PRPD_ACCT_STTSTC_DAY. For more information, see PREPAID ACCOUNT STATISTIC DRVD.

Table 7–64 DWD_PRPD_ACCT_STTSTC Package Source Tables

Source Table Name
DWB_ACCT_BAL
DWB_ACCT_PYMT
DWB_EVT_PRTY_INTRCTN
DWL_INTRACTN_RSN
DWR_ACCT
DWR_AGRMNT
DWR_CUST
DWR_DAY
DWR_PROD_OFR

DWD_RTL_SL_RETRN_ITEM_DAY_PKG Package

Populate target table DWD_RTL_SL_RETRN_ITEM_DAY. For more information see RETAIL SALES RETURN ITEM DAY DRVD.

Table 7–65 DWD_RTL_SL_RETRN_ITEM_DAY Package

Source Table Name
DWB_DISC_LI
DWB_RTL_SL_RTRN_LI
DWR_DAY

DWD_RVN_DAY_PKG Package

Populate target table DWD_RVN_DAY. For more information, see REVENUE DAY DRVD.

Table 7–66 DWD_RVN_DAY Package

Source Table Name
DWB_ACCT_BAL
DWB_INVC
DWB_INVC_ITEM
DWD_DATA_USG_DAY
DWD_VAS_USG_DAY
DWD_VOI_CALL_DAY
DWR_ADDR_LOC
DWR_CUST
DWR_PROD_OFR
DWR_PROD_SBRP
DWR_SL_CHNL_RPRSTV

Table 7–67 DWD_RVN_DAY Business Rules

Rule ID	Description	Comment
RVN_DAY0	Time window: All fact columns shall represent the status from the beginning until the end of the period considered (here: last passed day). It is NEVER a status or a balance at the end of the period. Hence, to have the revenue of a given combination or Product Offering and Product Spec, one shall sum each day of the period considered. Since Revenue Day has to do with Usage (hence CDRs), it is very important to consider the Business Rule RVN_DAY11 for LATE CDRs.	
RVN_DAY1	Content of DWD_RVN_DAY: It shall store all information according to all the dimensions for a given day. In particular, any combination of PRODUCT OFFERING and PRODUCT SPEC can be added wherever needed. Typically, when there is more than one default composite Product Spec to a given Product Offering, or when one wants to have the details of say the handset model chosen depending on various options associated with a given Product Offering. Since all revenue columns are sum-able, it contain automatically the statistics around any PRODUCT OFFERING alone (whatever the Product Spec), or any PRODUCT SPEC alone. Hence, the use of PRODUCT OFFERING LEVEL and PRODUCT SPEC LEVEL is not necessary. See also RVN_DAY10 and CNT_DAY2 rule	
RVN_DAY2	Definition of the Revenue Types: There are 7 types of Revenue: **Billed**: Any amounts appearing either on a bill sent (postpaid) OR (prepaid) when they already paid for their use of a service OR the monetary amount left expired (. **Unbilled:** all the other cases. **Ignored** (that is columns not fed) in Oracle Communications Data Model. **Billed earned**: normal case where customer has been billed for the services/usage he has used. **Unbilled earned**: customer is billed upfront; future cycles fall under unearned revenue. **Billed unearned**: this is the case when customer has performed some usage (that is, made a call), but has not yet been billed for that usage. **Unbilled unearned**: an example here is a payment a customer may make upfront, but future services to be rendered are canceled (or simply overpayments they may have made). **Previously billed earned**: Billed earned from previous period considered. For more information, see *Oracle® Communications Billing and Revenue Management Collecting General Ledger Data*. Oracle Communications Data Model deals only with billed and unbilled revenue, which includes earned and unearned revenue as follows: **Billed** = billed earned + billed unearned + previously billed earned. **Unbilled** = unbilled earned + unbilled unearned "Billed" means it appears on an **invoice** sent to customer ('OPEN') Additional definitions: **Gross Revenue**: reports the total of net and discounted revenue. **Discount or Discounted Revenue**: reports the balance impacts of discounted revenue. **Net Revenue**: reports the amount of revenue that remains after applying discounts. **Tax**: reports the amount of taxes calculated. This data is used for collecting G/L data based on tax codes. **Tax is assumed to never be applied in any amounts except on Invoices.**	Corresponding SQL Statement Any Prepaid Usage or Expired Monetary Balance shall be considered as "Billed". For Postpaid, "Billed" is when DWB_INVC.STAT_CD='OPEN' or 'CLOSED'; Unbilled will be all other cases. Because the rule is depending on the billing system itself, and the internal processing, **Unbilled revenue** will be ignored (present as column but NOT FILLED).

Table 7–67 (Cont.) DWD_RVN_DAY Business Rules

Rule ID	Description	Comment
RVN_DAY3	**More Definitions around Revenue:** **Prepaid Services Revenue**: this should count all prepaid usage revenue for the period + any expired prepaid revenue even if not used. Billed or unbilled is not relevant in this case since that is not applicable to prepaid. It is always considered as **"billed"**. **Postpaid Services Revenue** (billed): billed postpaid usage revenue (all services) + billed cycle fees (for example: monthly) + recurring equipment rental (for example: CPE rental). **Equipment Revenue (billed)**: revenue associated with sale of any devices (for example: handsets) and accessories. **Other Revenue (billed)**: this should include other non-recurring customer revenue such as one-time purchase or activation fees, late payment fees, cancellation fees, and so on… **Total Gross Revenue (billed)**: prepaid services revenue + postpaid services revenue + equipment revenue + other revenue. **Total Net Revenue (billed):** total gross revenue - deductions (for example: taxes, refunds, write-offs)	
RVN_DAY4	**Condition Definitions**: **Usage Revenue**: Revenue coming from service usage (pay per use) and calls (pay on event, duration and/or volume). The sources will be VOICE CALL DAY, DATA USAGE DAY, VAS USAGE DAY (and not *SUPPLEMENTARY SERVICE USAGE DAY*).: The field TOT_BLLD_AMT or BLLD_AMT shall be used when PLN_TYP='Prepaid' (and day corresponds). The postpaid Revenue shall come from DWD_INVC_DAY: USG_RVN_BLLD when it is independent of Product Offering and Product Spec (or this number could be used as X-check). It shall come from DWB_INVC_ITEM when the product Offering and/or the Product Spec is required. **Expired Revenue**: Revenue that comes from prepaid expired amount. It comes from either DWB_EVT_BAL_IMPC. Or DWD_ACCT_BAL_MO.EXPRD_AMT (sum) where ACCT_BAL_TYP_CD is associated with a monetary UOM (for the same product offering and product spec). One also needs to subtract all the expired amounts of DWD_RVN_DAY of the previous DAY of the current month.	
RVN_DAY5	**Roaming Revenue**: Roaming Revenue is considered for Roaming events on CSP's network, whose paying party is an external operator. It assumes that any event from WIRELESS ROAMING EVENT **only contain such events**. It is also expected RMNG_EXTRNL_OPRTR_KEY or EXTRNL_OPRTR_KEY cannot be both null. For Billed Revenue, Invoices must be of Type "RMNG STTLMT" (Roaming Settlement). Roaming domestically (MVNO) is allowed.	
RVN_DAY6	**Transfer**: A transfer (Account, Agreement, Product Subscription) is a change of ownership and is recognized as such **if and only if**: The "Code" of the entity is not changed The Agreement and its term are not changed. The Product Offering associated is not immediately changed. Only the ownership changes The Status Reason Code is associated with Transfer. There is no time without ownership.	STAT_CD like '2%' (New) and SUBSTR(STAT_CD,1,1) in ('1','2') (old) and new.eff_from_dt -old.eff_to_dt<=1s
RVN_DAY7	**Geographic County** corresponds to the County of the Primary Address of the Customer when defined.	

Table 7–67 (Cont.) DWD_RVN_DAY Business Rules

Rule ID	Description	Comment
RVN_DAY8	**Organization Business Unit, Sales Channel and Sales Rep** : correspond to the respective Sales Channel and Sales Rep directly associated with the Product Offering and Product Spec of the corresponding product subscription. If unclear or undefined, one shall take the last one associated with the corresponding **Customer** (in the customer table).	
RVN_DAY9	**Cost Center** is the Cost Center associated with the Organization Business Unit considered (if uniquely defined). Keep it 'UNKNOWN' otherwise.	
RVN_DAY10	**Product Offering Level and Product Spec Level:** (follow-up of **RVN_DAY1**) When both set to 0, both PRODUCT SPEC and PRODUCT OFFERING should be defined (normally not unknown, although unknown will be accepted). If one of the level is set to 1 and the other to 0, it collects the statistics according to the entity whose level is set to 0, independently of the other. The other will be forced to be 'unknown'. If both levels are set to 1, it collects the global statistics independently of Product Offering or Product Spec. Both are forced to be 'unknown'. This is necessary to allow the calculation of some KPIs. See also *CNT_DAY10* rule.	OBSOLETE since the facts are sum-able.
RVN_DAY11	**Late Usage or Late CDRs**: Usage that come later shall be taken into account. Hence, the LOAD DATE should be used as part of the criteria to consider a row or not. But the REVENUE associated shall be attributed to the right day, corresponding to the Start Day of the event. This rule could be changed for very late delay (> 3 full months). **Those revenues should be excluded**.	
RVN_DAY12	For Prepaid, we assume that the Sale Channel and Sales Rep information are associated with the Prepaid subscription. These 2 fields will be then used.	
RVN_DAY13	Due to the way to feed DWD_RVN_DAY (for performance), there will be 4 rows per combination of key columns: 1 for postpaid and 3 for Prepaid. As a consequence, - **Empty revenue columns shall be filled with 0 and not with null**. - One always needs to **sum those 4 rows** (per fact) to have the final numbers for a given key combination.	
RVN_DAY14	Most Key columns will come from the information out of the Product Subscription. In particular, it is expected that the following columns of PRODUCT SUBSCRIPTION are filled (in bold, those critical): Organization Business Unit Code Channel Code (preferred, priority) or Campaign Channel Code **Product Offering Code (!)** **Product Spec Code (!)** **Customer Code** (or at least Account Code).	In DWR_PROD_SBRP, check that the following columns are filled: ORG_BUS_UNIT_KEY CHNL_KEY or CMPGN_ CHNL_KEY PROD_OFR_KEY PROD_SPEC_KEY CUST_KEY or ACCT_KEY.
RVN_DAY15	Plan Type is either 'Postpaid' or 'Prepaid'. Hybrid product offering cannot be considered and will be ignored (at least for billed usage).	If PLN_TYP not in ('Prepaid', 'Postpaid'), all billed usage related columns will be 0.
RVN_DAY16	Roaming Revenue concerns only revenue that comes from Roaming TAP OUT file. TAP IN file are NOT considered as part of Roaming Revenue (since they are rather a cost as such - and they should appear in DWD_VOI_CALL_DAY with the final billed amount to the customer).	This is for RMNG_RVN_ UBLLD.
RVN_DAY17	Interconnect Revenue only concerns revenue from passing traffic. The A & B numbers (if defined at all) are NOT belonging to the Service Provider. Interconnect Traffic will be recognized by a non null revenue associated with INTERCONNECTION field. **Cost will be ignored here.** It is assumed that **all interconnection traffic will be stored into VOICE CALL DAY (whatever the type of call).**	INTCONN_RVN>0 is sufficient as criteria.

Table 7–67 (Cont.) DWD_RVN_DAY Business Rules

Rule ID	Description	Comment
RVN_DAY18	SALES REPRESENTATIVE and COST CENTER columns are currently ignored.	They could be filled as customization if one adds this column in DWD_VOI_CALL_DAY, DWD_DATA_USG_DAY and DWD_VAS_USG_DAY.
RVN_DAY19	For all USAGE, Billing Status Type code successful (that is, BILLED) is explicitly required.	BLLG_STAT_TYP_CD='SUCC' is expected. The "CASE WHEN" conditions could be all removed (to win time) if one assumes that all usage events stored at the derived layer will always have the same BILLING STATUS TYPE CODE (assumed to be 'SUCC' only).
RVN_DAY20	It is assumed that the ORGANIZATION BUSINESS UNIT (as well as others like GEO COUNTY CODE or CUSTOMER TYPE CODE) stored in the derived USAGE tables (VOICE CALL DAY; DATA USAGE DAY and VAS USAGE DAY) are identical to the one set in the invoice.	There is an explicit full join with these conditions between invoice and the usage tables. If this is not the case, the USAGE related statement must be modified to force the ORGANIZATION BUSINESS UNIT there to be equal to one of the invoice
RVN_DAY21	For Prepaid, it is assumed that an individual CUSTOMER (dummy or not) is defined for each prepaid account. This customer information should contain a dummy customer type (the one associated with the targeted customer for this product offer maybe) and address (maybe the one of the Organization Business Unit where it was bought). The organization business unit comes from the account.	This information shall be used to join with the usage information.
RVN_DAY22	Information out of the invoice will only be considered when the billing date of the invoice is between the ETL (Time) Parameters. The status of the invoice is ignored. This implies two approximations: -The invoice is complete at billing date and will NOT be corrected or updated after that date (or this update will not be considered such as the invoice status change, the partial or full payment after billing date, and so on), -Past invoices added at a later time in Oracle Communications Data Model will NOT be considered Note: The status of the invoice is ignored only for the selection of the invoice and invoice items. However, the association to an INVOICED (BILLED) or UNBILLED column is based on the status invoice: -INVOICED when the 1st character of Invoice Status Code is between 2 and 5 (both limits included) -Unbilled in all other cases	As customization, one could deal with LOAD DATE and INVOICE CODE to find whether an invoice has already been considered or not. But this could be a heavy job to do it correctly
RVN_DAY23	Discount Revenue: On top of being positive (and to be subtracted from all revenues), it is assumed that only DISC_AMT and related columns have to be considered. This also mean that if an invoice item is of type DISCOUNT (INVOICE ITEM TYP CD like 6%), only DISC_AMT (and related) should then be filled, and not CHRG_AMT.	
RVN_DAY24	Invoice items associated with recurring fees will be associated with only price type code for forward fees (Price_TYP_CD like '11%') or arrear fees ((Price_TYP_CD like '12%'). Any other combination is currently excluded from the REVENUE DAY derived table.	
RVN_DAY25	Amounts will only be considered out of Account Balances that are of type "REGULAR" ("RGLR").	

RVN_DAY_IMPC_RSN_CD can have the values and meaning shown in Table 7–68.

Table 7–68 DWD_RVN_DAY Lookup Values

Table	Row	Code	Description
DWR_CUST	STAT_CD	'1%'	Pending Activation
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'15%'	Pre-Activated
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'2%'	Active
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'3%'	Suspended
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'4%'	Deactivated / Terminated
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	STAT_CD	'5%'	Cancelled
DWR_ACCT			
DWR_AGRMNT			
DWR_PROD_SBRP			
DWR_ACCS_MTHD			
DWR_CUST	PRMRY_STAT_RSN_CD	'%'	
DWR_ACCT	ACCT_STAT_RSN_CD		
DWB_AGRMNT_STAT	AGRMNT_STAT_RSN_CD		
DWR_PROD_SBRP	PROD_SBRP_STAT_RSN_CD		
DWB_ACCS_MTHD_STAT_HIST	ACCS_MTHD_STAT_RSN_CD		
DWR_CUST	PRMRY_STAT_RSN_CD	'%'	Voluntary Status Change
DWR_ACCT	ACCT_STAT_RSN_CD		
DWB_AGRMNT_STAT	AGRMNT_STAT_RSN_CD		
DWR_PROD_SBRP	PROD_SBRP_STAT_RSN_CD		
DWB_ACCS_MTHD_STAT_HIST	ACCS_MTHD_STAT_RSN_CD		
DWR_CUST	PRMRY_STAT_RSN_CD	'%'	Involuntary Status Change
DWR_ACCT	ACCT_STAT_RSN_CD		
DWB_AGRMNT_STAT	AGRMNT_STAT_RSN_CD		
DWR_PROD_SBRP	PROD_SBRP_STAT_RSN_CD		
DWB_ACCS_MTHD_STAT_HIST	ACCS_MTHD_STAT_RSN_CD		

DWD_SPLMNTR_SRVC_USG_PKG Package

Populate the table DWD_SPLMNTR_SRVC_USG. For more information, see SUPPLEMENTARY SERVICE USAGE DRVD.

Table 7–69 DWD_SPLMNTR_SRVC_USG Package

Source Table Name
DWB_INVC
DWB_INVC_ITEM
DWR_ACCS_MTHD
DWR_BSNS_MO
DWR_CUST
DWR_DAY
DWR_PROD_OFR
DWR_SPLMNTR_SRVC

DWD_SRVC_PRBLM_DAY_PKG Package

Populate target table DWD_SRVC_PB_DAY. For more information, see SERVICE PROBLEM DAY DRVD.

Table 7–70 DWD_SRVC_PBRLM_DAY Package Source Tables

Source Table Name
DWB_CUST_FLD_SRVC_ACTVTY
DWB_EVT_PRTY_INTRACN
DWB_PRBLM_LOC
DWB_SVRC_PRBLM
DWR_ACCT
DWR_CUST
DWR_DAY
DWR_PROD_SBRP

Table 7–71 DWD_SRVC_PBRLM_DAY Business Rules

Rule ID	Description	Comment
SRVCPB1	Customers appearing in this table are only customers where an SLA has been specifically signed. Customers without SLA shall NOT be considered, even if they are impacted by an outage	Only check Customers from table DWR_SRVC_LVL_AGRMNT. All others will be ignored (set as 'Unknown')
SRVC_PB2	Authorized Outage Time is to be stored is assumed to one of the Term/Condition associated with an SLA. In case of absence of "Authorized Outage Time" as condition of the SLA, the default should be the 5 9's (99,999% of time). That is 31536 seconds (8h 45Mns, 36 s) per year (365 days). Default Period is considered to be the current year	AGRMNT_TERM_TYP_CD = "AUTH_OUTG_TIME";
SRVC_PB3	The link between the SLA and the condition "Authorized Outage Time" assumes that the PROD_SPEC_KEY is defined in both the SLA item and the Agreement Term entities.	
SRVC_PB4	For SLA, only current rows will be considered. There will not be any other "time" or "Status" constraint.	CURR_IND='Y' for SLA Item

Table 7–71 (Cont.) DWD_SRVC_PBRLM_DAY Business Rules

Rule ID	Description	Comment
SRVC_PB5	The Intra ETL runs once a day only. (Otherwise, the SLA_BRK_IND may not be reliable - it needs specific adaptation of the code and some assumptions or known (fixed) period value for SLA time outage condition). In any case, the SLA_BRK_IND indicates whether a given problem breaks by itself an SLA. It does not mean that the sum of Problems may not break the SLA	
SRVC_PB6	When summary is for the month, the derived table holds the updated statistic and status of the current month up to the previous full day. Otherwise (daily), it holds the latest statistic of the given day.	
SRVC_PB7	It is assumed that all services linked to a subscription are defined (or reachable) in DWR_SRVC only	This is critical to make the link. One cannot really use Customer Facing service or Resource Facing Service (as anyway both are usually affected simultaneously).
SRVC_PB8	Remote Customer Support is only considered through calls. It could be extended to include emails, chats or web portal interaction (to the online help)	Only DWB_EVT_PRTY_INTRACN_CALL will be used
SRVC_PB9	On Site Support is not necessarily at customer site. It counts the number of activities at any site during the time period concerned independently on the status of the activity. On Site Customer Support must occur at the customer address available in the CUSTOMER entity	
SRVC_PB10	The time spent onsite is by default read directly from the CUSTOMER FIELD SERVICE ACTIVITY table. It is either the Total Time Spent On Site field (default) or the total activity duration (End-Start).	
SRVC_PB11	The SLA Unit of Measure corresponds to the period on which the SLA is to be measured. Even if there is an agreement on the maximum number of outages, only terms related to duration shall be considered here. In case several agreement terms of type duration apply, the lowest Agreement Term code shall be taken.	It excludes the case Agreement Term = '91%', but consider any '90%'. If both are present, use '9000' by default (or MIN (Agreement term type Code).

DWD_STORE_EFFNCY_DAY_PKG Package

Populate target table DWD_STORE_EFFNCY_DAY. For more information, see STORE EFFICIENCY DAY DRVD.

Table 7–72 DWD_STORE_EFFNCY_DAY Package Source Tables

Source Table Name
DWB_EVT
DWB_EVT_ASGN
DWB_EVT_PRTY_INTRACN
DWR_ADDR_LOC
DWR_DAY
DWR_ORG_BSNS_UNIT

Table 7–73 DWD_STORE_EFFNCY_DAY Business Rules

Rule ID	Description
STORE1	One shall limit the analysis to STOREs. This means that event Party Interaction Visit will only be considered if the Organization Business Unit corresponds to a store. The fact that one links explicitly with ORGANIZATION BUSINESS UNIT HOURS DAY (which is assumed to be filled for each store and for each day any of the store opens) applies automatically this constraint.
STORE2	A transaction is assumed to occur when the EVENT PARTY INTERACTION VISIT is linked to any other Event through EVENT ASSIGNMENT. It is independent of the reason of this assignment. It simply means something must have occurred.
STORE3	Customer waiting time is the duration between the time the customer enters the shop/queue until the time he is attended by any of the shop representative. Note that it cannot be recorded if one does not know when the customer enters the shop
STORE4	The time the customer enters the queue and is attended by any shop representative and his entry is closed is called as the transaction time. The average transaction time is calculated on all transaction times over a given period.
STORE5	Numbers of customers who enter the queue but do not wait for long and disappear are also counted along with the number of employees in the shop.
STORE6	By default the Sale amount shall correspond to the General Ledger Revenue associated to this visit.

Table 7–74 DWD_STORE_EFFNCY_DAY Lookup Values

Table	Code
DWL_ORG_BUS_UNIT_TYP	STORE

DWD_VAS_SBRP_QCK_SUMM_PKG Package

Populate target table DWD_VAS_SBRP_QCK_SUMM. For more information, see VAS SUBSCRIPTION QUICK SUMMARY DRVD.

Table 7–75 DWD_VAS_SBRP_QCK_SUMM Package Source Tables

Source Table Name
DWR_BSNS_MO
DWR_CUST
DWR_PROD_SBRP
DWR_PROD_SPEC

DWD_VAS_USG_DAY_PKG Package

Populate target table DWD_VAS_USG_DAY. For more information, see VAS USAGE DAY DRVD.

Table 7–76 DWD_VAS_USG_DAY Package Source Tables

Source Table Name
DWB_ISP_USG_EVT
DWB_MMS_EVT
DWB_SMS_EVT
DWB_UDR_EVT
DWB_UMS_EVT
DWB_WRLS_CALL_EVT
DWR_ACCT
DWR_ADDR_LOC

Table 7–76 (Cont.) DWD_VAS_USG_DAY Package Source Tables

Source Table Name
DWR_CUST
DWR_DAY
DWR_PROD_OFR
DWR_VAL_ADD_SRVC

Table 7–77 DWD_VAS_USG_DAY Business Rules

Rule ID	Description
VASUSG1	The main sources for this table are the reference table VAS (and mailbox) and ▪ ISP Event ▪ UMS Event ▪ Wireless Call event (just in case) ▪ Rated UDR EVENT (if all else fails) It is assumed that there is no duplicates between Events of any tables (a given event - with a specific event code - is in only one the tables).
VASUSG2	When any wireless event is considered, the resource associated to the CDR is supposed to be the BTS, from which a CELL SITE can be obtained.
VASUSG3	Free Data Size and Free duration is only counted if the event is totally free (Charged Amount is 0).

Table 7–78 DWD_VAS_USG_DAY Lookup Values

Table	Description
DWL_DVRT_RTRV_TYP	-5000
	DVRT
	RTRV

DWD_VOI_CALL_DAY_PKG Package

Populate target table DWD_VOI_CALL_DAY. For more information, see VOICE CALL DAY DRVD.

Table 7–79 DWD_VOI_CALL_DAY Package Source Tables

Source Table Name
DWB_FIXED_LN_CALL_EVT
DWB_WRLS_CALL_EVT
DWR_ACCT
DWR_ADDR_LOC
DWR_CUST
DWR_DAY
DWR_PROD_OFR
DWR_SRVC

Table 7–80 DWD_VOI_CALL_DAY Business Rules

Rule ID	Description
VOICE1	The CDRs taken into account have to be present from: ■ Wireless Call Event ■ Fixed Line Call Event All other tables are excluded.
VOICE2	The Domestic Indicator cannot be set when Local Indicator is set. Those are mutually exclusive.

8

Oracle Communications Data Model OLAP Model Dimensions

This chapter of Oracle Communications Data Model Reference describes the Data Flow between fact tables and dimension tables of Oracle Communications Data Model relational part to target materialize views and cubes to support the module Oracle Communications Data Model OLAP.

This chapter includes the following sections:

- Introduction to OLAP Architecture
- Oracle Communications Data Model OLAP Dimensions

For more information, see Chapter 9, "Oracle Communications Data Model OLAP Model Cubes".

Introduction to OLAP Architecture

Oracle Data Warehouse for Communications (Oracle Communications Data Model Relational) contains the lowest level CDR details, low level combination of base tables and the summary, average, and so on, of Base and Derived data. Oracle Communications Data Model Relational was developed in a relational database.

General Process to Populate the OLAP Module in Oracle Communications Data Model

Oracle Communications Data Model `ocdm_sys` schema does the following:

- Directly maps the leaf level data from the relational table/mv into the OLAP cube.
- Cube organized materialized views represent the cube to SQL-based applications as materialized views that you can use for both refresh and query rewrite. With Query Re-write enabled, Oracle will automatically re-write SQL queries targeted against relational tables. to use the Cube-Organized Materialized View. To use this feature the OLAP cubes and relational components are in a single schema (`ocdm_sys`).
- All cubes are available for the end user SQL based Query Tool access through CUBE_TABLE based SQL Views, which are created and maintained automatically during the cube build/update process.
- Cubes are built from level 0 DWA materialized views or DWB/DWD tables (which, when a date is present, usually means at the month level).

Using SQL to access the cubes and dimensions is a significant feature of Oracle OLAP because it enables reporting tools that only generate SQL to use all of the powerful features of the analytic workspace. In Oracle Database 11g this is achieved by the use

of the CUBE_TABLE function that extracts multidimensional data from a cube in an analytic workspace and presents it to the relational SQL engine in the form of a two dimensional table, such as, a set of rows and columns. It provides a mapping between the cube in the analytic workspace and the rows and columns that the SQL sees.

Query Rewrite to Cube Organized Materialized Views

Oracle Communications Data Model uses SQL to query the relational base tables and the optimizer transparently translates the SQL to access either the table materialized views or the cube materialized views (and hence the analytic workspace cubes and dimensions) depending upon which provides the better performance. This allows all of the benefits of the analytic workspace to be easily available to any product using regular SQL.

Oracle Communications Data Model OLAP Dimensions

The dimensions section describes the detail information for all the dimensions. Each dimension includes the following information:

- Levels
- Hierarchies
- Attributes and Attribute mappings

Table 8–1 lists the dimensions.

Table 8–1 Dimensions

Dimensions
Account Refund Reason: ARRSN
Bank Direct Debit Channel: MOBJTYP
Billing Cycle: BCYCL
Churn Reason: CRNRSN
Collection Agency: CAGNCY
Commission Type: CMTYP
Cost Center: CCK
Currency: CRNCY
Customer: CUST
Customer Segment: CSGMNT
Customer Type: CUSTYP
Debt Aging Band: DAB
Geography: GEO
Handset Model: HSMDL
Invoice Adjustment Reason: IARSN
Invoice Adjustment Type: IATYP
Organization: ORG
Payment Channel: PCK
Payment Method Type: PMTYP

Table 8–1 (Cont.) Dimensions

Dimensions
Payment Transaction Type: PTTYP
Peak Offpeak Time: POPT
Product: PROD
Product Offer: POFR
Promotion: PRMTN
Resource: RSCEK
Sales Channel: SLCHNL
Sales Channel Representative: SLR
SKU Item: SKUITEM
Time: TIME
Time Day: TIME_DAY
Time Slot: TSLT

Account Refund Reason: ARRSN

This dimension keeps all the information for the reason why this refund occurs.

Table 8–2 Account Refund Reason (ARRSN) Levels and Hierarchies

Level	Description	Account Refund Reason Hierarchy (HARRSN)
TARRSN	Total Account Refund Reason	TARRSN
ARRSN	Account Refund Reason	ARRSN

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–3 Account Refund Reason Long Description Attribute Mapping

Level	Mapping (Physical Column)
TARRSN	"Total Account Refund Reason"
ARRSN	DWL_ACCT_RFND_RSN.ACCT_RFND_RSN_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–4 Account Refund Reason Short Description Attribute Mapping

Level	Mapping (Physical Column)
TARRSN	"Total Account Refund Reason"
ARRSN	DWL_ACCT_RFND_RSN.ACCT_RFND_RSN_CD

Bank Direct Debit Channel: MOBJTYP

This dimension keeps all the information of media object type.

Table 8–5 Bank Direct Debit Channel (MOBJTYP) Levels and Hierarchies

Level	Description	Bank Direct Debit Channel Hierarchy (HMOBJTYP)
TMOBJTYP	Total bank direct debit channel	TMOBJTYP
MOBJTYP	Bank direct debit channel	MOBJTYP

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–6 Bank Direct Debit Channel Long Description Attribute Mapping

Level	Mapping (Physical Column)
TMOBJTYP	"Total Bank Direct Debit Channel"
MOBJTYP	DWL_MEDIA_OBJ_TYP.MEDIA_OBJ_TYP_DSCR

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–7 Bank Direct Debit Channel Long Description Attribute Mapping

Level	Mapping (Physical Column)
TMOBJTYP	"Total Bank Direct Debit Channel"
MOBJTYP	DWL_MEDIA_OBJ_TYP.MEDIA_OBJ_TYP_NAME

Billing Cycle: BCYCL

This dimension keeps all the information of the billing cycle.

Table 8–8 Billing Cycle (BCYCL) Levels and Hierarchies

Level	Description	Billing Cycle Hierarchy (HBCYCL)
TBCYCL	Totalbilling cycle	TBCYCL
BCYCL	Billing cycle	BCYCL

This dimension keeps all the information of the billing cycle.

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–9 Billing Cycle Long Description Attribute Mapping

Level	Mapping (Physical Column)
	"Total Billing Cycle"
	DWR_BLLG_CYCL.BLLG_CYCL_DSCR

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–10 Billing Cycle Long Description Attribute Mapping

Level	Mapping (Physical Column)
	DWR_BLLG_CYCL.BLLG_CYCL_NAME

Churn Reason: CRNRSN

This dimension keeps all the information of the Churn Reason. This dimension stores information regarding the reason for subscriber churn. This information is required for churn analysis.

Table 8–11 Churn Reason (CRNRSN) Levels and Hierarchies

Level	Description	Churn Reason Hierarchy (HCRNRSN)
TCRNRSN	Total Churn Reason	TCRNRSN
CRNRSN	Churn Reason	CRNRSN

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–12 Churn Reason Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCRNRSN	"Total Churn Reason"
CRNRSN	DWL_CHRN_RSN.CHRN_RSN_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–13 Churn Reason Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCRNRSN	"Total Churn Reason"
CRNRSN	DWL_CHRN_RSN.CHRN_RSN_CD

Collection Agency: CAGNCY

This dimension keeps all the information of the collection agency. Commission type is all type of commissions to the sales representatives.

Table 8–14 Collection Agency (CAGNCY) Levels and Hierarchies

Level	Description	Collection Agency Hierarchy (HCAGNCY)
TCAGNCY	Total Collection Agency	TCAGNCY
CAGNCY	Collection Agency	CAGNCY

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–15 Collection Agency Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCAGNCY	"Total Collection Agency"
CAGNCY	DWR_COLLCTN_AGNCY.PRTY_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–16 Collection Agency Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCAGNCY	"Total Collection Agency"

Table 8–16 (Cont.) Collection Agency Short Description Attribute Mapping

Level	Mapping (Physical Column)
CAGNCY	DWR_COLLCTN_AGNCY.COLLCTN_AGNCY_CD

Attribute Name: Agency Manager(MGR_NAME)

Table 8–17 Collection Agency Agency Manager Attribute Mapping

Level	Mapping (Physical Column)
TCAGNCY	
CAGNCY	DWR_COLLCTN_AGNCY.MGR_NAME

Attribute Name: Domestic Indicator(DMSTC_IND)

Table 8–18 Collection Agency Domestic Indicator Attribute Mapping

Level	Mapping (Physical Column)
TCAGNCY	
CAGNCY	DWR_COLLCTN_AGNCY.DMSTC_IND

Commission Type: CMTYP

This dimension keeps all the information of the commission type. Commission type is all type of commissions to the sales representatives.

Table 8–19 Commission Type (CMTYP) Levels and Hierarchies

Level	Description	Commission Type Hierarchy (HCMTYP)
TCMTYP	Total Commission Type	TCMTYP
CMTYP	Commission Type	CMTYP

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–20 Commission Type Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCMTYP	"Total Commission Type"
CMTYP	DWL_CMISN_TYP.CMISN_TYP_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–21 Commission Type Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCMTYP	"Total Commission Type"
CMTYP	DWL_CMISN_TYP.CMISN_TYP_NAME

Cost Center: CCK

This dimension keeps all the information of the cost center.

Table 8–22 Cost Center (CCK) Levels and Hierarchies

Level	Description	Customer Hierarchy (HCCK)
TCCK	Totalcost center	TCCK
CCK	Cost center	CCK

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–23 Cost Center Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCCK	"TotalCost Center
CCK	DWR_COST_CNTR.COST_CNTR_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–24 Cost Center Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCCK	"TotalCost Center"
CCK	DWR_COST_CNTR.COST_CNTR_CD

Currency: CRNCY

This dimension keeps all the information of the different currencies.

Table 8–25 Currency (CRNCY) Levels and Hierarchies

Level	Description	Currency Hierarchy (HCRNCY)
TCRNCY	Total currency	TCRNCY
CRNCY	Currency	CRNCY

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–26 Currency Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCRNCY	"Total Currency"
CRNCY	DWL_CRNCY.CRNCY_DSCR

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–27 Currency Type Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCRNCY	"Total Currency"
CRNCY	DWL_CRNCY.CRNCY_NAME

Customer: CUST

This dimension keeps all the information of individual customers.

Table 8–28 Customer (CUST) Levels and Hierarchies

Level	Description	Customer Hierarchy (HCUST)
TCUST	Total customer	TCUST
CUSTYP	Customer Type	CUSTYP
ICUST	Individual Customer	ICUST

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–29 Customer Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCUST	"Total Customer"
CUSTYP	DWL_CUST_TYP.CUST_TYP_NAME
ICUST	DWR_CUST.NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–30 Customer Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCUST	"Total Customer"
CUSTYP	DWL_CUST_TYP.CUST_TYP_CD
ICUST	DWR_CUST.CUST_CD

Customer Segment: CSGMNT

This dimension keeps all the information of the Customer Segment. The Segments table holds details of all marketing segments. A segment identifies distinct groupings of customers or accounts with similar characteristics. The segments are typically used in marketing campaigns.

Table 8–31 Customer Segment (CSGMNT) Levels and Hierarchies

Level	Description	Customer Segment Hierarchy (HCSGMNT)
TCSGMNT	Total Customer Segment	TCSGMNT
CSGMNT	Customer Segment	CSGMNT

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–32 Customer Segment Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCSGMNT	"Total Customer Segment"
CSGMNT	DWR_CUST_SGMNT.CUST_SGMNT_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–33 Customer Segment Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCSGMNT	"Total Customer Segment"
CSGMNT	DWR_CUST_SGMNT.CUST_SGMNT_CD

Customer Type: CUSTYP

This dimension keeps all the information of customer type

Table 8–34 Customer Type (CUSTYP) Levels and Hierarchies

Level	Description	Customer Type Hierarchy (HCUSTYP)
TCUSTYP	Total Customer Type	TCUSTYP
CUSTYP	Customer Type	CUSTYP

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–35 Customer Type Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCUSTYP	"Total Customer Type"
CUSTYP	DWL_CUST_TYP.CUST_TYP_DESC

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–36 Customer Type Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCUSTYP	"Total Customer Type"
CUSTYP	DWL_CUST_TYP.CUST_TYP_NAME

Debt Aging Band: DAB

This dimension keeps all the information of debt aging band. There are customers who have not paid or partially paid one or more bills. This is called as Aging for the bill payment. Based on the age of unpaid or partial paid bill those amounts are put into different buckets for each customer.

Table 8–37 Debt Aging Band (DAB) Levels and Hierarchies

Level	Description	Debt Aging Band Hierarchy (HDAB)
TDAB	Total Aging Band	TDAB
DAB	Aging Band	DAB

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–38 Debt Aging Band Long Description Attribute Mapping

Level	Mapping (Physical Column)
TDAB	"Total Aging Band"
DAB	DWL_DEBT_AGNG_BND.DEBT_AGNG_BND_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–39 Debt Aging Band Short Description Attribute Mapping

Level	Mapping (Physical Column)
TDAB	"Total Aging Band"
DAB	DWL_DEBT_AGNG_BND.DEBT_AGNG_BND_CD

Geography: GEO

This dimension keeps all the geography information.

Table 8–40 Geography (GEO) Levels and Hierarchies

Level	Description	Geography Hierarchy (HGEO)
TGEO	Total Geography	TGEO
WORLD	World	WORLD
REGION	Region	REGION
SUB_REGION	Sub Region	SUB_REGION
COUNTRY	Country	COUNTRY
STATE	State	STATE
CITY	City	CITY
COUNTY	County	COUNTY

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–41 Geography Long Description Attribute Mapping

Level	Mapping (Physical Column)
TGEO	"Total Geography"
WORLD	DWR_GEO_WORLD.WORLD_NAME
REGION	DWR_GEO_RGN.RGN_NAME
SUB_REGION	DWR_GEO_SBRGN.SB_RGN_NAME
COUNTRY	DWR_GEO_CNTRY.CNTRY_NAME
STATE	DWR_GEO_STATE.STATE_NAME
CITY	DWR_GEO_CITY.CITY_NAME
COUNTY	DWR_GEO_CNTY.CNTY_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–42 Geography Short Description Attribute Mapping

Level	Mapping (Physical Column)
TGEO	"Total Geography"
WORLD	DWR_GEO_WORLD.WORLD_CD
REGION	DWR_GEO_RGN.RGN_CD
SUB_REGION	DWR_GEO_SBRGN.SB_RGN_CD

Table 8–42 (Cont.) Geography Short Description Attribute Mapping

Level	Mapping (Physical Column)
COUNTRY	DWR_GEO_CNTRY.CNTRY_CD
STATE	DWR_GEO_STATE.STATE_CD
CITY	DWR_GEO_CITY.CITY_CD
COUNTY	DWR_GEO_CNTY.CNTY_CD

Attribute Name: County Name(CNTY_NAME)

Table 8–43 Geography County Name Attribute Mapping

Level	Mapping (Physical Column)
TGEO	
WORLD	
REGION	
SUB_REGION	
COUNTRY	
STATE	
CITY	
COUNTY	DWR_GEO_CNTY.CNTY_NAME

Attribute Name: County Code(CNTY_CD)

Table 8–44 Geography County Code Attribute Mapping

Level	Mapping (Physical Column)
TGEO	
WORLD	
REGION	
SUB_REGION	
COUNTRY	
STATE	
CITY	
COUNTY	DWR_GEO_CNTY.CNTY_CD

Handset Model: HSMDL

This dimension keeps all the information about models of handsets.

Table 8–45 Handset Model (HSMDL) Levels and Hierarchies

Level	Description	Handset Model Hierarchy (HHSMDL)
THSMDL	Total Handset Model	THSMDL
HSMDL	Handset Model	HSMDL

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–46 Handset Model Long Description Attribute Mapping

Level	Mapping (Physical Column)
THSMDL	"Total Handset Model"
HSMDL	DWR_HNDST_MDL.HNDST_MDL_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–47 Handset Model Short Description Attribute Mapping

Level	Mapping (Physical Column)
THSMDL	"Total Handset Model"
HSMDL	DWR_HNDST_MDL.HNDST_MDL_CD

Invoice Adjustment Reason: IARSN

This dimension keeps all the information of invoice adjustment reason. The reason why the adjustment was put on the invoice.

Table 8–48 Invoice Adjustment Reason (IARSN) Levels and Hierarchies

Level	Description	Invoice Adjustment Reason Hierarchy (HIARSN)
TIARSN	Total Invoice Adjustment Reason	TIARSN
IARSN	Invoice Adjustment Reason	IARSN

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–49 Invoice Adjustment Reason Long Description Attribute Mapping

Level	Mapping (Physical Column)
TIARSN	"Total Invoice Adjustment Reason"
IARSN	DWL_INVC_ADJ_RSN.INVC_ADJ_RSN_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–50 Invoice Adjustment Reason Short Description Attribute Mapping

Level	Mapping (Physical Column)
TIARSN	"Total Invoice Adjustment Reason"
IARSN	DWL_INVC_ADJ_RSN.INVC_ADJ_RSN_CD

Invoice Adjustment Type: IATYP

This dimension keeps all the information of invoice adjustment type. The categories of adjustment applied to a Customer Invoices.

Table 8–51 Invoice Adjustment Type (IATYP) Levels and Hierarchies

Level	Description	Invoice Adjustment Type Hierarchy (HIATYP)
TIATYP	Total invoice adjustment type	TIATYP
IATYP	Invoice adjustment type	IATYP

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–52 Invoice Adjustment Type Long Description Attribute Mapping

Level	Mapping (Physical Column)
TIATYP	"Total Invoice Adjustment Type"
IATYP	DWL_INVC_ADJ_TYP.INVC_ADJ_TYP_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–53 Invoice Adjustment Type Short Description Attribute Mapping

Level	Mapping (Physical Column)
TIATYP	"Total Invoice Adjustment Type"
IATYP	DWL_INVC_ADJ_TYP.INVC_ADJ_TYP_CD

Organization: ORG

This dimension keeps all the information of organization

Default Hierarchy: HCHAIN

Table 8–54 Organization (ORG) Levels and Hierarchies

Level	Description	Corporation Hierarchy (HCORPORATE)	Banner Hierarchy (HBANNER)	Chain Hierarchy (HCHAIN)
TORG	Organization Total	TORG	TORG	TORG
CORPORATION	Head Office or Parent Company.	CORPORATION	CORPORATION	CORPORATION
COMPANY	Company, it includes branch company or subsidiary company.			COMPANY
DIVISION	The parent level of business unit. It is to organize the organization business units according to their functional role, for example, call center, warehouse, and so on.	DIVISION		
BANNER	Holds the information about different organization banners under which product or service are sold.		BANNER	
CHAIN	Chain of outlets through which the organization conducts business.			CHAIN
AREA	Areas within a organization chain.			AREA

Table 8–54 (Cont.) Organization (ORG) Levels and Hierarchies

Level	Description	Corporation Hierarchy (HCORPORATE)	Banner Hierarchy (HBANNER)	Chain Hierarchy (HCHAIN)
REGION	Holds region within a company, chain area.			REGION
DISTRICT	Holds districts within a company, chain, area, region.			DISTRICT
BU	Organization Business Unit contains 2 kinds of information -store and branch company. In the higher level is branch company.Some customer cannot belong to a particular store, in that case, they are associated with a branch company. So branch company are put in organization business unit level.	BU	BU	BU

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–55 Organization Long Description Attribute Mapping

Level	Mapping (Physical Column)
TORG	'Total Organization'
CORPORATION	DWR_ORG_RGN.RGN_NAME
COMPANY	DWR_ORG_CMPNY.CMPNY_NAME
DIVISION	DWR_ORG_DIV.DIV_NAME
BANNER	DWR_ORG_BNR.BNR_NAME
CHAIN	DWR_ORG_CHAIN.CHAIN_NAME
AREA	DWR_ORG_AREA.AREA_NAME
REGION	DWR_ORG_RGN.RGN_NAME
DISTRICT	DWR_ORG_RGN.RGN_NAME
BU	DWR_ORG_BSNS_UNIT.PRTY_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–56 Organization Short Description Attribute Mapping

Level	Mapping (Physical Column)
TORG	
CORPORATION	DWR_ORG_CRPRT.CRPRT_CD
COMPANY	DWR_ORG_CMPNY.CMPNY_CD
DIVISION	DWR_ORG_DIV.DIV_CD
BANNER	DWR_ORG_BNR.BNR_CD
CHAIN	DWR_ORG_CHAIN.CHAIN_CD
AREA	DWR_ORG_AREA.AREA_CD
REGION	DWR_ORG_RGN.RGN_CD

Table 8–56 (Cont.) Organization Short Description Attribute Mapping

Level	Mapping (Physical Column)
DISTRICT	DWR_ORG_DSTRCT.DSTRCT_CD
BU	DWR_ORG_BSNS_UNIT.PRTY_CD

Attribute Name: Store Name (STORE_NAME)

Table 8–57 Organization Store Name Attribute Mapping

Level	Mapping (Physical Column)
TORG	
CORPORATION	
COMPANY	
DIVISION	
BANNER	
CHAIN	
AREA	
REGION	
DISTRICT	
BU	DWR_ORG_BSNS_UNIT.PRTY_NAME

Attribute Name: Store Description (STORE_DESC)

Table 8–58 Organization Store Description Attribute Mapping

Level	Mapping (Physical Column)
TORG	
CORPORATION	
COMPANY	
DIVISION	
BANNER	
CHAIN	
AREA	
REGION	
DISTRICT	
BU	DWR_ORG_BSNS_UNIT.PRTY_DSCR

Attribute Name: Store Manager (STORE_MANAGER)

Table 8–59 Organization Store Manager Attribute Mapping

Level	Mapping (Physical Column)
TORG	
CORPORATION	
COMPANY	

Table 8–59 (Cont.) Organization Store Manager Attribute Mapping

Level	Mapping (Physical Column)
DIVISION	
BANNER	
CHAIN	
AREA	
REGION	
DISTRICT	
BU	DWR_ORG_BSNS_UNIT.MGR_NAME

Attribute Name: Store Open Date (STORE_OPEN_DT)

Table 8–60 Organization Store Open Date Attribute Mapping

Level	Mapping (Physical Column)
TORG	
CORPORATION	
COMPANY	
DIVISION	
BANNER	
CHAIN	
AREA	
REGION	
DISTRICT	
BU	DWR_ORG_BSNS_UNIT.VALID_STRT_DT

Attribute Name: Store Close Date (STORE_CLOSE_DT)

Table 8–61 Organization Store Close Date Attribute Mapping

Level	Mapping (Physical Column)
TORG	
CORPORATION	
COMPANY	
DIVISION	
BANNER	
CHAIN	
AREA	
REGION	
DISTRICT	
BU	DWR_ORG_BSNS_UNIT.VALID_END_DT

Payment Channel: PCK

This dimension keeps all the information all the information of the payment channel.

Table 8–62 Payment Channel (PCK) Levels and Hierarchies

Level	Description	Payment Channel Hierarchy (HPCK)
TPCK	Totalpayment channel	TPCK
PCK	Payment channel	PCK

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–63 Payment Channel Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPCK	"TotalPayment Channel"
PCK	DWR_PYMT_CHNL.CHNL_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–64 Payment Channel Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPCK	"TotalPayment Channel"
PCK	DWR_PYMT_CHNL.CHNL_KEY

Payment Method Type: PMTYP

This dimension keeps all the information of the payment method type. Payment method type describes the different methods by which payments may be made. Customers can pay their bills, deposits, other charges by different modes of payment such as: Cash, Check, Inter-bank transfer, Postal order, Wire transfer, Voucher.

Table 8–65 Payment Method Type (PMTYP) Levels and Hierarchies

Level	Description	Payment Method Type Hierarchy (HPMTYP)
TPMTYP	Total Payment Method Type	TPMTYP
PMTYP	Payment Method Type	PMTYP

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–66 Payment Method Type Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPMTYP	"Total Payment Method Type"
PMTYP	DWL_PYMT_MTHD_TYP.PYMT_MTHD_TYP_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–67 Payment Method Type Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPMTYP	"Total Account Payment Method Status Type"
PMTYP	DWL_PYMT_MTHD_TYP.PYMT_MTHD_TYP_CD

Payment Transaction Type: PTTYP

This dimension keeps all the information of the type of transaction.

Table 8–68 Payment Transaction Type (PTTYP) Levels and Hierarchies

Level	Description	Payment Transaction Type Hierarchy (HPTTYP)
TPTTYP	Total Payment Transaction Type	TPTTYP
PTTYP	Payment transaction type	PTTYP

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–69 Payment Transaction Type Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPTTYP	"Total Payment Transaction Type"
PTTYP	DWL_PYMT_TRX_TYP.PYMT_TRX_TYP_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–70 Payment Transaction Type Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPTTYP	"Total Payment Transaction Type"
PTTYP	DWL_PYMT_TRX_TYP. PYMT_TRX_TYP_CD

Peak Offpeak Time: POPT

This dimension keeps all the information of the peak and offpeak time. Based on the usage or traffic on the network each day is divided into various time slots such as the time when the usage is highest is called as the peak time slot

Table 8–71 Peak Offpeak Time (POPT) Levels and Hierarchies

Level	Description	Peak Offpeak Time Hierarchy (HPOPT)
TPOPT	Total Peak Offpeak Time	TPOPT
POPT	Peak Offpeak Time	POPT

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–72 Peak Offpeak Time Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPOPT	"Total Peak Offpeak Time"
POPT	DWL_PK_OFPK_TIME.PK_OFPK_TIME_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–73 Peak Offpeak Time Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPOPT	"Total Peak Offpeak Time"
POPT	DWL_PK_OFPK_TIME.PK_OFPK_TIME_CD

Attribute Name: Peak Offpeak Start Time(PK_OFPK_STRT)

Table 8–74 Peak Offpeak Time Peak Offpeak Start Time Attribute Mapping

Level	Mapping (Physical Column)
TPOPT	
POPT	DWL_PK_OFPK_TIME.PK_OFPK_STRT

Attribute Name: Peak Offpeak End Time(PK_OFPK_END)

Table 8–75 Peak Offpeak Time Peak Offpeak End Time Attribute Mapping

Level	Mapping (Physical Column)
TPOPT	
POPT	DWL_PK_OFPK_TIME.PK_OFPK_END

Attribute Name: Holiday Indicator (HOLIDY_IND)

Table 8–76 Peak Offpeak Time Holiday Indicator Attribute Mapping

Level	Mapping (Physical Column)
TPOPT	
POPT	DWL_PK_OFPK_TIME.HOLIDY_IND

Attribute Name: Weekend Indicator (WEEKEND_IND)

Table 8–77 Peak Offpeak Time Weekend Indicator Attribute Mapping

Level	Mapping (Physical Column)
TPOPT	
POPT	DWL_PK_OFPK_TIME.WKEND_IND

Product: PROD

This dimension keeps all the information of products, services and value added features offering by the telecommunication company.

Table 8–78 Product (PROD) Levels and Hierarchies

Level	Description	Product Hierarchy (HPROD)
TPROD	Total Product	TPROD
PRODTYP	Type of the product	PRODTYP
PROD	The product provided by the carrier.	PROD

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–79 Product Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPROD	"Total Product"
PRODTYP	DWL_PROD_SPEC_TYP.PROD_SPEC_TYP_NAME
PROD	DWR_PROD_SPEC.PROD_SPEC_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–80 Product Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPROD	"Total Product"
PRODTYP	DWL_PROD_SPEC_TYP.PROD_SPEC_TYP_CD
PROD	DWR_PROD_SPEC.PROD_SPEC_CD

Attribute Name: IN Platform Key(IN_PLTFRM_KEY)

Id for IN Platform

Table 8–81 Product IN Platform Key Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PRODTYP	
PROD	DWR_PROD_SPEC.IN_PLTFRM_KEY

Product Offer: POFR

This dimension keeps all the information of the product offer.

Table 8–82 Product Offer (ARRSN) Levels and Hierarchies

Level	Description	Product Hierarchy (HPOFR)
TPOFR	Totalproduct offer	TPOFR
POFRTYPE	Product offer type	POFRTYPE
POFR	Product offer	POFR

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–83 Product Offer Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPOFR	Total Product Offer
POFRTYPE	DWL_PROD_OFR_TYP.PROD_OFR_TYP_NAME
POFR	DWL_PROD_OFR_TYP.PROD_OFR_TYP_CD

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–84 Product Offer Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPOFR	Total Product Offer'
POFRTYPE	DWR_CALL_CNTR. CALL_CNTR_CD
POFR	DWR_PROD_OFR.PROD_OFR_CD

Attribute Name: Joint Program Indicator (JP_IND)

Table 8–85 Product Offer Joint Program Indicator Attribute Mapping

Level	Mapping (Physical Column)
TPOFR	
POFRTYPE	
POFR	DWR_PROD_OFR.JNT_PROG_IND

Attribute Name: Loyalty Program Indicator (LP_IND)

Table 8–86 Product Offer Loyalty Program Indicator Attribute Mapping

Level	Mapping (Physical Column)
TPOFR	
POFRTYPE	
POFR	DWR_PROD_OFR.LYLTY_PROG_IND

Attribute Name: New Customer Only Indicator (NC_IND)

Table 8–87 Product Offer New Customer Only Indicator Attribute Mapping

Level	Mapping (Physical Column)
TPOFR	
POFRTYPE	
POFR	DWR_PROD_OFR.NEW_CUST_ONLY_IND

Attribute Name: VAS Indicator (VAS_IND)

Table 8–88 Product Offer VAS Indicator Attribute Mapping

Level	Mapping (Physical Column)
TCCNTR	
CCNTR	
CCAT	DWR_PROD_OFR.VAS_IND

Promotion: PRMTN

This dimension keeps all the information of the promotion.

Table 8–89 Promotion (PRMTN) Levels and Hierarchies

Level	Description	Promotion Hierarchy (HPRMTN)
TPRMTN	Total promotion	TPRMTN
PRMTNTYP	Promotion type	PRMTNTYP
CCCSTYP	Promotion	CCCSTYP

Table 8–90 Promotion (HCMPGN) Levels and Hierarchies

Level	Description	Promotion Hierarchy (HCMPGN)
TPRMTN	Total promotion	TPRMTN
CMPGN	Campaign	CMPGN
PRMTN	Promotion	PRMTN

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–91 Promotion Long Description Attribute Mapping

Level	Mapping (Physical Column)
TCCC	"Total Promotion"
PRMTNTYP	DWL_PRMTN_TYP.PRMTN_TYP_NAME
CMPGN	DWR_CMPGN.CMPGN_DSCR
PRMTN	DWR_PRMTN.PRMTN_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–92 Promotion Short Description Attribute Mapping

Level	Mapping (Physical Column)
TCCC	"Total Promotion"
PRMTNTYP	DWL_PRMTN_TYP.PRMTN_TYP_CD
CMPGN	DWR_CMPGN.CMPGN_CD
PRMTN	DWR_PRMTN.PRMTN_CD

Resource: RSCEK

This dimension keeps all the information for resources.

Table 8–93 Resource (RSCEK) Levels and Hierarchies

Level	Description	Resource Hierarchy (HRSCEK)
TRSCEK	Total resource	TRSCEK
RSCEK	Resource	RSCEK

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–94 Resource Long Description Attribute Mapping

Level	Mapping (Physical Column)
TRSCEK	"Total Resourc"

Table 8–94 (Cont.) Resource Long Description Attribute Mapping

Level	Mapping (Physical Column)
RSCEK	DWR_RSCE.RSCE_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–95 Resource Short Description Attribute Mapping

Level	Mapping (Physical Column)
TRSCEK	"Total Resource"
RSCEK	DWR_RSCE.RSCE_CD

Sales Channel: SLCHNL

This dimension keeps all the information of Sales Channel.

Table 8–96 Sales Channel (SLCHNL) Levels and Hierarchies

Level	Description	Sales Channel Hierarchy (HSLCHNL)
TSLCHNL	Total Sales Channel	TSLCHNL
SLCHNL	Sales Channel	SLCHNL

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–97 Sales Channel Long Description Attribute Mapping

Level	Mapping (Physical Column)
TSLCHNL	"Total Sales Channel"
SLCHNL	DWR_SL_CHNL.CHNL_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–98 Sales Channel Short Description Attribute Mapping

Level	Mapping (Physical Column)
TSLCHNL	"Total Sales Channel"
SLCHNL	DWR_SL_CHNL.CHNL_CD

Attribute Name: Capacity Quantity (CPCTY_QTY):

The number of transaction that a Channel can handle, at a point of time.

Table 8–99 Sales Channel Capacity Quantity Attribute Mapping

Level	Mapping (Physical Column)
TSLCHNL	
SLCHNL	DWR_SL_CHNL.CPCTY_QTY

Sales Channel Representative: SLR

This dimension keeps all the information for the sales channel representative.

Table 8–100 Sales Channel Representative (SLR) Levels and Hierarchies

Level	Description	Sales Channel Representative Hierarchy (HRSCEK)
TSLR	Total sales channelrepresentative	TSLR
SLR	Sales channelrepresentive	SLR

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–101 Sales Channel Representative Long Description Attribute Mapping

Level	Mapping (Physical Column)
TSLR	Total Sale Channel Representative'
SLR	DWR_SL_CHNL_RPRSTV.SL_CHNL_RPRSTV_CD

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–102 Sales Channel Representative Short Description Attribute Mapping

Level	Mapping (Physical Column)
TSLR	Total Sale Channel Representative'
SLR	DWR_SL_CHNL_RPRSTV.SL_CHNL_RPRSTV_CD

SKU Item: SKUITEM

This dimension stores the products as SKU items used in Oracle Communications Data Model.

Default Hierarchy:

Table 8–103 Product Hierarchy and Cluster Hierarchy

Level	Description	Product Hierarchy (HPROD)	Product Cluster Hierarchy (HPCLUSTER)
TPROD	Total Product	TPROD	TPROD
PCLUSTER	Product Cluster		PCLUSTER
COMPANY	Company	COMPANY	
DIVISION	Division	DIVISION	
GROUP[1]	Group	GROUP	
DEPT	Department	DEPT	
CLASS	Class	CLASS	
SUBCLASS	Sub Class	SUBCLASS	
ITEM	Item	ITEM	ITEM
SKU	SKU Item	SKU	SKU

[1] For Oracle Communications Data Model for OLAP 11g, this level is named GROUP. However, since GROUP is a restricted keyword for Oracle OLAP 11g metadata, in Oracle Communications Data Model for OLAP 11g, this level has been renamed to GROUP1. The Level Description continues to be Group in both versions.

Attribute Name: Long Description (LONG_DESCRIPTION)

Table 8–104 Product Long Description Attribute Mapping

Level	Mapping (Physical Column)
TPROD	'Total Product'
PCLUSTER	DWR_ITEM_CLSTR.ITEM_CLSTR_DESC
COMPANY	DWR_ITEM_CMPNY.ITEM_CMPNY_NAME
DIVISION	DWR_ITEM_DIV.ITEM_DIV_NAME
GROUP	DWR_ITEM_GRP.ITEM_GRP_NAME
DEPT	DWR_ITEM_DEPT.ITEM_DEPT_NAME
CLASS	DWR_ITEM_CLASS.ITEM_CLASS_NAME
SUBCLASS	DWR_ITEM_SBC.SBC_NAME
ITEM	DWR_ITEM.ITEM_DESC
SKU	DWR_SKU_ITEM.SKU_ITEM_DESC

Attribute Name: Short Description (SHORT_DESCRIPTION)

Table 8–105 Product Short Description Attribute Mapping

Level	Mapping (Physical Column)
TPROD	'Total Product'
PCLUSTER	DWR_ITEM_CLSTR.ITEM_CLSTR_CD
COMPANY	DWR_ITEM_CMPNY.ITEM_CMPNY_CD
DIVISION	DWR_ITEM_DIV.ITEM_DIV_CD
GROUP	DWR_ITEM_GRP.ITEM_GRP_CD
DEPT	DWR_ITEM_DEPT.ITEM_DEPT_CD
CLASS	DWR_ITEM_CLASS.ITEM_CLASS_CD
SUBCLASS	DWR_ITEM_SBC.SBC_CD
ITEM	DWR_ITEM.ITEM_NAME
SKU	DWR_SKU_ITEM.SKU_ITEM_NAME

Attribute Name: Buyer Code (BUYER_CODE)

Table 8–106 Product Buyer Code Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	DWR_ITEM_DIV.ITEM_DIV_BYR_CD
GROUP	DWR_ITEM_GRP.ITEM_GRP_BYR_CD
DEPT	DWR_ITEM_DEPT.ITEM_DEPT_BYR_CD
CLASS	DWR_ITEM_CLASS.ITEM_CLASS_BYR_CD
SUBCLASS	DWR_ITEM_SBC.SBC_BYR_CD
ITEM	
SKU	

Attribute Name: Buyer Name (BUYER_NAME)

Table 8–107 Product Buyer Name Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	DWR_ITEM_DIV.ITEM_DIV_BYR_NAME
GROUP	DWR_ITEM_GRP.ITEM_GRP_BYR_NAME
DEPT	DWR_ITEM_DEPT.ITEM_DEPT_BYR_NAME
CLASS	DWR_ITEM_CLASS.ITEM_CLASS_BYR_NAME
SUBCLASS	DWR_ITEM_SBC.SBC_BYR_NAME
ITEM	
SKU	

Attribute Name: Item Conv Type Code (ITEM_CONV_TYPE_CD)

Table 8–108 Product Item Conv Type Code Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	
GROUP	
DEPT	
CLASS	
SUBCLASS	
ITEM	DWR_ITEM.CONVBL_TYP_CD
SKU	

Attribute Name: Item Discount Indicator (ITEM_DISC_IND)

Table 8–109 Product Item Discount Indicator Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	
GROUP	
DEPT	
CLASS	
SUBCLASS	
ITEM	DWR_ITEM.DISC_IND
SKU	

Attribute Name: Item Display Unit Type Code (ITEM_DISP_UNIT_TYP_CD)

Table 8–110 Product Item Display Unit Type Code Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	
GROUP	
DEPT	
CLASS	
SUBCLASS	
ITEM	DWR_ITEM.DSPLY_UNIT_TYP_CD
SKU	

Attribute Name: Item Number (ITEM_NBR)

Table 8–111 Product Item Number Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	
GROUP	
DEPT	
CLASS	
SUBCLASS	
ITEM	DWR_ITEM.ITEM_NBR
SKU	

Attribute Name: Merchandiser Code (MERC_CODE)

Table 8–112 Product Merchandiser Code Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	DWR_ITEM_DIV.ITEM_DIV_MRCHNDSR_CD
GROUP	DWR_ITEM_GRP.ITEM_GRP_MRCHNDSR_CD
DEPT	DWR_ITEM_DEPT.DEPT_MRCHNDSR_CD
CLASS	DWR_ITEM_CLASS.ITEM_CLASS_MRCHNDSR_CD
SUBCLASS	DWR_ITEM_SBC.SBC_MRCHNDSR_CD
ITEM	
SKU	

Attribute Name: Merchandiser Name (MERC_NAME)

Table 8–113 Product Merchandiser Name Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	DWR_ITEM_DIV.ITEM_DIV_MRCHNDSR_NAME
GROUP	DWR_ITEM_GRP.ITEM_GRP_MRCHNDSR_NAME
DEPT	DWR_ITEM_DEPT.DEPT_MRCHNDSR_NAME
CLASS	DWR_ITEM_CLASS.ITEM_CLASS_MRCHNDSR_NAME
SUBCLASS	DWR_ITEM_SBC.SBC_MRCHNDSR_NAME
ITEM	
SKU	

Attribute Name: SKU Item Number (SKU_ITEM_NBR)

Table 8–114 Product SKU Item Number Attribute Mapping

Level	Mapping (Physical Column)
TPROD	
PCLUSTER	
COMPANY	
DIVISION	
GROUP	
DEPT	
CLASS	
SUBCLASS	
ITEM	
SKU	DWR_SKU_ITEM.SKU_ITEM_NBR

Time: TIME

This dimension keeps all the information of time.

Table 8–115 Time (TIME) Levels and Hierarchies

Level	Description	Time Business Hierarchy (HTBSNS)
TTIME	Time Total	TTIME
BSNS_YR	Business Year	BSNS_YR
BSNS_HLF_YR	Business Half Year	BSNS_HLF_YR
BSNS_QTR	Business Quarter	BSNS_QTR
BSNS_MO	Business Month	BSNS_MO

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–116 Time Long Description Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TIME_TOT.TOT_DSCR

Table 8–116 (Cont.) Time Long Description Attribute Mapping

Level	Mapping (Physical Column)
BSNS_YR	DWR_BSNS_YR.BSNS_YR_DSCR
BSNS_HLF_YR	DWR_BSNS_HLF_YR.BSNS_HLF_YR_DSCR
BSNS_QTR	DWR_BSNS_QTR.BSNS_QTR_DSCR
BSNS_MO	DWR_BSNS_MO.BSNS_MO_DSCR

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–117 Time Short Description Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TIME_TOT.TOT_CD
BSNS_YR	DWR_BSNS_YR.BSNS_YR_CD
BSNS_HLF_YR	DWR_BSNS_HLF_YR.BSNS_HLF_YR_CD
BSNS_QTR	DWR_BSNS_QTR.BSNS_QTR_CD
BSNS_MO	DWR_BSNS_MO.BSNS_MO_CD

Attribute Name: Time Number(TIME_NBR)

Table 8–118 Time Time Number Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TIME_TOT.TOT_NBR
BSNS_YR	DWR_BSNS_YR.BSNS_YR_NBR
BSNS_HLF_YR	DWR_BSNS_HLF_YR.BSNS_HLF_YR_NBR
BSNS_QTR	DWR_BSNS_QTR.BSNS_QTR_NBR
BSNS_MO	DWR_BSNS_MO.BSNS_MO_NBR

Attribute Name: Time Span(TIME_SPAN)

Table 8–119 Time Time Span Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TIME_TOT.TOT_TIMESPN
BSNS_YR	DWR_BSNS_YR.BSNS_YR_TIMESPN
BSNS_HLF_YR	DWR_BSNS_HLF_YR.BSNS_HLF_YR_TIMESPN
BSNS_QTR	DWR_BSNS_QTR.BSNS_QTR_TIMESPN
BSNS_MO	DWR_BSNS_MO.BSNS_MO_TIMESPN

Attribute Name: Start Date(START_DATE)

Table 8–120 Time Start Date Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TIME_TOT.TOT_STRT_DT
BSNS_YR	DWR_BSNS_YR.BSNS_YR_STRT_DT

Table 8–120 (Cont.) Time Start Date Attribute Mapping

Level	Mapping (Physical Column)
BSNS_HLF_YR	DWR_BSNS_HLF_YR.BSNS_HLF_YR_STRT_DT
BSNS_QTR	DWR_BSNS_QTR.BSNS_QTR_ STRT_DT
BSNS_MO	DWR_BSNS_MO.BSNS_MO_STRT_DT

Attribute Name: End Date(END_DATE)

Table 8–121 Time End Date Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TIME_TOT.TOT_END_DT
BSNS_YR	DWR_BSNS_YR.BSNS_YR_END_DT
BSNS_HLF_YR	DWR_BSNS_HLF_YR.BSNS_HLF_YR_END_DT
BSNS_QTR	DWR_BSNS_QTR.BSNS_QTR_END_DT
BSNS_MO	DWR_BSNS_MO.BSNS_MO_END_DT

Time Day: TIME_DAY

This dimension stores Time related data used in Oracle Communications Data Model.

Default Hierarchy: HTBSNS

Table 8–122 Time Levels and Hierarchies

Level	Description	Time Business Hierarchy (HTBSNS)	Time Calendar Hierarchy (HTCLNDR)	Time Calendar Week Hierarchy (HTCLNDRWK)
TTIME	Total Time	TTIME	TTIME	TTIME
CLNDR_YR	Calendar Year		CLNDR_YR	
CLNDR_HLF_YR	Calendar Half Year		CLNDR_HLF_YR	
CLNDR_QTR	Calendar Quarter		CLNDR_QTR	
CLNDR_MO	Calendar Month		CLNDR_MO	
CLNDR_HLF_MO	Calendar Half Month		CLNDR_HLF_MO	
CLNDR_WK	Calendar Week		CLNDR_WK	CLNDR_WK
BSNS_YR	Business Year	BSNS_YR		
BSNS_HLF_YR	Business Half Year	BSNS_HLF_YR		
BSNS_QTR	Business Quarter	BSNS_QTR		
BSNS_MO	Business Month	BSNS_MO		
BSNS_HLF_MO	Business Half Month	BSNS_HLF_MO		
BSNS_WK	Business Week	BSNS_WK		
DAY	Day	DAY	DAY	DAY

Attribute Name: Long Description (LONG_DESCRIPTION)

Table 8–123 Time Long Description Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TOT_TIME.TOT_DSCR
CLNDR_YR	DWR_CLNDR_YR.YR_DSCR
CLNDR_HLF_YR	DWR_CLNDR_HLF_YR.HLF_YR_DSCR
CLNDR_QTR	DWR_CLNDR_QTR.QTR_DSCR
CLNDR_MO	DWR_CLNDR_MO.MO_DSCR
CLNDR_HLF_MO	DWR_CLNDR_HLF_MO.HLF_MO_DSCR
CLNDR_WK	DWR_CLNDR_WK.WK_DSCR
BSNS_YR	DWR_BSNS_YR.YR_DSCR
BSNS_HLF_YR	DWR_BSNS_HLF_YR.HLF_YR_DSCR
BSNS_QTR	DWR_BSNS_QTR.QTR_DSCR
BSNS_MO	DWR_BSNS_MO.MO_DSCR
BSNS_HLF_MO	DWR_BSNS_HLF_MO.HLF_MO_DSCR
BSNS_WK	DWR_BSNS_WK.WK_DSCR
DAY	DWR_DAY.BSNS_DT_DSCR

Attribute Name: Short Description (SHORT_DESCRIPTION)

Table 8–124 Time Short Description Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TOT_TIME.TOT_CD
CLNDR_YR	DWR_CLNDR_YR.YR_CD
CLNDR_HLF_YR	DWR_CLNDR_HLF_YR.HLF_YR_CD
CLNDR_QTR	DWR_CLNDR_QTR.QTR_CD
CLNDR_MO	DWR_CLNDR_MO.MO_CD
CLNDR_HLF_MO	DWR_CLNDR_HLF_MO.HLF_MO_CD
CLNDR_WK	DWR_CLNDR_WK.WK_CD
BSNS_YR	DWR_BSNS_YR.YR_CD
BSNS_HLF_YR	DWR_BSNS_HLF_YR.HLF_YR_CD
BSNS_QTR	DWR_BSNS_QTR.QTR_CD
BSNS_MO	DWR_BSNS_MO.MO_CD
BSNS_HLF_MO	DWR_BSNS_HLF_MO.HLF_MO_CD
BSNS_WK	DWR_BSNS_WK.WK_CD
DAY	DWR_DAY.BSNS_DT_DSCR

Attribute Name: End Date (END_DATE)

Table 8–125 Time End Date Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TOT_TIME.END_DATE
CLNDR_YR	DWR_CLNDR_YR.YR_END_DT
CLNDR_HLF_YR	DWR_CLNDR_HLF_YR.HLF_YR_END_DT
CLNDR_QTR	DWR_CLNDR_QTR.QTR_END_DT
CLNDR_MO	DWR_CLNDR_MO.MO_END_DT

Table 8–125 (Cont.) Time End Date Attribute Mapping

Level	Mapping (Physical Column)
CLNDR_HLF_MO	DWR_CLNDR_HLF_MO.HLF_MO_END_DT
CLNDR_WK	DWR_CLNDR_WK.WK_END_DT
BSNS_YR	DWR_BSNS_YR.YR_END_DT
BSNS_HLF_YR	DWR_BSNS_HLF_YR.HLF_YR_END_DT
BSNS_QTR	DWR_BSNS_QTR.QTR_END_DT
BSNS_MO	DWR_BSNS_MO.MO_END_DT
BSNS_HLF_MO	DWR_BSNS_HLF_MO.HLF_MO_END_DT
BSNS_WK	DWR_BSNS_WK.WK_END_DT
DAY	DWR_DAY.BSNS_END_DT

Attribute Name: Time Span (TIME_SPAN)

Table 8–126 Time Time Span Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TOT_TIME.TOT_TIME_SPAN
CLNDR_YR	DWR_CLNDR_YR.YR_TIMESPN
CLNDR_HLF_YR	DWR_CLNDR_HLF_YR.HLF_YR_TIMESPN
CLNDR_QTR	DWR_CLNDR_QTR.QTR_TIMESPN
CLNDR_MO	DWR_CLNDR_MO.MO_TIMESPN
CLNDR_HLF_MO	DWR_CLNDR_HLF_MO.HLF_MO_TIMESPN
CLNDR_WK	DWR_CLNDR_WK.WK_TIMESPN
BSNS_YR	DWR_BSNS_YR.YR_TIMESPN
BSNS_HLF_YR	DWR_BSNS_HLF_YR.HLF_YR_TIMESPN
BSNS_QTR	DWR_BSNS_QTR.QTR_TIMESPN
BSNS_MO	DWR_BSNS_MO.MO_TIMESPN
BSNS_HLF_MO	DWR_BSNS_HLF_MO.HLF_MO_TIMESPN
BSNS_WK	DWR_BSNS_WK.WK_TIMESPN
DAY	DWR_DAY.BSNS_DAY_TIMESPAN

Attribute Name: Business Holiday Indicator (BSNS_HLDY_IND)

Table 8–127 Time Business Holiday Indicator Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	
CLNDR_HLF_YR	
CLNDR_QTR	
CLNDR_MO	
CLNDR_HLF_MO	
CLNDR_WK	
BSNS_YR	
BSNS_HLF_YR	
BSNS_QTR	

Table 8–127 (Cont.) Time Business Holiday Indicator Attribute Mapping

Level	Mapping (Physical Column)
BSNS_MO	
BSNS_HLF_MO	
BSNS_WK	
DAY	DWR_DAY.BSNS_HOLIDY_IND

Attribute Name: Business Weekend Indicator (BSNS_WEND_IND)

Table 8–128 Time Business Weekend Indicator Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	
CLNDR_HLF_YR	
CLNDR_QTR	
CLNDR_MO	
CLNDR_HLF_MO	
CLNDR_WK	
BSNS_YR	
BSNS_HLF_YR	
BSNS_QTR	
BSNS_MO	
BSNS_HLF_MO	
BSNS_WK	
DAY	DWR_DAY.BSNS_WEEKEND_IND

Attribute Name: Business Working Day Indicator (BSNS_WRK_IND)

Table 8–129 Time Business Working Day Indicator Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	
CLNDR_HLF_YR	
CLNDR_QTR	
CLNDR_MO	
CLNDR_HLF_MO	
CLNDR_WK	
BSNS_YR	
BSNS_HLF_YR	
BSNS_QTR	
BSNS_MO	
BSNS_HLF_MO	
BSNS_WK	
DAY	DWR_DAY.BSNS_WRKING_DAY_IND

Attribute Name: Number (NBR)

Table 8–130 Time Number Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	TO_NUMBER(DWR_CLNDR_YR.YR_NBR)
CLNDR_HLF_YR	TO_NUMBER(DWR_CLNDR_HLF_YR.HLF_YR_NBR)
CLNDR_QTR	TO_NUMBER(DWR_CLNDR_QTR.QTR_NBR)
CLNDR_MO	TO_NUMBER(DWR_CLNDR_MO.MO_NBR)
CLNDR_HLF_MO	TO_NUMBER(DWR_CLNDR_HLF_MO.HLF_MO_NBR)
CLNDR_WK	TO_NUMBER(DWR_CLNDR_WK.WK_NBR)
BSNS_YR	TO_NUMBER(DWR_BSNS_YR.YR_NBR)
BSNS_HLF_YR	TO_NUMBER(DWR_BSNS_HLF_YR.HLF_YR_NBR)
BSNS_QTR	TO_NUMBER(DWR_BSNS_QTR.QTR_NBR)
BSNS_MO	TO_NUMBER(DWR_BSNS_MO.MO_NBR)
BSNS_HLF_MO	TO_NUMBER(DWR_BSNS_HLF_MO.HLF_MO_NBR)
BSNS_WK	TO_NUMBER(DWR_BSNS_WK.WK_NBR)
DAY	TO_NUMBER(DWR_DAY.BSNS_DAY_OF_YR)

Attribute Name: Calendar Holiday Indicator (CLNDR_HLDY_IND)

Table 8–131 Time Calendar Holiday Indicator Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	
CLNDR_HLF_YR	
CLNDR_QTR	
CLNDR_MO	
CLNDR_HLF_MO	
CLNDR_WK	
BSNS_YR	
BSNS_HLF_YR	
BSNS_QTR	
BSNS_MO	
BSNS_HLF_MO	
BSNS_WK	
DAY	DWR_DAY.CLNDR_HOLIDY_IND

Attribute Name: Calendar Weekend Indicator (CLNDR_WEND_IND)

Table 8–132 Time Calendar Weekend Indicator Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	
CLNDR_HLF_YR	
CLNDR_QTR	

Table 8–132 (Cont.) Time Calendar Weekend Indicator Attribute Mapping

Level	Mapping (Physical Column)
CLNDR_MO	
CLNDR_HLF_MO	
CLNDR_WK	
BSNS_YR	
BSNS_HLF_YR	
BSNS_QTR	
BSNS_MO	
BSNS_HLF_MO	
BSNS_WK	
DAY	DWR_DAY.CLNDR_WEEKEND_IND

Attribute Name: Calendar Working Day Indicator (CLNDR_WRK_IND)

Table 8–133 Time Calendar Working Day Indicator Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	
CLNDR_HLF_YR	
CLNDR_QTR	
CLNDR_MO	
CLNDR_HLF_MO	
CLNDR_WK	
BSNS_YR	
BSNS_HLF_YR	
BSNS_QTR	
BSNS_MO	
BSNS_HLF_MO	
BSNS_WK	
DAY	DWR_DAY.CLNDR_WRKING_DAY_IND

Attribute Name: Identifier (ID)

Table 8–134 Time Identifier Attribute Mapping

Level	Mapping (Physical Column)
TTIME	DWR_TOT_TIME.TOT_KEY
CLNDR_YR	DWR_CLNDR_YR.CLNDR_YR_KEY
CLNDR_HLF_YR	DWR_CLNDR_HLF_YR.CLNDR_HLF_YR_KEY
CLNDR_QTR	DWR_CLNDR_QTR.CLNDR_QTR_KEY
CLNDR_MO	DWR_CLNDR_MO.CLNDR_MO_KEY
CLNDR_HLF_MO	DWR_CLNDR_HLF_MO.CLNDR_HLF_MO_KEY
CLNDR_WK	DWR_CLNDR_WK.CLNDR_WK_KEY
BSNS_YR	DWR_BSNS_YR.BSNS_YR_KEY
BSNS_HLF_YR	DWR_BSNS_HLF_YR.HLF_YR_KEY

Table 8–134 (Cont.) Time Identifier Attribute Mapping

Level	Mapping (Physical Column)
BSNS_QTR	DWR_BSNS_QTR.QTR_KEY
BSNS_MO	DWR_BSNS_MO.MO_KEY
BSNS_HLF_MO	DWR_BSNS_HLF_MO.HLF_MO_KEY
BSNS_WK	DWR_BSNS_WK.WK_KEY
DAY	DWR_DAY.DAY_KEY

Attribute Name: Start Date (START_DATE)

Table 8–135 Time Start Date Attribute Mapping

Level	Mapping (Physical Column)
TTIME	
CLNDR_YR	DWR_CLNDR_YR.YR_STRT_DT
CLNDR_HLF_YR	DWR_CLNDR_HLF_YR.HLF_YR_STRT_DT
CLNDR_QTR	DWR_CLNDR_QTR.QTR_STRT_DT
CLNDR_MO	DWR_CLNDR_MO.MO_STRT_DT
CLNDR_HLF_MO	DWR_CLNDR_HLF_MO.HLF_MO_STRT_DT
CLNDR_WK	DWR_CLNDR_WK.WK_STRT_DT
BSNS_YR	DWR_BSNS_YR.YR_STRT_DT
BSNS_HLF_YR	DWR_BSNS_HLF_YR.HLF_YR_STRT_DT
BSNS_QTR	DWR_BSNS_QTR.QTR_STRT_DT
BSNS_MO	DWR_BSNS_MO.MO_STRT_DT
BSNS_HLF_MO	DWR_BSNS_HLF_MO.HLF_MO_STRT_DT
BSNS_WK	DWR_BSNS_WK.WK_STRT_DT
DAY	DWR_DAY.BSNS_STRT_DT

Time Slot: TSLT

This dimension keeps information for Time Slot.

Default Hierarchy: HTSLT

Table 8–136 Time Slot (TSLT) Levels and Hierarchies

Level	Description	Time Slot Hierarchy (HTSLT)
TTSLT	Total Time Slot	TTSLT
TSLT	Time Slot	TSLT

Attribute Name: Long Description(LONG_DESCRIPTION)

Table 8–137 Time Slot Long Description Attribute Mapping

Level	Mapping (Physical Column)
TTSLT	"Total Time Slot"
TSLT	DWR_TIME_SLT.TIME_SLT_NAME

Attribute Name: Short Description(SHORT_DESCRIPTION)

Table 8–138 Time Slot Short Description Attribute Mapping

Level	Mapping (Physical Column)
TTSLT	"Total Time Slot"
TSLT	DWR_TIME_SLT.TIME_SLT_CD

9

Oracle Communications Data Model OLAP Model Cubes

This chapter of Oracle Communications Data Model Reference describes the Data Flow between fact tables and dimension tables of Oracle Communications Data Model relational part to target materialize views and cubes to support the module Oracle Communications Data Model OLAP.

This chapter includes the following section:

- Oracle Communications Data Model OLAP Cubes

For more information, see Chapter 8, "Oracle Communications Data Model OLAP Model Dimensions".

> **Note:** All materialized views underlying the OLAP cubes are disabled by default. To enable the cube materialized views, you must follow the steps outlined in *Oracle Communications Data Model Implementation and Operations Guide*.

Oracle Communications Data Model OLAP Cubes

For each cube, each section includes the following cube information:

- Description
- Dimensions (leaf load level and load sequence)
- Base Measures with Physical Mapping and Description
- Derived Measure with the Logical Name and the Calculations

Table 9–1 lists the Oracle Communications Data Model OLAP cubes.

Table 9–1 OLAP Cubes

Cubes
Account Debt Cube: ADM
Account Payment Cube: APM
Agreement Cube: AGRMNT
Cell Statistic Cube: CSM
Cell Statistic Forecast Cube: CSM_FCST
Commission Cube: CMSN

Table 9–1 (Cont.) OLAP Cubes

Cubes
Cost Organizational Cube: COM
Cost Product Offering Cube: CCM
Customer Acquisition Cube: ACM
Customer Acquisition Forecast Cube: ACM_FCST
Customer Acquisition Forecast Statistic Cube: ACM_FCST_STTSTC
Inventory Cube: INV
Inventory Forecast Cube: INV_FCST
Inventory Forecast Statistic Cube: INV_FCST_STTSTC
Invoice Adjustment Cube: IAM
Invoice Customer Type Cube: INVCM
Revenue Cube: RVN
Revenue Forecast Cube: RVN_FCST
Sales Cube: SLS
Sales Forecast Cube: SLS_FCST
Sales Forecast Statistic Cube: SLS_FCST_STTSTC
Subscriber Churn Statistic Cube: CHRN

Note: Oracle Communications Data Model includes base measures with format such as, *XXXX*1. These base measures are intended for internal; Oracle Communications Data Model uses these base measures to calculate EOP_*XXXX* (end of period value). Do not uses these measures for reporting.

Account Debt Cube: ADM

The summarized daily status of customer debt for each customer type.

Physical Name: ADM

Dimensions and Load Level

The fact data of Account Debt Cube will be loaded from the relational schema at these dimension levels (leaf level).

Table 9–2 Account Debt Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Sales Channel	Sales Channel
Sales Channel Representative	Sales Channel Representative

Table 9–2 (Cont.) Account Debt Cube Dimensions and Load Level

Dimension Name	Load level
Organization	Business Unit
Geography	County
Product offer	product offer

Aggregation Order/Operator

The Account Debt Cube is aggregated by the order and operators on dimensions shown in Table 9–3.

Table 9–3 Account Debt Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Sales Channel	Sum	3
Sales Channel Representative	Sum	4
Product offer	Sum	5
Organization	Sum	6
Geography	Sum	7

Base Measures

Table 9–4 shows the base measures.

Table 9–4 Account Debt Cube Base Measures

Physical Name	Logical Name	Physical Column
ADA	TOTAL DEBIT AGE	DWA_ACCT_DEBT_MO.AVG_DEBT_AGE
CIA	CURRENT INVOICE AMOUNT	DWA_ACCT_DEBT_MO.CURR_INVC_AMT
DC	DEBT COUNT	DWA_ACCT_DEBT_MO.DEBT_CNT
IIDC	INVOICE IN DEBIT COUNT	DWA_ACCT_DEBT_MO.INVC_IN_DEBT_CNT
MIAID	MINIMUM INVOICE AMOUNT IN DEBIT	DWA_ACCT_DEBT_MO.MIN_INVC_AMT_IN_DEBT
NAC	NUMBER AGENT COMMENTS	DWA_ACCT_DEBT_MO.NB_AGNT_CMNTS
NCC	NEW CUSTOMER COUNT	DWA_ACCT_DEBT_MO.NEW_CUST_CNT
NOAF	NUMBER OF AGREEMENT FAILED	DWA_ACCT_DEBT_MO.NB_OF_AGRMNT_FAILED
NOAS	NUMBER OF AGREEMENT SUCCESS	DWA_ACCT_DEBT_MO.NB_OF_AGRMNT_SUCCESS
NOC	NB OF CNTCT	DWA_ACCT_DEBT_MO.NB_OF_CNTCT
NOEI	NUMBER OF EMPLOYEE INVOLVED	DWA_ACCT_DEBT_MO.NB_OF_EMP_INVLVD
OD	OUTSTANDING DRTN	DWA_ACCT_DEBT_MO.OUTSTNDNG_DRTN
PCC	PAYMENT COLLECTED COUNT	DWA_ACCT_DEBT_MO.PYMT_COLCTD_CNT
PPC	PROMISE PAYMENT COUNT	DWA_ACCT_DEBT_MO.PRMS_PYMT_CNT
TAA	TOTAL ADJUSTED AMOUNT	DWA_ACCT_DEBT_MO.TOT_ADJD_AMT
TBC	TOTAL BILL UNIT COUNT	DWA_ACCT_DEBT_MO.TOT_BILLUNIT_CNT
TCD	TOTAL CONTACT DIRECTION	DWA_ACCT_DEBT_MO.TOT_CNTCT_DRTN
TDA	TOTAL DEBIT AMOUNT	DWA_ACCT_DEBT_MO.TOT_DEBT_AMT

Table 9–4 (Cont.) Account Debt Cube Base Measures

Physical Name	Logical Name	Physical Column
TDSPTA	TOTAL DISPUTE AMOUNT	DWA_ACCT_DEBT_MO.TOT_DSPT_AMT
TFC	TOTAL FRAUD COST	DWA_ACCT_DEBT_MO.TOT_FRAUD_COST
TLPC	TOTAL LEGAL PROCESS COST	DWA_ACCT_DEBT_MO.TOT_LEGAL_PRCS_COST
TP	TOTAL PAYMENT	DWA_ACCT_DEBT_MO.TOT_PYMT
TPA	TOTAL PENALTY AMOUNT	DWA_ACCT_DEBT_MO.TOT_PNLTY_AMT
TPCA	TOTAL PAYMENT COLLECTED AMOUNT	DWA_ACCT_DEBT_MO.TOT_PYMT_COLCTD_AMT
TRA	TOTAL RECEIVED AMOUNT	DWA_ACCT_DEBT_MO.TOT_RCVD_AMT
TTA	TOTAL TRANSFERD AMOUNT	DWA_ACCT_DEBT_MO.TOT_TRNSFRD_AMT
TWA	TOTAL WAVING AMOUNT	DWA_ACCT_DEBT_MO.TOT_WVNG_AMT
TWD	TOTAL WORK DIRECTION	DWA_ACCT_DEBT_MO.TOT_WORK_DRTN
TWOA	TOTAL WRITE OFF AMOUNT	DWA_ACCT_DEBT_MO.TOT_WRT_OFF_AMT
WC	WAIVING COUNT	DWA_ACCT_DEBT_MO.WVNG_CNT

Derived Measures

Table 9–5 shows the possible derived measures of this data cube.

Table 9–5 Account Debt Cube Derived Measures

Physical Name	Definition	Description
ADA_LY	LAG(ADM.ADA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Debit Age Last Year
CIA_LY	LAG(ADM.CIA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Current Invoice Amount Last Year
DC_LY	LAG(ADM.DC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Debt Count Last Year
EOP_DC	OLAP_DML_EXPRESSION('ADM_DC(time if time_levelrel eq "BSNS_MO" then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP Debt Count
EOP_DC_LY	LAG(ADM.EOP_DC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Debt Count Last Year
EOP_TDA	OLAP_DML_EXPRESSION('ADM_TDA(time if time_levelrel eq "BSNS_MO" then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP Total Debt Amount
EOP_TDA_LY	LAG(ADM.EOP_TDA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Total Debt Amount Last Year
IIDC_LY	LAG(ADM.IIDC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Invoice In Debit Count Last Year
MIAID_LY	LAG(ADM.MIAID, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Minimum Invoice Amount In Debit Last Year
NAC_LY	LAG(ADM.NAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Agent Comments Last Year
NCC_LY	LAG(ADM.NCC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Customer Count Last Year
NOAF_LY	LAG(ADM.NOAF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Agreement Failed Last Year
NOAS_LY	LAG(ADM.NOAS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Agreement Success Last Year

Table 9–5 (Cont.) Account Debt Cube Derived Measures

Physical Name	Definition	Description
NOC_LY	LAG(ADM.NOC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Nb Of Cntct Last Year
NOEI_LY	LAG(ADM.NOEI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Employee Involved Last Year
OD_LY	LAG(ADM.OD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Outstanding Drtn Last Year
PCC_LY	LAG(ADM.PCC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Payment Collected Count Last Year
PPC_LY	LAG(ADM.PPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Promise Payment Count Last Year
TAA_LY	LAG(ADM.TAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Adjusted Amount Last Year
TBC_LY	LAG(ADM.TBC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Bill Unit Count Last Year
TCD_LY	LAG(ADM.TCD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Contact Direction Last Year
TDA_LY	LAG(ADM.TDA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Debt Amount Last Year
TDA_YTD	SUM(ADM.TDA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Total Debt Amount YTD
TDA_YTD_LY	LAG(ADM.TDA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Debt Amount YTD Last Year
TDSPTA_LY	LAG(ADM.TDSPTA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Dispute Amount Last Year
TFC_LY	LAG(ADM.TFC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Fraud Cost Last Year
TLPC_LY	LAG(ADM.TLPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Legal Process Cost Last Year
TP_LY	LAG(ADM.TP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Payment Last Year
TPA_LY	LAG(ADM.TPA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Penalty Amount Last Year
TPCA_LY	LAG(ADM.TPCA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Payment Collected Amount Last Year
TRA_LY	LAG(ADM.TRA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Received Amount Last Year
TTA_LY	LAG(ADM.TTA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Transferd Amount Last Year
TWA_LY	LAG(ADM.TWA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Waving Amount Last Year
TWD_LY	LAG(ADM.TWD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Work Direction Last Year
TWOA_LY	LAG(ADM.TWOA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Write Off Amount Last Year
WC_LY	LAG(ADM.WC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Waiving Count Last Year

Account Payment Cube: APM

Once the bills are processed and invoices sent to the customers, customers pay the bill through different channels (shops/outlets) or through banks.

Customer payments are collected in shops by cash, check, or by credit cards. Customers can pay complete bill amount at once or in parts. Also customers can pay bill amount by one single method or by multiple methods like part by check and part by cash.

Product dimension is included in this aggregate table. In some business, like prepaid mobile, the product code can be identified for each payment, while for others, each payment might pay for several product usage. In later case, customer needs to divide the payment into different products during ETL.

Physical Name: APM

Dimensions and Load Level

The fact data of Account Payment Cube will be loaded from the relational schema at these dimension levels (leaf level).

Table 9–6 Account Payment Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Payment Transaction Type	Payment Transaction Type
Payment Method Type	Payment Method Type
Payment Channel	Payment Channel
Organization	Organization Business Unit
Geography	Product Offering

Aggregation Order/Operator

The Account Payment Cube will be aggregated by the following order and operators on dimensions.

Table 9–7 Account Payment Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Payment Transaction Type	Sum	3
Payment Method Type	Sum	4
Payment Channel	Sum	5
Organization	Sum	6
Geography	Sum	7

Base Measures

Table 9–8 shows the base measures for this data cube.

Table 9–8 Account Payment Cube Base Measures

Physical Name	Logical Name	Physical Column
BCABB	BILL COLLECTION AMOUNT BY BANK	DWA_ACCT_PYMT_MO.BILL_COLLCTN_AMT_BY_BNK
BCALBB	BILL COLLECTION AMOUNT LOCAL BY BANK	DWA_ACCT_PYMT_MO.BILL_COLLCTN_AMT_LCL_BY_BNK
BCARBB	BILL COLLECTION AMOUNT REPORTING BY BANK	DWA_ACCT_PYMT_MO.BILL_COLLCTN_AMT_RPT_BY_BNK
FPC	FAILED PAYMENT COUNT	DWA_ACCT_PYMT_MO.FAILD_PYMT_CNT
PA	PAYMENT AMOUNT	DWA_ACCT_PYMT_MO.PYMT_AMT
PAL	PAYMENT AMOUNT LOCAL	DWA_ACCT_PYMT_MO.PYMT_AMT_LCL
PAR	PAYMENT AMOUNT REPORT	DWA_ACCT_PYMT_MO.PYMT_AMT_RPT
PC	PAYMENT COUNT	DWA_ACCT_PYMT_MO.PYMT_CNT
RA	REFUND COUNT AMOUNT	DWA_ACCT_PYMT_MO.RFND_AMT
RAL	REFUND COUNT AMOUNT LOCAL	DWA_ACCT_PYMT_MO.RFND_AMT_LCL
RAR	REFUND COUNT AMOUNT REPORT	DWA_ACCT_PYMT_MO.RFND_AMT_RPT
RC	REFUND COUNT	DWA_ACCT_PYMT_MO.RFND_CNT

Derived Measures

Table 9–9 shows the possible derived measure of this data cube.

Table 9–9 Account Payment Cube Derived Measures

Physical Name	Definition	Description
BCABB_LY	LAG(APM.BCABB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Bill Collection Amount By Bank Last Year
BCALBB_LY	LAG(APM.BCALBB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Bill Collection Amount Local By Bank Last Year
BCARBB_LY	LAG(APM.BCARBB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Bill Collection Amount Reporting By Bank Last Year
FPC_LY	LAG(APM.FPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Failed Payment Count Last Year
PA_LY	LAG(APM.PA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Payment Amount Last Year
PAL_LY	LAG(APM.PAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Payment Amount Local Last Year
PAR_LY	LAG(APM.PAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Payment Amount Report Last Year
PC_LY	LAG(APM.PC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Payment Count Last Year
RA_LY	LAG(APM.RA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Refund Count Amount Last Year
RAL_LY	LAG(APM.RAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Refund Count Amount Local Last Year
RAR_LY	LAG(APM.RAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Refund Count Amount Report Last Year
RC_LY	LAG(APM.RC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Refund Count Last Year

Agreement Cube: AGRMNT

This cube stores derived information about customer's current/future agreement for analytical purposes. The entity only contains changed agreements (current or future).

Physical Name: AGRMNT

Dimensions and Load Level

The fact data for the Agreement Cube is loaded from the relational schema at these dimension levels(leaf level).

Table 9–10 Agreement Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Product Offering	Product Offering
Organization	Organization Business Unit
Geography	Product Offering

Aggregation Order/Operator

The Agreement Cube will be aggregated by the following order and operators on dimensions

Table 9–11 Agreement Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Product Offering	Sum	3
Organization	Sum	4
Geography	Sum	5

Base Measures

Table 9–12 shows the base measure for this data cube.

Table 9–12 Agreement Cube Base Measures

Physical Name	Logical Name	Physical Column
AAC	AMORTIZED ACTUAL COST	DWD_AGRMNT.AMRTZD_ACT_COST
AACL	AMORTIZED ACTUAL COST LOCAL	DWD_AGRMNT.AMRTZD_ACT_COST_LCL
AACR	AMORTIZED ACTUAL COST REPORTING	DWD_AGRMNT.AMRTZD_ACT_COST_RPT
AAVMA	AMORTIZED AGREEMENT VALUE MONTH AMOUNT	DWD_AGRMNT.AMRTZD_AGRMNT_VAL_MO_AMT
AAVMAL	AMORTIZED AGREEMENT VALUE MONTH AMOUNT LOCAL	DWD_AGRMNT.AMRTZD_AGRMNT_VAL_MO_AMT_LCL
AAVMAR	AMORTIZED AGREEMENT VALUE MONTH AMOUNT REPORTING	DWD_AGRMNT.AMRTZD_AGRMNT_VAL_MO_AMT_RPT
AC	ACTUAL COST	DWD_AGRMNT.ACT_COST
ACL	ACTUAL COST LOCAL	DWD_AGRMNT.ACT_COST_LCL
ACR	ACTUAL COST REPORTING	DWD_AGRMNT.ACT_COST_RPT
ALA	AGREEMENT LOSS AMOUNT	DWD_AGRMNT.AGRMNT_LOSS_AMT
ALAL	AGREEMENT LOSS AMOUNT LOCAL	DWD_AGRMNT.AGRMNT_LOSS_AMT_LCL

Table 9–12 (Cont.) Agreement Cube Base Measures

Physical Name	Logical Name	Physical Column
ALAR	AGREEMENT LOSS AMOUNT REPORTING	DWD_AGRMNT.AGRMNT_LOSS_AMT_RPT
AMP	ACQUISITION MARKETING PREMIUM	DWD_AGRMNT.ACQSTN_MKTG_PRMM
AMPL	ACQUISITION MARKETING PREMIUM LOCAL	DWD_AGRMNT.ACQSTN_MKTG_PRMM_LCL
AMPR	ACQUISITION MARKETING PREMIUM REPORTING	DWD_AGRMNT.ACQSTN_MKTG_PRMM_RPT
ASC	AMORTIZED STANDARD COST	DWD_AGRMNT.AMRTZD_STNDRD_COST
ASCL	AMORTIZED STANDARD COST LOCAL	DWD_AGRMNT.AMRTZD_STNDRD_COST_LCL
ASCR	AMORTIZED STANDARD COST REPORTING	DWD_AGRMNT.AMRTZD_STNDRD_COST_RPT
CAS	CUSTOMER AGREEMENT SUM	DWD_AGRMNT.CUST_AGRMNT_SUM
CFAA	CANCELLED FUTURE AGREEMENT AMOUNT	DWD_AGRMNT.CNCL_FUTRE_AGRMNT_AMT
CFAAL	CANCELLED FUTURE AGREEMENT AMOUNT LOCAL	DWD_AGRMNT.CNCL_FUTRE_AGRMNT_AMT_LCL
CFAAR	CANCELLED FUTURE AGREEMENT AMT REPORTING	DWD_AGRMNT.CNCL_FUTRE_AGRMNT_AMT_RPT
IRRA	INVOICED REVENUE AMOUNT	DWD_AGRMNT.INVCD_RECFEE_RVN_AMT
IRRAL	INVOICED REVENUE AMOUNT LOCAL	DWD_AGRMNT.INVCD_RECFEE_RVN_AMT_LCL
IRRAR	INVOICED REVENUE AMOUNT REPORTING	DWD_AGRMNT.INVCD_RECFEE_RVN_AMT_RPT
LDC	LIQUIDATED DAMAGE CHARGE	DWD_AGRMNT.LQDTD_DMG_CHRG
LDCL	LIQUIDATED DAMAGE CHARGE LOCAL	DWD_AGRMNT.LQDTD_DMG_CHRG_LCL
LDCR	LIQUIDATED DAMAGE CHARGE REPORTING	DWD_AGRMNT.LQDTD_DMG_CHRG_RPT
NAAA	NEW ACQUISITION AGREEMENT AMOUNT	DWD_AGRMNT.NEW_ACQSTN_AGRMNT_AMT
NAAAL	NEW ACQUISITION AGREEMENT AMOUNT LOCAL	DWD_AGRMNT.NEW_ACQSTN_AGRMNT_AMT_LCL
NAAAR	NEW ACQUISITION AGREEMENT AMOUNT REPORTING	DWD_AGRMNT.NEW_ACQSTN_AGRMNT_AMT_RPT
NRAA	NEW RETENTION AGREEMENT AMOUNT	DWD_AGRMNT.NEW_RTNTN_AGRMNT_AMT
NRAAL	NEW RETENTION AGREEMENT AMOUNT LOCAL	DWD_AGRMNT.NEW_RTNTN_AGRMNT_AMT_LCL
NRAAR	NEW RETENTION AGREEMENT AMOUNT REPORTING	DWD_AGRMNT.NEW_RTNTN_AGRMNT_AMT_RPT
RAA	REMAINING AGREEMENT AMOUNT	DWD_AGRMNT.REMNG_AGRMNT_AMT
RAAL	REMAINING AGREEMENT AMOUNT LOCAL	DWD_AGRMNT.REMNG_AGRMNT_AMT_LCL
RAAR	REMAINING AGREEMENT AMOUNT REPORTING	DWD_AGRMNT.REMNG_AGRMNT_AMT_RPT
RMP	RETENTION MARKETING PREMIUM	DWD_AGRMNT.RTNTN_MKTG_PRMM
RMPL	RETENTION MARKETING PREMIUM LOCAL	DWD_AGRMNT.RTNTN_MKTG_PRMM_LCL
RMPR	RETENTION MARKETING PREMIUM REPORTING	DWD_AGRMNT.RTNTN_MKTG_PRMM_RPT
SC	STANDARD COST	DWD_AGRMNT.STNDRD_COST
SCL	STANDARD COST LOCAL	DWD_AGRMNT.STNDRD_COST_LCL
SCR	STANDARD COST REPORTING	DWD_AGRMNT.STNDRD_COST_RPT
TAAC	TOTAL AGREEMENT ACTIVE COUNT	DWD_AGRMNT.TOT_AGRMNT_ACTV_CNT
TACC	TOTAL AGREEMENT CHURNED COUNT	DWD_AGRMNT.TOT_AGRMNT_CHRN_CNT
TAPC	TOTAL AGREEMENT PENDING COUNT	DWD_AGRMNT.TOT_AGRMNT_PENDING_CNT
TASC	TOTAL AGREEMENT SUSPENDED COUNT	DWD_AGRMNT.TOT_AGRMNT_SUSP_CNT

Derived Measures

Table 9–13 shows the possible derived measure of this data cube.

Table 9–13 Agreement Cube Derived Measures

Physical Name	Definition	Description
AAC_LY	LAG(AGRMNT.AAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Actual Cost Last Year
AACL_LY	LAG(AGRMNT.AACL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Actual Cost Local Last Year
AACR_LY	LAG(AGRMNT.AACR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Actual Cost Reporting Last Year
AAVMA_LY	LAG(AGRMNT.AAVMA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Agreement Value Month Amount Last Year
AAVMAL_LY	LAG(AGRMNT.AAVMAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Agreement Value Month Amount Local Last Year
AAVMAR_LY	LAG(AGRMNT.AAVMAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Agreement Value Month Amount Reporting Last Year
AC_LY	LAG(AGRMNT.AC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Cost Last Year
ACL_LY	LAG(AGRMNT.ACL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Cost Local Last Year
ACR_LY	LAG(AGRMNT.ACR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Cost Reporting Last Year
ALA_LY	LAG(AGRMNT.ALA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Agreement Loss Amount Last Year
ALAL_LY	LAG(AGRMNT.ALAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Agreement Loss Amount Local Last Year
ALAR_LY	LAG(AGRMNT.ALAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Agreement Loss Amount Reporting Last Year
AMP_LY	LAG(AGRMNT.AMP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Marketing Premium Last Year
AMPL_LY	LAG(AGRMNT.AMPL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Marketing Premium Local Last Year
AMPR_LY	LAG(AGRMNT.AMPR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Marketing Premium Reporting Last Year
ASC_LY	LAG(AGRMNT."ASC", 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Standard Cost Last Year
ASCL_LY	LAG(AGRMNT.ASCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Standard Cost Local Last Year

Table 9–13 (Cont.) Agreement Cube Derived Measures

Physical Name	Definition	Description
ASCR_LY	LAG(AGRMNT.ASCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Amortized Standard Cost Reporting Last Year
CAS_LY	LAG(AGRMNT.CAS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Customer Agreement Sum Last Year
CFAA_LY	LAG(AGRMNT.CFAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cancelled Future Agreement Amount Last Year
CFAA_LY_PCT_CHG	LAG_VARIANCE_PERCENT(AGRMNT.CFAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cancelled Future Agreement Amount % Change LY
CFAAL_LY	LAG(AGRMNT.CFAAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cancelled Future Agreement Amount Local Last Year
CFAAR_LY	LAG(AGRMNT.CFAAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cancelled Future Agreement Amt Reporting Last Year
EOP_CAS	OLAP_DML_EXPRESSION('AGRMNT_CAS(time if time_levelrel eq ''BSNS_MO'' then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP CAS
EOP_CAS_LP	LAG(AGRMNT.EOP_CAS, 1) OVER HIERARCHY ("TIME".HTBSNS)	EOP Customer Agreement Sum Last Period
EOP_RAA	OLAP_DML_EXPRESSION('AGRMNT_RAA(time if time_levelrel eq ''BSNS_MO'' then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP Remaining Agreement Amount
EOP_RAA_LM	LAG(AGRMNT.EOP_RAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_MO POSITION FROM BEGINNING)	EOP Remaining Agreement Amount Last Month
EOP_RAA_LM_PCT_CHG	LAG_VARIANCE_PERCENT(AGRMNT.EOP_RAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_MO POSITION FROM BEGINNING)	EOP Remaining Agreement Amount % Chg Last Month
IRRA_LY	LAG(AGRMNT.IRRA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Invoiced Revenue Amount Last Year
IRRAL_LY	LAG(AGRMNT.IRRAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Invoiced Revenue Amount Local Last Year
IRRAR_LY	LAG(AGRMNT.IRRAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Invoiced Revenue Amount Reporting Last Year
LDC_LY	LAG(AGRMNT.LDC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Liquidated Damage Charge Last Year
LDCL_LY	LAG(AGRMNT.LDCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Liquidated Damage Charge Local Last Year
LDCR_LY	LAG(AGRMNT.LDCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Liquidated Damage Charge Reporting Last Year
NAAA_LY	LAG(AGRMNT.NAAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Acquisition Agreement Amount Last Year
NAAAL_LY	LAG(AGRMNT.NAAAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Acquisition Agreement Amount Local Last Year

Table 9–13 (Cont.) Agreement Cube Derived Measures

Physical Name	Definition	Description
NAAAR_LY	LAG(AGRMNT.NAAAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Acquisition Agreement Amount Reporting Last Year
NRAA_LY	LAG(AGRMNT.NRAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Retention Agreement Amount Last Year
NRAAL_LY	LAG(AGRMNT.NRAAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Retention Agreement Amount Local Last Year
NRAAR_LY	LAG(AGRMNT.NRAAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Retention Agreement Amount Reporting Last Year
RAA_LY	LAG(AGRMNT.RAA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Remaining Agreement Amount Last Year
RAAL_LY	LAG(AGRMNT.RAAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Remaining Agreement Amount Local Last Year
RAAR_LY	LAG(AGRMNT.RAAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Remaining Agreement Amount Reporting Last Year
RMP_LY	LAG(AGRMNT.RMP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Retention Marketing Premium Last Year
RMPL_LY	LAG(AGRMNT.RMPL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Retention Marketing Premium Local Last Year
RMPR_LY	LAG(AGRMNT.RMPR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Retention Marketing Premium Reporting Last Year
SC_LY	LAG(AGRMNT.SC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Standard Cost Last Year
SCL_LY	LAG(AGRMNT.SCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Standard Cost Local Last Year
SCR_LY	LAG(AGRMNT.SCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Standard Cost Reporting Last Year
TAAC_LY	LAG(AGRMNT.TAAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Agreement Active Count Last Year
TACC_LY	LAG(AGRMNT.TACC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Agreement Churned Count Last Year
TAPC_LY	LAG(AGRMNT.TAPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Agreement Pending Count Last Year
TASC_LY	LAG(AGRMNT.TASC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Agreement Suspended Count Last Year

Cell Statistic Cube: CSM

Most of the network parameters are captured at the cell level and aggregating the cell level parameters can derive the network level parameters. Cell statistics cube will be

used to collect most of the cell parameters. In addition, the Cell Statistic Cube could be adapted to work for other network elements than cell.

Physical Name: CSM

Dimensions and Load Level

The fact data of Cell statistics will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–14 Cell Statistic Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Peak Offpeak Time	Peak Offpeak Time
Network Element	Network Element
Time Slot	Time Slot
Geography	County

Aggregation Order/Operator

The Cell statistics Cube will be aggregated by the following order and operators on dimensions

Table 9–15 Cell Statistic Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Peak Offpeak Time	Sum	2
Network Element	Sum	3
Time Slot	Sum	4
Geography	Sum	5

Base Measures

Table 9–16 shos the base measures for this data cube.

Table 9–16 Cell Statistic Cube Base Measures

Physical Name	Logical Name	Physical Column
ACI	ADJACENT CHANNEL INTERFERENCE	DWA_CELL_STTSTC_MO.ADJ_CHNL_INTRFRNCE
ACM	AIR CALL MINUTES	DWA_CELL_STTSTC_MO.AIR_CALL_MNTS
ADDB	AIR DL DATA BLKS	DWA_CELL_STTSTC_MO.AIR_DL_DATA_BLKS
AR	ASSIGN REDIRECT	DWA_CELL_STTSTC_MO.ASGN_REDRCT
ASF	ALLOC SDCCH FAIL	DWA_CELL_STTSTC_MO.ALLOC_SDCCH_FAIL
ASM	AVAILABLE SDCCH MAX	DWA_CELL_STTSTC_MO.AVLBL_SDCCH_MAX
AT	ALLOC TCH	DWA_CELL_STTSTC_MO.ALLOC_TCH
ATF	ALLOC TCH FAIL	DWA_CELL_STTSTC_MO.ALLOC_TCH_FAIL
ATM	AVAILABLE TCH MAX	DWA_CELL_STTSTC_MO.AVLBL_TCH_MAX
AUDB	AIR UL DATA BLKS	DWA_CELL_STTSTC_MO.AIR_UL_DATA_BLKS
BSM	BUSY SDCCH MAX	DWA_CELL_STTSTC_MO.BUSY_SDCCH_MAX

Table 9–16 (Cont.) Cell Statistic Cube Base Measures

Physical Name	Logical Name	Physical Column
BTM	BUSY TCH MAX	DWA_CELL_STTSTC_MO.BUSY_TCH_MAX
CCE	CELL CARRIED ERLANGS	DWA_CELL_STTSTC_MO.CELL_CARRIED_ERLNGS
CD	CALL DURATION	DWA_CELL_STTSTC_MO.CALL_DRTN
CHRR	CHANNEL REQS REC	DWA_CELL_STTSTC_MO.CHNL_REQS_REC
CISC	CONGESTION IN SOURCE CELL	DWA_CELL_STTSTC_MO.CONGSTN_IN_SRC_CELL
CNNTS	CONNECTIONS	DWA_CELL_STTSTC_MO.CNCTNS
COE1	CELL OFFERED ERLANGS	DWA_CELL_STTSTC_MO.CELL_OFRD_ERLNGS
CONNR	CONNECTIONS REFUSE	DWA_CELL_STTSTC_MO.CNCTNS_REFUSE
CR	CM REESTABLISH	DWA_CELL_STTSTC_MO.CM_RESTBLSH
CRFR	CHAN REQ FAIL ROL	DWA_CELL_STTSTC_MO.CHAN_REQ_FAIL_ROL
CRMB	CHAN REQ MS BLK	DWA_CELL_STTSTC_MO.CHAN_REQ_MS_BLK
CRR	CHANNEL REQS REJECT	DWA_CELL_STTSTC_MO.CHNL_REQS_REJECT
CSRC	CM SERV REQ CALL	DWA_CELL_STTSTC_MO.CM_SERV_REQ_CALL
CSRE	CM SERV REQ EMRG	DWA_CELL_STTSTC_MO.CM_SERV_REQ_EMRG
CSRS	CM SERV REQ SMS	DWA_CELL_STTSTC_MO.CM_SERV_REQ_SMS
CSRSP	CM SERV REQ SUPP	DWA_CELL_STTSTC_MO.CM_SERV_REQ_SUPP
DSL	DOWNLINK SIGNAL LEVEL	DWA_CELL_STTSTC_MO.DNLNK_SGNL_LVL
DSQ	DOWNLINK SIGNAL QUALITY	DWA_CELL_STTSTC_MO.DNLNK_SGNL_QLTY
HU	HOUR USAGE	DWA_CELL_STTSTC_MO.HR_USG
ICHA	INTRA CELL HO ATM	DWA_CELL_STTSTC_MO.INTRA_CELL_HO_ATM
ICHL	INTRA CELL HO LOS	DWA_CELL_STTSTC_MO.INTRA_CELL_HO_LOS
ICHS	INTRA CELL HO SUC	DWA_CELL_STTSTC_MO.INTRA_CELL_HO_SUC
ID	IMSI DETACH	DWA_CELL_STTSTC_MO.IMSI_DETACH
IECR	INV EST CAUSE RACH	DWA_CELL_STTSTC_MO.INV_EST_CAUSE_RACH
IERHS	I INTER BS HO SUC	DWA_CELL_STTSTC_MO.I_INTR_BS_HO_SUC
IRAHC	I INTRA BS HO SUC	DWA_CELL_STTSTC_MO.I_INTRA_BS_HO_SUC
LFRRN	LOC FLW REQ NRM	DWA_CELL_STTSTC_MO.LOC_FLW_REQ_NRM
LFRS	LOC FLW REQ NRM	DWA_CELL_STTSTC_MO.LOC_FLW_REQ_NRM
LS	LOCATION SERVICES	DWA_CELL_STTSTC_MO.LOC_SRVCS
LU	LOCATION UPDATE	DWA_CELL_STTSTC_MO.LOC_UPDT
MTLOS	MT LCS ON SDDCH	DWA_CELL_STTSTC_MO.MT_LCS_ON_SDDCH
NCA	NUMBER OF CALL ATTEMPTS	DWA_CELL_STTSTC_MO.NBR_OF_CALL_ATTMPTS
NCAWT	NUMBER OF CALL ATTEMPTS WO TRANSIT	DWA_CELL_STTSTC_MO.NBR_OF_CALL_ATTMPTS_WO_TRNST
NOC	NUMBER OF CALLS	DWA_CELL_STTSTC_MO.NBR_OF_CALLS
NOCE	NUMBER OF CELLS	DWA_CELL_STTSTC_MO.NBR_OF_CELLS
OAPSR	OK ACC PROC SUC R	DWA_CELL_STTSTC_MO.OK_ACC_PROC_SUC_R
OEREF	O INTER BS EQ FA	DWA_CELL_STTSTC_MO.O_INTR_BS_EQ_FA
OERHA	O INTER BS HO ATM	DWA_CELL_STTSTC_MO.O_INTR_BS_HO_ATM
OERHR	O INTER BS HO RET	DWA_CELL_STTSTC_MO.O_INTR_BS_HO_RET
OERHS	O INTER BS HO SUC	DWA_CELL_STTSTC_MO.O_INTR_BS_HO_SUC
OERRM	O INTER BS RQ MSC	DWA_CELL_STTSTC_MO.O_INTR_BS_RQ_MSC
OHCA	OUT HO CAUSE ATTEMPTS	DWA_CELL_STTSTC_MO.OUT_HO_CAUSE_ATTMPTS

Table 9–16 (Cont.) Cell Statistic Cube Base Measures

Physical Name	Logical Name	Physical Column
ORAHA	O INTRA BS HO ATM	DWA_CELL_STTSTC_MO.O_INTRA_BS_HO_ATM
ORAHC	O INTRA BS HO CLR	DWA_CELL_STTSTC_MO.O_INTRA_BS_HO_CLR
ORAHL	O INTRA BS HO LOS	DWA_CELL_STTSTC_MO.O_INTRA_BS_HO_LOS
ORAHS	O INTRA BS HO SUC	DWA_CELL_STTSTC_MO.O_INTRA_BS_HO_SUC
PBSS	POWER BUDGET SIGNAL STRENGTH	DWA_CELL_STTSTC_MO.POWR_BDGT_SGNL_ STRNGTH
PR	PAGE RESPONSE	DWA_CELL_STTSTC_MO.PG_RESPN
PRFM	PAGE REQ FROM MSC	DWA_CELL_STTSTC_MO.PG_REQ_FROM_MSC
RLTR	RF LOSS TCH ROLL	DWA_CELL_STTSTC_MO.RF_LOSS_TCH_ROLL
SH	ALLOC SDCCH	DWA_CELL_STTSTC_MO.ALLOC_SDCCH
SIOS	SMS INIT ON SDCCH	DWA_CELL_STTSTC_MO.SMS_INIT_ON_SDCCH
SIOT	SMS INIT ON TCH	DWA_CELL_STTSTC_MO.SMS_INIT_ON_TCH
SPM	SPARE TCH MAX	DWA_CELL_STTSTC_MO.SPARE_TCH_MAX
SSD	SIGNAL SOURCE DISTANCE	DWA_CELL_STTSTC_MO.SGNL_SRC_DSTNC
SSM	SPARE SDCCH MAX	DWA_CELL_STTSTC_MO.SPARE_SDCCH_MAX
TCM	TOTAL CALL MINUTES	DWA_CELL_STTSTC_MO.TOT_CALL_MNTS
TQR	TCH Q REMOVED	DWA_CELL_STTSTC_MO.TCH_Q_REMVD
TT	TOTAL TRAFFIC	DWA_CELL_STTSTC_MO.TOT_TRFC
USL	UPLINK SIGNAL LEVEL	DWA_CELL_STTSTC_MO.UPLNK_SGNL_LVL
USQ	UPLINK SIGNAL QUALITY	DWA_CELL_STTSTC_MO.UPLNK_SGNL_QLTY

Derived Measures

Table 9–17 shows the possible derived measure of this data cube.

Table 9–17 Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
ACI_LP	LAG(CSM.ACI, 1) OVER HIERARCHY ("TIME".HTBSNS)	Adjacent Channel Interference Last Period
ACI_LY	LAG(CSM.ACI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjacent Channel Interference Last Year
ACI_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ACI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjacent Channel Interference % Change Last Year
ACI_YTD	SUM(CSM.ACI) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Adjacent Channel Interference YTD
ACI_YTD_LY	LAG(CSM.ACI_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjacent Channel Interference YTD Last Year
ACI_YTD_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.ACI_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjacent Channel Interference % Change Last Year
ACM_LP	LAG(CSM.ACM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Air Call Minutes Last Period
ACM_LY	LAG(CSM.ACM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air Call Minutes Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
ACM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ACM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air Call Minutes % Chnage Last Year
ACM_YTD	SUM(CSM.ACM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Air Call Minutes YTD
ACM_YTD_LY	LAG(CSM.ACM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air Call Minutes YTD Last Year
ACM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ACM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air Call Minutes YTD % Chnage Last Year
ADDB_LP	LAG(CSM.ADDB, 1) OVER HIERARCHY ("TIME".HTBSNS)	Air DL Data Blocks YTD Last Period
ADDB_LY	LAG(CSM.ADDB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air DL Data Blocks Last Year
ADDB_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ADDB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air DL Data Blocks % Change Last Year
ADDB_YTD	SUM(CSM.ADDB) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Air DL Data Blocks YTD
ADDB_YTD_LY	LAG(CSM.ADDB_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air DL Data Blocks YTD Last Year
ADDB_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ADDB_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air DL Data Blocks YTD % Change Last Year
AR_LP	LAG(CSM.AR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Assign Redirect Last Period
AR_LY	LAG(CSM.AR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Assign Redirect Last Year
AR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.AR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Assign Redirect % Change Last Year
AR_YTD	SUM(CSM.AR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Assign Redirect YTD
AR_YTD_LY	LAG(CSM.AR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Assign Redirect YTD Last Year
AR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.AR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Assign Redirect YTD % Change Last Year
ASF_LP	LAG(CSM.ASF, 1) OVER HIERARCHY ("TIME".HTBSNS)	Alloc SDCCH Fail Last Period
ASF_LY	LAG(CSM.ASF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH Fail Last Year
ASF_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ASF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH Fail % Change Last Year
ASF_YTD	SUM(CSM.ASF) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Alloc SDCCH Fail YTD

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
ASF_YTD_LY	LAG(CSM.ASF_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH Fail YTD Last Year
ASF_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ASF_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH Fail YTD % Change Last Year
ASM_LP	LAG(CSM.ASM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Available SDCCH Max Last Period
ASM_LY	LAG(CSM.ASM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available SDCCH Max Last Year
ASM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ASM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available SDCCH Max % Chnage Last Year
ASM_YTD	SUM(CSM.ASM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Available SDCCH Max YTD
ASM_YTD_LY	LAG(CSM.ASM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available SDCCH Max YTD Last Year
ASM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ASM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available SDCCH Max YTD % Chnage Last Year
AT_LP	LAG(CSM."AT", 1) OVER HIERARCHY ("TIME".HTBSNS)	Alloc TCH Last Period
AT_LY	LAG(CSM."AT", 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH Last Year
AT_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM."AT", 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH % Change Last Year
AT_YTD	SUM(CSM."AT") OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Alloc TCH YTD
AT_YTD_LY	LAG(CSM.AT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH YTD Last Year
AT_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.AT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH YTD % Change Last Year
ATF_LP	LAG(CSM.ATF, 1) OVER HIERARCHY ("TIME".HTBSNS)	Alloc TCH Fail Last Period
ATF_LY	LAG(CSM.ATF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH Fail Last Year
ATF_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ATF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH Fail % Chnage Last Year
ATF_YTD	SUM(CSM.ATF) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Alloc TCH Fail YTD
ATF_YTD_LY	LAG(CSM.ATF_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH Fail YTD Last Year
ATF_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ATF_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc TCH Fail YTD % Chnage Last Year
ATM_LP	LAG(CSM.ATM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Available TCH Max Last Period

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
ATM_LY	LAG(CSM.ATM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available TCH Max Last Year
ATM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ATM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available Tch Max Last Year
ATM_YTD	SUM(CSM.ATM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Available TCH Max YTD
ATM_YTD_LY	LAG(CSM.ATM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available TCH Max YTD Last Year
ATM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ATM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Available TCH Max YTD % Change Last Year
AUDB_LP	LAG(CSM.AUDB, 1) OVER HIERARCHY ("TIME".HTBSNS)	Air UL Data Blks Last Period
AUDB_LY	LAG(CSM.AUDB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air UL Data Blks Last Year
AUDB_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.AUDB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air UL Data Blks % Change Last Year
AUDB_YTD	SUM(CSM.AUDB) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Air UL Data Blks YTD
AUDB_YTD_LY	LAG(CSM.AUDB_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air UL Data Blks YTD Last Year
AUDB_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.AUDB_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Air UL Data Blks YTD % Change Last Year
BSM_LP	LAG(CSM.BSM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Busy SDCCH Max Last Period
BSM_LY	LAG(CSM.BSM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy SDCCH Max Last Year
BSM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.BSM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy SDCCH Max % Chnage Last Year
BSM_YTD	SUM(CSM.BSM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Busy SDCCH Max YTD
BSM_YTD_LY	LAG(CSM.BSM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy SDCCH Max YTD Last Year
BSM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.BSM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy SDCCH Max YTD % Chnage Last Year
BTM_LP	LAG(CSM.BTM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Busy TCH Max Last Period
BTM_LY	LAG(CSM.BTM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy TCH Max Last Year
BTM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.BTM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy TCH Max % Change Last Year
BTM_YTD	SUM(CSM.BTM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Busy TCH Max YTD

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
BTM_YTD_LY	LAG(CSM.BTM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy TCH Max YTD Last Year
BTM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.BTM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Busy TCH Max YTD % Change Last Year
CCE_LP	LAG(CSM.CCE, 1) OVER HIERARCHY ("TIME".HTBSNS)	Cell Carried Erlangs Last Period
CCE_LY	LAG(CSM.CCE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cell Carried Erlangs Last Year
CCE_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CCE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cell Carried Erlangs % Change Last Year
CCE_YTD	SUM(CSM.CCE) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Cell Carried Erlangs YTD
CCE_YTD_LY	LAG(CSM.CCE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cell Carried Erlangs YTD Last Year
CCE_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CCE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cell Carried Erlangs YTD % Change Last Year
CD_LP	LAG(CSM.CD, 1) OVER HIERARCHY ("TIME".HTBSNS)	Call Duration Last Period
CD_LY	LAG(CSM.CD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Duration Last Year
CD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Duration % Chnage Last Year
CD_YTD	SUM(CSM.CD) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Call Duration YTD
CD_YTD_LY	LAG(CSM.CD_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Duration YTD Last Year
CD_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CD_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Duration YTD % Chnage Last Year
CHRR_LP	LAG(CSM.CHRR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Channel Reqs Rec Last Period
CHRR_LY	LAG(CSM.CHRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Rec Last Year
CHRR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CHRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Rec % Change Last Year
CHRR_YTD	SUM(CSM.CHRR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Channel Reqs Rec YTD
CHRR_YTD_LY	LAG(CSM.CHRR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Rec YTD Last Year
CHRR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CHRR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Rec YTD % Change Last Year
CISC_LP	LAG(CSM.CISC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Congestion In Source Cell Last Period

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
CISC_LY	LAG(CSM.CISC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Congestion In Source Cell Last Year
CISC_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CISC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Congestion In Source Cell % Chnage Last Year
CISC_YTD	SUM(CSM.CISC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Congestion In Source Cell YTD
CISC_YTD_LY	LAG(CSM.CISC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Congestion In Source Cell YTD Last Year
CISC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CISC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Congestion In Source Cell YTD % Chnage Last Year
CNNTS_LP	LAG(CSM.CNNTS, 1) OVER HIERARCHY ("TIME".HTBSNS)	Connections Last Period
CNNTS_LY	LAG(CSM.CNNTS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections Last Year
CNNTS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CNNTS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections % Chnage Last Year
CNNTS_YTD	SUM(CSM.CNNTS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Connections YTD
CNNTS_YTD_LY	LAG(CSM.CNNTS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections YTD Last Year
CNNTS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CNNTS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections YTD % Chnage Last Year
CONNR_LP	LAG(CSM.CONNR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Connections Refuse Last Period
CONNR_LY	LAG(CSM.CONNR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections Refuse Last Year
CONNR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CONNR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections Refuse % Change Last Year
CONNR_YTD	SUM(CSM.CONNR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Connections Refuse YTD
CONNR_YTD_LY	LAG(CSM.CONNR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections Refuse YTD Last Year
CONNR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CONNR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Connections Refuse YTD % Change Last Year
CR_LP	LAG(CSM.CR, 1) OVER HIERARCHY ("TIME".HTBSNS)	CM Reestablish Last Period
CR_LY	LAG(CSM.CR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Reestablish Last Year
CR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Reestablish % Change Last Year
CR_YTD	SUM(CSM.CR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	CM Reestablish YTD

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
CR_YTD_LY	LAG(CSM.CR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Reestablish YTD Last Year
CR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Reestablish YTD % Change Last Year
CRFR_LP	LAG(CSM.CRFR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Chan Req Fail Rol Last Period
CRFR_LY	LAG(CSM.CRFR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req Fail Rol Last Year
CRFR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CRFR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req Fail Rol % Change Last Year
CRFR_YTD	SUM(CSM.CRFR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Chan Req Fail Rol YTD
CRFR_YTD_LY	LAG(CSM.CRFR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req Fail Rol YTD Last Year
CRFR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CRFR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req Fail Rol YTD % Change Last Year
CRMB_LP	LAG(CSM.CRMB, 1) OVER HIERARCHY ("TIME".HTBSNS)	Chan Req MS Blk Last Period
CRMB_LY	LAG(CSM.CRMB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req MS Blk Last Year
CRMB_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CRMB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req MS Blk % Chnage Last Year
CRMB_YTD	SUM(CSM.CRMB) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Chan Req MS Blk YTD
CRMB_YTD_LY	LAG(CSM.CRMB_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req MS Blk YTD Last Year
CRMB_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CRMB_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Chan Req MS Blk YTD % Chnage Last Year
CRR_LP	LAG(CSM.CRR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Channel Reqs Reject Last Period
CRR_LY	LAG(CSM.CRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Reject Last Year
CRR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Reject % Chnage Last Year
CRR_YTD	SUM(CSM.CRR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Channel Reqs Reject YTD
CRR_YTD_LY	LAG(CSM.CRR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Reject YTD Last Year
CRR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CRR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Channel Reqs Reject YTD % Chnage Last Year
CSRC_LP	LAG(CSM.CSRC, 1) OVER HIERARCHY ("TIME".HTBSNS)	CM Serv Req Call Last Period

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
CSRC_LY	LAG(CSM.CSRC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Call Last Year
CSRC_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Call % Change Last Year
CSRC_YTD	SUM(CSM.CSRC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	CM Serv Req Call YTD
CSRC_YTD_LY	LAG(CSM.CSRC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Call YTD Last Year
CSRC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Call YTD % Change Last Year
CSRE_LP	LAG(CSM.CSRE, 1) OVER HIERARCHY ("TIME".HTBSNS)	CM Serv Req Emrg Last Period
CSRE_LY	LAG(CSM.CSRE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Emrg Last Year
CSRE_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Emrg % Chnage Last Year
CSRE_YTD	SUM(CSM.CSRE) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	CM Serv Req Emrg YTD
CSRE_YTD_LY	LAG(CSM.CSRE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Emrg YTD Last Year
CSRE_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Emrg % Chnage Last Year
CSRS_LP	LAG(CSM.CSRS, 1) OVER HIERARCHY ("TIME".HTBSNS)	CM Serv Req SMS Last Period
CSRS_LY	LAG(CSM.CSRS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req SMS Last Year
CSRS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req SMS % Chnage Last Year
CSRS_YTD	SUM(CSM.CSRS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	CM Serv Req SMS YTD
CSRS_YTD_LY	LAG(CSM.CSRS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req SMS YTD Last Year
CSRS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req SMS YTD % Chnage Last Year
CSRSP_LP	LAG(CSM.CSRSP, 1) OVER HIERARCHY ("TIME".HTBSNS)	CM Serv Req Supp Last period
CSRSP_LY	LAG(CSM.CSRSP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Supp Last Year
CSRSP_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRSP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Supp % Change Last Year
CSRSP_YTD	SUM(CSM.CSRSP) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	CM Serv Req Supp YTD

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
CSRSP_YTD_LY	LAG(CSM.CSRSP_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cm Serv Req Supp Last Year
CSRSP_YTD_LY_ PCT_CHG	LAG_VARIANCE_PERCENT(CSM.CSRSP_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	CM Serv Req Supp % Change Last Year
DSL_LP	LAG(CSM.DSL, 1) OVER HIERARCHY ("TIME".HTBSNS)	Downlink Signal Level Last Period
DSL_LY	LAG(CSM.DSL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Level Last Year
DSL_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.DSL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Level % Chnage Last Year
DSL_YTD	SUM(CSM.DSL) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Downlink Signal Level YTD
DSL_YTD_LY	LAG(CSM.DSL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Level YTD Last Year
DSL_YTD_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.DSL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Level YTD % Chnage Last Year
DSQ_LP	LAG(CSM.DSQ, 1) OVER HIERARCHY ("TIME".HTBSNS)	Downlink Signal Quality Last Period
DSQ_LY	LAG(CSM.DSQ, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Quality Last Year
DSQ_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.DSQ, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Quality % Chage Last Year
DSQ_YTD	SUM(CSM.DSQ) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Downlink Signal Quality YTD
DSQ_YTD_LY	LAG(CSM.DSQ_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Quality YTD Last Year
DSQ_YTD_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.DSQ_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Downlink Signal Quality YTD % Chage Last Year
EOP_COE	OLAP_DML_EXPRESSION('CSM_COE1(time if time_levelrel eq ''BSNS_MO'' then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP Cell Offered Erlangs
EOP_COE_LP	LAG(CSM.EOP_COE, 1) OVER HIERARCHY ("TIME".HTBSNS)	EOP Cell Offered Erlangs Last Period
EOP_COE_LY	LAG(CSM.EOP_COE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Cell Offered Erlangs Last Year
EOP_COE_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.EOP_COE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Cell Offered Erlangs % Change Last Year
EOP_COE_YTD	SUM(CSM.EOP_COE) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	EOP Cell Offered Erlangs YTD
EOP_COE_YTD_LY	LAG(CSM.EOP_COE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Cell Offered Erlangs YTD Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
EOP_COE_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.EOP_COE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Cell Offered Erlangs % Change Last Year
HU_LP	LAG(CSM.HU, 1) OVER HIERARCHY ("TIME".HTBSNS)	Hour Usage Last Period
HU_LY	LAG(CSM.HU, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Hour Usage Last Year
HU_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.HU, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Hour Usage % Change Last Year
HU_YTD	SUM(CSM.HU) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Hour Usage YTD
HU_YTD_LY	LAG(CSM.HU_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Hour Usage YTD Last Year
HU_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.HU_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Hour Usage YTD % Change Last Year
ICHA_LP	LAG(CSM.ICHA, 1) OVER HIERARCHY ("TIME".HTBSNS)	Intra Cell HO Atm Last Period
ICHA_LY	LAG(CSM.ICHA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Atm Last Year
ICHA_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ICHA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Atm % Chnage Last Year
ICHA_YTD	SUM(CSM.ICHA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Intra Cell HO Atm YTD
ICHA_YTD_LY	LAG(CSM.ICHA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Atm YTD Last Year
ICHA_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ICHA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Atm YTD % Chnage Last Year
ICHL_LP	LAG(CSM.ICHL, 1) OVER HIERARCHY ("TIME".HTBSNS)	Intra Cell HO Los Last Period
ICHL_LY	LAG(CSM.ICHL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Los Last Year
ICHL_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ICHL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Los % Chnage Last Year
ICHL_YTD	SUM(CSM.ICHL) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Intra Cell HO Los YTD
ICHL_YTD_LY	LAG(CSM.ICHL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Los YTD Last Year
ICHL_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ICHL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Los YTD % Chnage Last Year
ICHS_LP	LAG(CSM.ICHS, 1) OVER HIERARCHY ("TIME".HTBSNS)	Intra Cell HO Suc Last Period
ICHS_LY	LAG(CSM.ICHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Suc Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
ICHS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ICHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Suc % Chnage Last Year
ICHS_YTD	SUM(CSM.ICHS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Intra Cell HO Suc YTD
ICHS_YTD_LY	LAG(CSM.ICHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Suc YTD Last Year
ICHS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ICHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Intra Cell HO Suc YTD % Chnage Last Year
ID_LP	LAG(CSM.ID, 1) OVER HIERARCHY ("TIME".HTBSNS)	IMSI Detach Last Period
ID_LY	LAG(CSM.ID, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	IMSI Detach Last Year
ID_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ID, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	IMSI Detach % Change Last Year
ID_YTD	SUM(CSM.ID) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	IMSI Detach YTD
ID_YTD_LY	LAG(CSM.ID_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	IMSI Detach YTD Last Year
ID_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ID_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	IMSI Detach YTD % Change Last Year
IECR_LP	LAG(CSM.IECR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Inv Est Cause Rach Last Period
IECR_LY	LAG(CSM.IECR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Inv Est Cause Rach Last Year
IECR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.IECR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Inv Est Cause Rach % Chnage Last Year
IECR_YTD	SUM(CSM.IECR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Inv Est Cause Rach YTD
IECR_YTD_LY	LAG(CSM.IECR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Inv Est Cause Rach YTD Last Year
IECR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.IECR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Inv Est Cause Rach YTD % Chnage Last Year
IERHS_LP	LAG(CSM.IERHS, 1) OVER HIERARCHY ("TIME".HTBSNS)	I Inter BS HO Suc Last Period
IERHS_LY	LAG(CSM.IERHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Inter BS HO Suc Last Year
IERHS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.IERHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Inter BS HO Suc % Change Last Year
IERHS_YTD	SUM(CSM.IERHS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	I Inter BS HO Suc YTD
IERHS_YTD_LY	LAG(CSM.IERHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Inter BS HO Suc YTD Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
IERHS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.IERHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Inter BS HO Suc YTD % Change Last Year
IRAHC_LP	LAG(CSM.IRAHC, 1) OVER HIERARCHY ("TIME".HTBSNS)	I Intra BS HO Suc Last Period
IRAHC_LY	LAG(CSM.IRAHC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Intra BS HO Suc Last Year
IRAHC_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.IRAHC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Intra BS HO Suc % Change Last Year
IRAHC_YTD	SUM(CSM.IRAHC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	I Intra BS HO Suc YTD
IRAHC_YTD_LY	LAG(CSM.IRAHC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Intra BS HO Suc YTD Last Year
IRAHC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.IRAHC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	I Intra BS HO Suc YTD % Change Last Year
LFRRN_LP	LAG(CSM.LFRRN, 1) OVER HIERARCHY ("TIME".HTBSNS)	LOC FLW REQ NRM Last Period
LFRRN_LY	LAG(CSM.LFRRN, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	LOC FLW REQ NRM Last Year
LFRRN_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LFRRN, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	LOC FLW REQ NRM Last Year
LFRRN_YTD	SUM(CSM.LFRRN) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	LOC FLW REQ NRM YTD
LFRRN_YTD_LY	LAG(CSM.LFRRN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	LOC FLW REQ NRM YTD Last Year
LFRRN_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LFRRN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	LOC FLW REQ NRM YTD % Chnage Last Year
LFRS_LP	LAG(CSM.LFRS, 1) OVER HIERARCHY ("TIME".HTBSNS)	Loc Flw Req SMS Last Period
LFRS_LY	LAG(CSM.LFRS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Loc Flw Req SMS Last Year
LFRS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LFRS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Loc Flw Req SMS % Chnage Last Year
LFRS_YTD	SUM(CSM.LFRS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Loc Flw Req SMS YTD
LFRS_YTD_LY	LAG(CSM.LFRS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Loc Flw Req SMS YTD Last Year
LFRS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LFRS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Loc Flw Req SMS YTD % Chnage Last Year
LS_LP	LAG(CSM.LS, 1) OVER HIERARCHY ("TIME".HTBSNS)	Location Services Last Period
LS_LY	LAG(CSM.LS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Services Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
LS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Services % Chnage Last Year
LS_YTD	SUM(CSM.LS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Location Services YTD
LS_YTD_LY	LAG(CSM.LS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Services Last Year
LS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Services YTD % Chnage Last Year
LU_LP	LAG(CSM.LU, 1) OVER HIERARCHY ("TIME".HTBSNS)	Location Update Last Period
LU_LY	LAG(CSM.LU, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Update Last Year
LU_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LU, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Update % Chnage Last Year
LU_YTD	SUM(CSM.LU) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Location Update YTD
LU_YTD_LY	LAG(CSM.LU_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Update YTD Last Year
LU_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.LU_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Location Update YTD % Chnage Last Year
MTLOS_LP	LAG(CSM.MTLOS, 1) OVER HIERARCHY ("TIME".HTBSNS)	MT LCS ON SDDCH Last Period
MTLOS_LY	LAG(CSM.MTLOS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	MT LCS ON SDDCH Last Year
MTLOS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.MTLOS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	MT LCS ON SDDCH % Change Last Year
MTLOS_YTD	SUM(CSM.MTLOS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	MT LCS ON SDDCH YTD
MTLOS_YTD_LY	LAG(CSM.MTLOS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	MT LCS ON SDDCH YTD Last Year
MTLOS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.MTLOS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	MT LCS ON SDDCH YTD % Change Last Year
NCA_LP	LAG(CSM.NCA, 1) OVER HIERARCHY ("TIME".HTBSNS)	Number Of Call Attempts Last Period
NCA_LY	LAG(CSM.NCA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Call Attempts Last Year
NCA_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NCA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Call Attempts % Chnage Last Year
NCA_YTD	SUM(CSM.NCA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Number Of Call Attempts YTD

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
NCA_YTD_LY	LAG(CSM.NCA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Call Attempts YTD Last Year
NCA_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NCA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Call Attempts YTD % Chnage Last Year
NCAWT_LP	LAG(CSM.NCAWT, 1) OVER HIERARCHY ("TIME".HTBSNS)	Num Call Attemps WO Transit Last Period
NCAWT_LY	LAG(CSM.NCAWT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Num Call Attemps WO Transit Last Year
NCAWT_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NCAWT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Num Call Attemps WO Transit % Chnage Last Year
NCAWT_YTD	SUM(CSM.NCAWT) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Num Call Attemps WO Transit YTD
NCAWT_YTD_LY	LAG(CSM.NCAWT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Num Call Attemps WO Transit YTD Last Year
NCAWT_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NCAWT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Num Call Attemps WO Transit YTD % Chnage Last Year
NOC_LP	LAG(CSM.NOC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Number Of Calls Last Period
NOC_LY	LAG(CSM.NOC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Calls Last Year
NOC_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NOC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Calls % Change Last Year
NOC_YTD	SUM(CSM.NOC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Number Of Calls YTD
NOC_YTD_LY	LAG(CSM.NOC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Calls YTD Last Year
NOC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NOC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Calls YTD % Change Last Year
NOCE_LP	LAG(CSM.NOCE, 1) OVER HIERARCHY ("TIME".HTBSNS)	Number Of Cells Last Period
NOCE_LY	LAG(CSM.NOCE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Cells Last Year
NOCE_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NOCE, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Cells % Change Last Year
NOCE_YTD	SUM(CSM.NOCE) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Number Of Cells YTD
NOCE_YTD_LY	LAG(CSM.NOCE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Cells YTD Last Year
NOCE_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.NOCE_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Number Of Cells YTD % Change Last Year
OAPSR_LP	LAG(CSM.OAPSR, 1) OVER HIERARCHY ("TIME".HTBSNS)	OK ACC PROC SUC R Last Period

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
OAPSR_LY	LAG(CSM.OAPSR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	OK ACC PROC SUC R Last Year
OAPSR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OAPSR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	OK ACC PROC SUC R % Chnage Last Year
OAPSR_YTD	SUM(CSM.OAPSR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	OK ACC PROC SUC R YTD
OAPSR_YTD_LY	LAG(CSM.OAPSR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	OK ACC PROC SUC R YTD Last Year
OAPSR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OAPSR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	OK ACC PROC SUC R % Chnage Last Year
OEREF_LP	LAG(CSM.OEREF, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTER BS EQ FA Last Period
OEREF_LY	LAG(CSM.OEREF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS EQ FA Last Year
OEREF_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OEREF, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS EQ FA % Chnage Last Year
OEREF_YTD	SUM(CSM.OEREF) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTER BS EQ FA YTD
OEREF_YTD_LY	LAG(CSM.OEREF_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS EQ FA YTD Last Year
OEREF_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OEREF_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS EQ FA YTD % Chnage Last Year
OERHA_LP	LAG(CSM.OERHA, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTER BS HO ATM Last Period
OERHA_LY	LAG(CSM.OERHA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO ATM Last Year
OERHA_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OERHA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO ATM % Chnage Last Year
OERHA_YTD	SUM(CSM.OERHA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTER BS HO ATM YTD
OERHA_YTD_LY	LAG(CSM.OERHA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO ATM YTD Last Year
OERHA_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OERHA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO ATM YTD % Chnage Last Year
OERHR_LP	LAG(CSM.OERHR, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTER BS HO RET Last Period
OERHR_LY	LAG(CSM.OERHR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO RET Last Year
OERHR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OERHR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO RET % Chnage Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
OERHR_YTD	SUM(CSM.OERHR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTER BS HO RET YTD
OERHR_YTD_LY	LAG(CSM.OERHR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO RET YTD Last Year
OERHR_YTD_LY_ PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OERHR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO RET YTD % Chnage Last Year
OERHS_LP	LAG(CSM.OERHS, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTER BS HO SUC YTD Last Period
OERHS_LY	LAG(CSM.OERHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO SUC YTD Last Year
OERHS_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.OERHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO SUC % Change Last Year
OERHS_YTD	SUM(CSM.OERHS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTER BS HO SUC YTD
OERHS_YTD_LY	LAG(CSM.OERHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO SUC YTD Last Year
OERHS_YTD_LY_ PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OERHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS HO SUC YTD % Change Last Year
OERRM_LP	LAG(CSM.OERRM, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTER BS RQ MSC Last Period
OERRM_LY	LAG(CSM.OERRM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS RQ MSC Last Year
OERRM_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.OERRM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS RQ MSC % Chnage Last Year
OERRM_YTD	SUM(CSM.OERRM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTER BS RQ MSC YTD
OERRM_YTD_LY	LAG(CSM.OERRM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS RQ MSC YTD Last Year
OERRM_YTD_LY_ PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OERRM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTER BS RQ MSC YTD % Chnage Last Year
OHCA_LP	LAG(CSM.OHCA, 1) OVER HIERARCHY ("TIME".HTBSNS)	Out HO Cause Attempts Last Period
OHCA_LY	LAG(CSM.OHCA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Out HO Cause Attempts Last Year
OHCA_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(CSM.OHCA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Out HO Cause Attempts % Chnage Last Year
OHCA_YTD	SUM(CSM.OHCA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Out HO Cause Attempts YTD
OHCA_YTD_LY	LAG(CSM.OHCA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Out HO Cause Attempts YTD Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
OHCA_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.OHCA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Out HO Cause Attempts YTD % Chnage Last Year
ORAHA_LP	LAG(CSM.ORAHA, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTRA BS HO ATM Last Period
ORAHA_LY	LAG(CSM.ORAHA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO ATM Last Year
ORAHA_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO ATM % Chnage Last Year
ORAHA_YTD	SUM(CSM.ORAHA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTRA BS HO ATM YTD
ORAHA_YTD_LY	LAG(CSM.ORAHA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO ATM YTD Last Year
ORAHA_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO ATM YTD % Chnage Last Year
ORAHC_LP	LAG(CSM.ORAHC, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTRA BS HO CLR Last Period
ORAHC_LY	LAG(CSM.ORAHC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO CLR Last Year
ORAHC_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO CLR % Chnage Last Year
ORAHC_YTD	SUM(CSM.ORAHC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTRA BS HO CLR YTD
ORAHC_YTD_LY	LAG(CSM.ORAHC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO CLR YTD Last Year
ORAHC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO CLR YTD % Chnage Last Year
ORAHL_LP	LAG(CSM.ORAHL, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTRA BS HO LOS Last Period
ORAHL_LY	LAG(CSM.ORAHL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO LOS Last Year
ORAHL_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO LOS % Chnage Last Year
ORAHL_YTD	SUM(CSM.ORAHL) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTRA BS HO LOS YTD
ORAHL_YTD_LY	LAG(CSM.ORAHL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO LOS YTD Last Year
ORAHL_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO LOS YTD % Chnage Last Year
ORAHS_LP	LAG(CSM.ORAHS, 1) OVER HIERARCHY ("TIME".HTBSNS)	O INTRA BS HO SUC YTD Last Period

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
ORAHS_LY	LAG(CSM.ORAHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO SUC YTD Last Year
ORAHS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO SUC % Chnage Last Year
ORAHS_YTD	SUM(CSM.ORAHS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	O INTRA BS HO SUC YTD
ORAHS_YTD_LY	LAG(CSM.ORAHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO SUC YTD Last Year
ORAHS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.ORAHS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	O INTRA BS HO SUC YTD % Chnage Last Year
PBSS_LP	LAG(CSM.PBSS, 1) OVER HIERARCHY ("TIME".HTBSNS)	Power Budget Signal Strength Last Period
PBSS_LY	LAG(CSM.PBSS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Power Budget Signal Strength Last Year
PBSS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.PBSS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Power Budget Signal Strength % Chnage Last Year
PBSS_YTD	SUM(CSM.PBSS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Power Budget Signal Strength YTD
PBSS_YTD_LY	LAG(CSM.PBSS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Power Budget Signal Strength YTD Last Year
PBSS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.PBSS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Power Budget Signal Strength YTD % Chnage Last Year
PR_LP	LAG(CSM.PR, 1) OVER HIERARCHY ("TIME".HTBSNS)	Page Response Last Period
PR_LY	LAG(CSM.PR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Response Last Year
PR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.PR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Response % Change Last Year
PR_YTD	SUM(CSM.PR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Page Response YTD
PR_YTD_LY	LAG(CSM.PR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Response YTD Last Year
PR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.PR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Response YTD % Change Last Year
PRFM_LP	LAG(CSM.PRFM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Page Req From MSC Last Period
PRFM_LY	LAG(CSM.PRFM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Req From MSC Last Year
PRFM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.PRFM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Req From MSC % Change Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
PRFM_YTD	SUM(CSM.PRFM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Page Req From MSC YTD
PRFM_YTD_LY	LAG(CSM.PRFM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Req From MSC YTD Last Year
PRFM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.PRFM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Page Req From MSC YTD % Change Last Year
RANK_ACI_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ACI DESC NULLS LAST WITHIN PARENT)	Adjacent Channel Interference Rank of POPT Parent
RANK_ACI_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ACI DESC NULLS LAST WITHIN PARENT)	Adjacent Channel Interference Rank of TSLT Parent
RANK_ACM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ACM DESC NULLS LAST WITHIN PARENT)	Air Call Minutes Rank of POPT Parent
RANK_ACM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ACM DESC NULLS LAST WITHIN PARENT)	Air Call Minutes Rank of TSLT Parent
RANK_ADDB_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ADDB DESC NULLS LAST WITHIN PARENT)	Air DL Data Blks Rank of POPT Parent
RANK_ADDB_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ADDB DESC NULLS LAST WITHIN PARENT)	Air DL Data Blks Rank of TSLT Parent
RANK_AR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.AR DESC NULLS LAST WITHIN PARENT)	Assign Redirect Rank of POPT Parent
RANK_AR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.AR DESC NULLS LAST WITHIN PARENT)	Assign Redirect Rank of TSLT Parent
RANK_ASF_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ASF DESC NULLS LAST WITHIN PARENT)	ALLOC SDCCH Fail Rank of POPT Parent
RANK_ASF_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ASF DESC NULLS LAST WITHIN PARENT)	ALLOC SDCCH Fail Rank of TSLT Parent
RANK_ASM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ASM DESC NULLS LAST WITHIN PARENT)	Available SDCCH Max Rank of POPT Parent
RANK_ASM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ASM DESC NULLS LAST WITHIN PARENT)	Available SDCCH Max Rank of TSLT Parent
RANK_AT_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM."AT" DESC NULLS LAST WITHIN PARENT)	Alloc Tch Rank of POPT Parent
RANK_AT_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM."AT" DESC NULLS LAST WITHIN PARENT)	Alloc Tch Rank of TSLT Parent
RANK_ATF_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ATF DESC NULLS LAST WITHIN PARENT)	Alloc TCH Fail Rank of POPT Parent
RANK_ATF_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ATF DESC NULLS LAST WITHIN PARENT)	Alloc TCH Fail Rank of TSLT Parent
RANK_ATM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ATM DESC NULLS LAST WITHIN PARENT)	O INTER BS HO ATM Rank of POPT Parent
RANK_ATM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ATM DESC NULLS LAST WITHIN PARENT)	O INTER BS HO ATM Rank of TSLT Parent
RANK_AUDB_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.AUDB DESC NULLS LAST WITHIN PARENT)	Air UL Data Blks Rank of POPT Parent
RANK_AUDB_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.AUDB DESC NULLS LAST WITHIN PARENT)	Air UL Data Blks Rank of TSLT Parent
RANK_BSM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.BSM DESC NULLS LAST WITHIN PARENT)	Busy SDCCH Max Rank of POPT Parent
RANK_BSM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.BSM DESC NULLS LAST WITHIN PARENT)	Busy SDCCH Max Rank of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
RANK_BTM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.BTM DESC NULLS LAST WITHIN PARENT)	Busy TCH Max Rank of POPT Parent
RANK_BTM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.BTM DESC NULLS LAST WITHIN PARENT)	Busy TCH Max Rank of TSLT Parent
RANK_CCE_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CCE DESC NULLS LAST WITHIN PARENT)	Cell Carried Erlangs Rank of POPT Parent
RANK_CCE_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CCE DESC NULLS LAST WITHIN PARENT)	Cell Carried Erlangs Rank of TSLT Parent
RANK_CD_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CD DESC NULLS LAST WITHIN PARENT)	Call Duration Rank of POPT Parent
RANK_CD_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CD DESC NULLS LAST WITHIN PARENT)	Call Duration Rank of TSLT Parent
RANK_CHRR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CHRR DESC NULLS LAST WITHIN PARENT)	Channel Reqs Rec Rank of POPT Parent
RANK_CHRR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CHRR DESC NULLS LAST WITHIN PARENT)	Channel Reqs Rec Rank of TSLT Parent
RANK_CISC_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CISC DESC NULLS LAST WITHIN PARENT)	Congestion In Source Cell Rank of POPT Parent
RANK_CISC_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CISC DESC NULLS LAST WITHIN PARENT)	Congestion In Source Cell Rank of TSLT Parent
RANK_CNNTS_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CNNTS DESC NULLS LAST WITHIN PARENT)	Connections Rank of POPT Parent
RANK_CNNTS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CNNTS DESC NULLS LAST WITHIN PARENT)	Connections Rank of TSLT Parent
RANK_CONNR_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CONNR DESC NULLS LAST WITHIN PARENT)	Connection Refuse Share of POPT Parent
RANK_CONNR_ TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CONNR DESC NULLS LAST WITHIN PARENT)	Connection Refuse Rank of TSLT Parent
RANK_CR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CR DESC NULLS LAST WITHIN PARENT)	CM Reestablish Rank of POPT Parent
RANK_CR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CR DESC NULLS LAST WITHIN PARENT)	CM Reestablish Rank of TSLT Parent
RANK_CRFR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CRFR DESC NULLS LAST WITHIN PARENT)	CHAN REQ FAIL ROL Rank of POPT Parent
RANK_CRFR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CRFR DESC NULLS LAST WITHIN PARENT)	CHAN REQ FAIL ROL Rank of TSLT Parent
RANK_CRMB_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CRMB DESC NULLS LAST WITHIN PARENT)	Chan Req MS Blk Rank of POPT Parent
RANK_CRMB_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CRMB DESC NULLS LAST WITHIN PARENT)	Chan Req MS Blk Rank of TSLT Parent
RANK_CRR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CRR DESC NULLS LAST WITHIN PARENT)	Channel Reqs Reject Rank of POPT Parent
RANK_CRR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CRR DESC NULLS LAST WITHIN PARENT)	Channel Reqs Reject Rank of TSLT Parent
RANK_CSRC_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CSRC DESC NULLS LAST WITHIN PARENT)	CM Serv Req Call Rank of POPT Parent
RANK_CSRC_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CSRC DESC NULLS LAST WITHIN PARENT)	CM Serv Req Call rank of TSLT Parent
RANK_CSRE_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CSRE DESC NULLS LAST WITHIN PARENT)	CM Serv Req Emrg Rank of POPT Parent
RANK_CSRE_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CSRE DESC NULLS LAST WITHIN PARENT)	CM Serv Req Emrg Rank of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
RANK_CSRS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CSRS DESC NULLS LAST WITHIN PARENT)	CM Serv Req SMS Rank of POPT Parent
RANK_CSRS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CSRS DESC NULLS LAST WITHIN PARENT)	CM Serv Req SMS Rank of TSLT Parent
RANK_CSRSP_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.CSRSP DESC NULLS LAST WITHIN PARENT)	CM Serv Req Supp Rank of POPT Parent
RANK_CSRSP_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.CSRSP DESC NULLS LAST WITHIN PARENT)	CM Serv Req Supp Rank of TSLT Parent
RANK_DSL_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.DSL DESC NULLS LAST WITHIN PARENT)	Downlink Signal Rank Share of POPT Parent
RANK_DSL_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.DSL DESC NULLS LAST WITHIN PARENT)	Downlink Signal Level Share of TSLT Parent
RANK_DSQ_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.DSQ DESC NULLS LAST WITHIN PARENT)	Downlink Signal Quality Rank of POPT Parent
RANK_DSQ_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.DSQ DESC NULLS LAST WITHIN PARENT)	Downlink Signal Quality Rank of TSLT Parent
RANK_EOP_COE_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.EOP_COE DESC NULLS LAST WITHIN PARENT)	EOP Cell Offered Erlangs Rank of POPT Parent
RANK_EOP_COE_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.EOP_COE DESC NULLS LAST WITHIN PARENT)	EOP Cell Offered Erlangs Rank of TSLT Parent
RANK_HU_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.HU DESC NULLS LAST WITHIN PARENT)	Hour Usage Rank of POPT Parent
RANK_HU_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.HU DESC NULLS LAST WITHIN PARENT)	Hour Usage Rank of TSLT Parent
RANK_ICHA_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ICHA DESC NULLS LAST WITHIN PARENT)	Intra Cell HO Atm Rank of POPT Parent
RANK_ICHA_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ICHA DESC NULLS LAST WITHIN PARENT)	Intra Cell HO Atm Rank of TSLT Parent
RANK_ICHL_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ICHL DESC NULLS LAST WITHIN PARENT)	Intra Cell HO Los Rank of POPT Parent
RANK_ICHL_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ICHL DESC NULLS LAST WITHIN PARENT)	Intra Cell HO Los Rank of TSLT Parent
RANK_ICHS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ICHS DESC NULLS LAST WITHIN PARENT)	Intra Cell HO Suc Rank of POPT Parent
RANK_ICHS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ICHS DESC NULLS LAST WITHIN PARENT)	Intra Cell HO Suc Rank of TSLT Parent
RANK_ID_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ID DESC NULLS LAST WITHIN PARENT)	IMSI Detach Rank of POPT Parent
RANK_ID_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ID DESC NULLS LAST WITHIN PARENT)	IMSI Detach Rank of TSLT Parent
RANK_IECR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.IECR DESC NULLS LAST WITHIN PARENT)	IMSI Detach Rank of POPT Parent
RANK_IECR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.IECR DESC NULLS LAST WITHIN PARENT)	IMSI Detach Rank of TSLT Parent
RANK_IERHS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.IERHS DESC NULLS LAST WITHIN PARENT)	I Inter BS HO Suc Rank of POPT Parent
RANK_IERHS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.IERHS DESC NULLS LAST WITHIN PARENT)	I Inter BS HO Suc Rank of TSLT Parent
RANK_IRAHC_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.IRAHC DESC NULLS LAST WITHIN PARENT)	I Intra BS HO Suc Rank of POPT Parent
RANK_IRAHC_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.IRAHC DESC NULLS LAST WITHIN PARENT)	I Intra BS HO Suc Rank of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
RANK_LFRRN_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.LFRRN DESC NULLS LAST WITHIN PARENT)	LOC FLW REQ NRM Rank of POPT Parent
RANK_LFRRN_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.LFRRN DESC NULLS LAST WITHIN PARENT)	LOC FLW REQ NRM Rank of TSLT Parent
RANK_LFRS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.LFRS DESC NULLS LAST WITHIN PARENT)	Loc Flw Req SMS Rank of POPT Parent
RANK_LFRS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.LFRS DESC NULLS LAST WITHIN PARENT)	Loc Flw Req SMS Rank of TSLT Parent
RANK_LS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.LS DESC NULLS LAST WITHIN PARENT)	Location Services Rank of POPT Parent
RANK_LS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.LS DESC NULLS LAST WITHIN PARENT)	Location Services Rank of TSLT Parent
RANK_LU_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.LU DESC NULLS LAST WITHIN PARENT)	Location Update Share of POPT Parent
RANK_LU_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.LU DESC NULLS LAST WITHIN PARENT)	Location Update Share of TSLT Parent
RANK_MTLOS_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.MTLOS DESC NULLS LAST WITHIN PARENT)	MT LCS ON SDDCH Rank of POPT Parent
RANK_MTLOS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.MTLOS DESC NULLS LAST WITHIN PARENT)	MT LCS ON SDDCH Rank of TSLT Parent
RANK_NCA_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.NCA DESC NULLS LAST WITHIN PARENT)	Number Of Call Attempts Rank of POPT Parent
RANK_NCA_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.NCA DESC NULLS LAST WITHIN PARENT)	Number Of Call Attempts Rank of TSLT Parent
RANK_NCAWT_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.NCAWT DESC NULLS LAST WITHIN PARENT)	Num Call Attemps WO Transit Rank of POPT Parent
RANK_NCAWT_ TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.NCAWT DESC NULLS LAST WITHIN PARENT)	Num Call Attemps WO Transit Rank of TSLT Parent
RANK_NOC_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.NOC DESC NULLS LAST WITHIN PARENT)	Number Of Calls Rank of POPT Parent
RANK_NOC_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.NOC DESC NULLS LAST WITHIN PARENT)	Number Of Calls Rank of TSLT Parent
RANK_NOCE_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.NOCE DESC NULLS LAST WITHIN PARENT)	Number Of Cells Rank of POPT Parent
RANK_NOCE_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.NOCE DESC NULLS LAST WITHIN PARENT)	Number Of Cells Rank of TSLT Parent
RANK_OAPSR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OAPSR DESC NULLS LAST WITHIN PARENT)	OK ACC PROC SUC R Rank of POPT Parent
RANK_OAPSR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OAPSR DESC NULLS LAST WITHIN PARENT)	OK ACC PROC SUC R Rank of TSLT Parent
RANK_OEREF_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OEREF DESC NULLS LAST WITHIN PARENT)	OK ACC PROC SUC R Rank of POPT Parent
RANK_OEREF_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OEREF DESC NULLS LAST WITHIN PARENT)	OK ACC PROC SUC R Rank of TSLT Parent
RANK_OERHA_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OERHA DESC NULLS LAST WITHIN PARENT)	O Inter BS HO ATM Rank of POPT Parent
RANK_OERHA_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OERHA DESC NULLS LAST WITHIN PARENT)	O Inter BS HO ATM Rank of TSLT Parent
RANK_OERHR_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OERHR DESC NULLS LAST WITHIN PARENT)	O INTER BS HO RET ATM Rank of POPT Parent
RANK_OERHR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OERHR DESC NULLS LAST WITHIN PARENT)	O INTER BS HO RET ATM Rank of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
RANK_OERHS_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OERHS DESC NULLS LAST WITHIN PARENT)	O INTER BS HO SUC Rank of POPT Parent
RANK_OERHS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OERHS DESC NULLS LAST WITHIN PARENT)	O INTER BS HO SUC Rank of TSLT Parent
RANK_OERRM_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OERRM DESC NULLS LAST WITHIN PARENT)	O INTER BS RQ MSC Rank of POPT Parent
RANK_OERRM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OERRM DESC NULLS LAST WITHIN PARENT)	O INTER BS RQ MSC Rank of TSLT Parent
RANK_OHCA_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.OHCA DESC NULLS LAST WITHIN PARENT)	Out HO Cause Attempts Rank of POPT Parent
RANK_OHCA_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.OHCA DESC NULLS LAST WITHIN PARENT)	Out HO Cause Attempts Rank of TSLT Parent
RANK_ORAHA_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ORAHA DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO ATM Rank of POPT Parent
RANK_ORAHA_ TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ORAHA DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO ATM Rank of TSLT Parent
RANK_ORAHC_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ORAHC DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO CLR Rank of POPT Parent
RANK_ORAHC_ TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ORAHC DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO CLR Rank of TSLT Parent
RANK_ORAHL_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ORAHL DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO LOS Rank of POPT Parent
RANK_ORAHL_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ORAHL DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO LOS Rank of TSLT Parent
RANK_ORAHS_ POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.ORAHS DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO SUC Rank of POPT Parent
RANK_ORAHS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.ORAHS DESC NULLS LAST WITHIN PARENT)	O INTRA BS HO SUC Rank of TSLT Parent
RANK_PBSS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.PBSS DESC NULLS LAST WITHIN PARENT)	Power Budget Signal Strength Rank of POPT Parent
RANK_PBSS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.PBSS DESC NULLS LAST WITHIN PARENT)	Power Budget Signal Strength Rank of TSLT Parent
RANK_PR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.PR DESC NULLS LAST WITHIN PARENT)	Power Budget Signal Strength Rank of POPT Parent
RANK_PR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.PR DESC NULLS LAST WITHIN PARENT)	Power Budget Signal Strength Rank of TSLT Parent
RANK_PRFM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.PRFM DESC NULLS LAST WITHIN PARENT)	Page Req From MSC Rank of POPT Parent
RANK_PRFM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.PRFM DESC NULLS LAST WITHIN PARENT)	Page Req From MSC Rank of TSLT Parent
RANK_RLTR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.RLTR DESC NULLS LAST WITHIN PARENT)	RF Loss TCH Roll Rank of POPT Parent
RANK_RLTR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.RLTR DESC NULLS LAST WITHIN PARENT)	RF Loss TCH Roll Rank of TSLT Parent
RANK_SH_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.SH DESC NULLS LAST WITHIN PARENT)	ALLOC SDCCH Rank of POPT Parent
RANK_SH_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.SH DESC NULLS LAST WITHIN PARENT)	ALLOC SDCCH Rank of TSLT Parent
RANK_SIOS_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.SIOS DESC NULLS LAST WITHIN PARENT)	SMS INIT on SDCCH Rank of POPT Parent
RANK_SIOS_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.SIOS DESC NULLS LAST WITHIN PARENT)	SMS INIT on SDCCH Rank of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
RANK_SIOT_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.SIOT DESC NULLS LAST WITHIN PARENT)	SMS INIT on TCH Rank of POPT Parent
RANK_SIOT_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.SIOT DESC NULLS LAST WITHIN PARENT)	SMS INIT on TCH Rank of TSLT Parent
RANK_SPM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.SPM DESC NULLS LAST WITHIN PARENT)	Spare TCH Max Rank of POPT Parent
RANK_SPM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.SPM DESC NULLS LAST WITHIN PARENT)	Spare TCH Max Rank of TSLT Parent
RANK_SSD_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.SSD DESC NULLS LAST WITHIN PARENT)	Signal Source Distance Rank of POPT Parent
RANK_SSD_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.SSD DESC NULLS LAST WITHIN PARENT)	Signal Source Distance Rank of TSLT Parent
RANK_SSM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.SSM DESC NULLS LAST WITHIN PARENT)	Spare SDCCH Max Rank of POPT Parent
RANK_SSM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.SSM DESC NULLS LAST WITHIN PARENT)	Spare SDCCH Max Rank of TSLT Parent
RANK_TCM_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.TCM DESC NULLS LAST WITHIN PARENT)	Total Call Minutes Rank of POPT Parent
RANK_TCM_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.TCM DESC NULLS LAST WITHIN PARENT)	Total Call Minutes Rank of TSLT Parent
RANK_TQR_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.TQR DESC NULLS LAST WITHIN PARENT)	TCH Q Removed Rank of POPT Parent
RANK_TQR_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.TQR DESC NULLS LAST WITHIN PARENT)	TCH Q Removed Rank of TSLT Parent
RANK_TT_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.TT DESC NULLS LAST WITHIN PARENT)	Total Traffic Rank of POPT Parent
RANK_TT_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.TT DESC NULLS LAST WITHIN PARENT)	Total Traffic Share of TSLT Parent
RANK_USL_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.USL DESC NULLS LAST WITHIN PARENT)	Uplink Signal Level Rank of POPT Parent
RANK_USL_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.USL DESC NULLS LAST WITHIN PARENT)	Uplink Signal Level Rank of TSLT Parent
RANK_USQ_POPT	RANK() OVER HIERARCHY (POPT.HPOPT ORDER BY CSM.USQ DESC NULLS LAST WITHIN PARENT)	Uplink Signal Quality Rank of POPT Parent
RANK_USQ_TSLT	RANK() OVER HIERARCHY (TSLT.HTSLT ORDER BY CSM.USQ DESC NULLS LAST WITHIN PARENT)	Uplink Signal Quality Rank of TSLT Parent
RLTR_LP	LAG(CSM.RLTR, 1) OVER HIERARCHY ("TIME".HTBSNS)	RF Loss TCH Roll Last Period
RLTR_LY	LAG(CSM.RLTR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	RF Loss TCH Roll Last Year
RLTR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.RLTR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	RF Loss TCH Roll % Chnage Last Year
RLTR_YTD	SUM(CSM.RLTR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	RF Loss TCH Roll YTD
RLTR_YTD_LY	LAG(CSM.RLTR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	RF Loss TCH Roll YTD Last Year
RLTR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.RLTR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	RF Loss TCH Roll YTD % Chnage Last Year
SH_LP	LAG(CSM.SH, 1) OVER HIERARCHY ("TIME".HTBSNS)	Alloc SDCCH Last Period

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SH_LY	LAG(CSM.SH, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH Last Year
SH_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SH, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH % Chnage Last Year
SH_YTD	SUM(CSM.SH) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Alloc SDCCH YTD
SH_YTD_LY	LAG(CSM.SH_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH YTD Last Year
SH_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SH_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Alloc SDCCH YTD % Chnage Last Year
SHR_ACI_POPT	SHARE(CSM.ACI OF POPT.HPOPT PARENT)	Adjacent Channel Interference Share of POPT Parent
SHR_ACI_TSLT	SHARE(CSM.ACI OF TSLT.HTSLT PARENT)	Adjacent Channel Interference Share of TSLT Parent
SHR_ACM_POPT	SHARE(CSM.ACM OF POPT.HPOPT PARENT)	Air Call Minutes Share of POPT Parent
SHR_ACM_TSLT	SHARE(CSM.ACM OF TSLT.HTSLT PARENT)	Air Call Minutes Share of TSLT Parent
SHR_ADDB_POPT	SHARE(CSM.ADDB OF POPT.HPOPT PARENT)	Air DL Data Blks Share of POPT Parent
SHR_ADDB_TSLT	SHARE(CSM.ADDB OF TSLT.HTSLT PARENT)	Air DL Data Blks Share of TSLT Parent
SHR_AR_POPT	SHARE(CSM.AR OF POPT.HPOPT PARENT)	Assign Redirect Share of POPT Parent
SHR_AR_TSLT	SHARE(CSM.AR OF TSLT.HTSLT PARENT)	Assign Redirect Share of TSLT Parent
SHR_ASF_POPT	SHARE(CSM.ASF OF POPT.HPOPT PARENT)	ALLOC SDCCH Fail Share of POPT Parent
SHR_ASF_TSLT	SHARE(CSM.ASF OF TSLT.HTSLT PARENT)	ALLOC SDCCH Fail Share of TSLT Parent
SHR_ASM_POPT	SHARE(CSM.ASM OF POPT.HPOPT PARENT)	Available SDCCH Max Share of POPT Parent
SHR_ASM_TSLT	SHARE(CSM.ASM OF TSLT.HTSLT PARENT)	Available SDCCH Max Share of TSLT Parent
SHR_AT_POPT	SHARE(CSM."AT" OF POPT.HPOPT PARENT)	Alloc Tch Share of POPT Parent
SHR_AT_TSLT	SHARE(CSM."AT" OF TSLT.HTSLT PARENT)	Alloc Tch Share of TSLT Parent
SHR_ATF_POPT	SHARE(CSM.ATF OF POPT.HPOPT PARENT)	Alloc TCH Fail Share of POPT Parent
SHR_ATF_TSLT	SHARE(CSM.ATF OF TSLT.HTSLT PARENT)	Alloc TCH Fail Share of TSLT Parent
SHR_ATM_POPT	SHARE(CSM.ATM OF POPT.HPOPT PARENT)	O INTER BS HO ATM Share of POPT Parent
SHR_ATM_TSLT	SHARE(CSM.ATM OF TSLT.HTSLT PARENT)	O INTER BS HO ATM Share of POPT Parent
SHR_AUDB_POPT	SHARE(CSM.AUDB OF POPT.HPOPT PARENT)	Air UL Data Blks Share of POPT Parent
SHR_AUDB_TSLT	SHARE(CSM.AUDB OF TSLT.HTSLT PARENT)	Air UL Data Blks Share of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SHR_BSM_POPT	SHARE(CSM.BSM OF POPT.HPOPT PARENT)	Busy SDCCH Max Share of POPT Parent
SHR_BSM_TSLT	SHARE(CSM.BSM OF TSLT.HTSLT PARENT)	Busy SDCCH Max Share of TSLT Parent
SHR_BTM_POPT	SHARE(CSM.BTM OF POPT.HPOPT PARENT)	Busy TCH Max Share of POPT Parent
SHR_BTM_TSLT	SHARE(CSM.BTM OF TSLT.HTSLT PARENT)	Busy TCH Max Share of TSLT Parent
SHR_CCE_POPT	SHARE(CSM.CCE OF POPT.HPOPT PARENT)	Cell Carried Erlangs Share of POPT Parent
SHR_CCE_TSLT	SHARE(CSM.CCE OF TSLT.HTSLT PARENT)	Cell Carried Erlangs Share of TSLT Parent
SHR_CD_POPT	SHARE(CSM.CD OF POPT.HPOPT PARENT)	Call Duration Share of POPT Parent
SHR_CD_TSLT	SHARE(CSM.CD OF TSLT.HTSLT PARENT)	Call Duration Share of TSLT Parent
SHR_CHRR_POPT	SHARE(CSM.CHRR OF POPT.HPOPT PARENT)	Channel Reqs Rec Share of POPT Parent
SHR_CHRR_TSLT	SHARE(CSM.CHRR OF TSLT.HTSLT PARENT)	Channel Reqs Rec Share of TSLT Parent
SHR_CISC_POPT	SHARE(CSM.CISC OF POPT.HPOPT PARENT)	Congestion In Source Cell Share of POPT Parent
SHR_CISC_TSLT	SHARE(CSM.CISC OF TSLT.HTSLT PARENT)	Congestion In Source Cell Share of TSLT Parent
SHR_CNNTS_POPT	SHARE(CSM.CNNTS OF POPT.HPOPT PARENT)	Connections Share of POPT Parent
SHR_CNNTS_TSLT	SHARE(CSM.CNNTS OF TSLT.HTSLT PARENT)	Connections Share of TSLT Parent
SHR_CONNR_POPT	SHARE(CSM.CONNR OF POPT.HPOPT PARENT)	Connection Refuse Share of POPT Parent
SHR_CONNR_TSLT	SHARE(CSM.CONNR OF TSLT.HTSLT PARENT)	Connection Refuse Share of TSLT Parent
SHR_CR_POPT	SHARE(CSM.CR OF POPT.HPOPT PARENT)	CM Reestablish Share of POPT Parent
SHR_CR_TSLT	SHARE(CSM.CR OF TSLT.HTSLT PARENT)	CM Reestablish Share of TSLT Parent
SHR_CRFR_POPT	SHARE(CSM.CRFR OF POPT.HPOPT PARENT)	CHAN REQ FAIL ROL Share of POPT Parent
SHR_CRFR_TSLT	SHARE(CSM.CRFR OF TSLT.HTSLT PARENT)	CHAN REQ FAIL ROL Share of TSLT Parent
SHR_CRMB_POPT	SHARE(CSM.CRMB OF POPT.HPOPT PARENT)	Chan Req MS Blk Share of POPT Parent
SHR_CRMB_TSLT	SHARE(CSM.CRMB OF TSLT.HTSLT PARENT)	Chan Req MS Blk Share of TSLT Parent
SHR_CRR_POPT	SHARE(CSM.CRR OF POPT.HPOPT PARENT)	Channel Reqs Reject Share of POPT Parent
SHR_CRR_TSLT	SHARE(CSM.CRR OF TSLT.HTSLT PARENT)	Channel Reqs Reject Share of TSLT Parent
SHR_CSRC_POPT	SHARE(CSM.CSRC OF POPT.HPOPT PARENT)	CM Serv Req Call Share of POPT Parent
SHR_CSRC_TSLT	SHARE(CSM.CSRC OF TSLT.HTSLT PARENT)	CM Serv Req Call Share of TSLT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SHR_CSRE_POPT	SHARE(CSM.CSRE OF POPT.HPOPT PARENT)	CM Serv Req Emrg Share of POPT Parent
SHR_CSRE_TSLT	SHARE(CSM.CSRE OF TSLT.HTSLT PARENT)	CM Serv Req Emrg Share of TSLT Parent
SHR_CSRS_POPT	SHARE(CSM.CSRS OF POPT.HPOPT PARENT)	CM Serv Req SMS Share of POPT Parent
SHR_CSRS_TSLT	SHARE(CSM.CSRS OF TSLT.HTSLT PARENT)	CM Serv Req SMS Share of TSLT Parent
SHR_CSRSP_POPT	SHARE(CSM.CSRSP OF POPT.HPOPT PARENT)	CM Serv Req Supp Share of POPT Parent
SHR_CSRSP_TSLT	SHARE(CSM.CSRSP OF TSLT.HTSLT PARENT)	CM Serv Req Supp Share of TSLT Parent
SHR_DSL_POPT	SHARE(CSM.DSL OF POPT.HPOPT PARENT)	Downlink Signal Level Share of POPT Parent
SHR_DSL_TSLT	SHARE(CSM.DSL OF TSLT.HTSLT PARENT)	Downlink Signal Level Share of TSLT Parent
SHR_DSQ_POPT	SHARE(CSM.DSQ OF POPT.HPOPT PARENT)	Downlink Signal Quality Share of POPT Parent
SHR_DSQ_TSLT	SHARE(CSM.DSQ OF TSLT.HTSLT PARENT)	Downlink Signal Quality Share of TSLT Parent
SHR_EOP_COE_ POPT	SHARE(CSM.EOP_COE OF POPT.HPOPT PARENT)	EOP Cell Offered Erlangs Share of POPT Parent
SHR_EOP_COE_TSLT	SHARE(CSM.EOP_COE OF TSLT.HTSLT PARENT)	EOP Cell Offered Erlangs Share of TSLT Parent
SHR_HU_POPT	SHARE(CSM.HU OF POPT.HPOPT PARENT)	Hour Usage Share of POPT Parent
SHR_HU_TSLT	SHARE(CSM.HU OF TSLT.HTSLT PARENT)	Hour Usage Share of TSLT Parent
SHR_ICHA_POPT	SHARE(CSM.ICHA OF POPT.HPOPT PARENT)	Intra Cell HO Atm Share of POPT Parent
SHR_ICHA_TSLT	SHARE(CSM.ICHA OF TSLT.HTSLT PARENT)	Intra Cell HO Atm Share of TSLT Parent
SHR_ICHL_POPT	SHARE(CSM.ICHL OF POPT.HPOPT PARENT)	Intra Cell HO Los Share of POPT Parent
SHR_ICHL_TSLT	SHARE(CSM.ICHL OF TSLT.HTSLT PARENT)	Intra Cell HO Los Share of TSLT Parent
SHR_ICHS_POPT	SHARE(CSM.ICHS OF POPT.HPOPT PARENT)	Intra Cell HO Suc Share of POPT Parent
SHR_ICHS_TSLT	SHARE(CSM.ICHS OF TSLT.HTSLT PARENT)	Intra Cell HO Suc Share of TSLT Parent
SHR_ID_POPT	SHARE(CSM.ID OF POPT.HPOPT PARENT)	IMSI Detach Share of POPT Parent
SHR_ID_TSLT	SHARE(CSM.ID OF TSLT.HTSLT PARENT)	IMSI Detach Share of TSLT Parent
SHR_IECR_POPT	SHARE(CSM.IECR OF POPT.HPOPT PARENT)	IMSI Detach Share of POPT Parent
SHR_IECR_TSLT	SHARE(CSM.IECR OF TSLT.HTSLT PARENT)	IMSI Detach Share of TSLT Parent
SHR_IERHS_POPT	SHARE(CSM.IERHS OF POPT.HPOPT PARENT)	I Inter BS HO Suc Share of POPT Parent
SHR_IERHS_TSLT	SHARE(CSM.IERHS OF TSLT.HTSLT PARENT)	I Inter BS HO Suc Share of TSLT Parent
SHR_IRAHC_POPT	SHARE(CSM.IRAHC OF POPT.HPOPT PARENT)	I Intra BS HO Suc Share of POPT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SHR_IRAHC_TSLT	SHARE(CSM.IRAHC OF TSLT.HTSLT PARENT)	I Intra BS HO Suc Share of TSLT Parent
SHR_LFRRN_POPT	SHARE(CSM.LFRRN OF POPT.HPOPT PARENT)	LOC FLW REQ NRM Share of POPT Parent
SHR_LFRRN_TSLT	SHARE(CSM.LFRRN OF TSLT.HTSLT PARENT)	LOC FLW REQ NRM Share of TSLT Parent
SHR_LFRS_POPT	SHARE(CSM.LFRS OF POPT.HPOPT PARENT)	Loc Flw Req SMS Share of POPT Parent
SHR_LFRS_TSLT	SHARE(CSM.LFRS OF TSLT.HTSLT PARENT)	Loc Flw Req SMS Share of TSLT Parent
SHR_LS_POPT	SHARE(CSM.LS OF POPT.HPOPT PARENT)	Location Services Share of POPT Parent
SHR_LS_TSLT	SHARE(CSM.LS OF TSLT.HTSLT PARENT)	Location Services Share of TSLT Parent
SHR_LU_POPT	SHARE(CSM.LU OF POPT.HPOPT PARENT)	Location Update Share of POPT Parent
SHR_LU_TSLT	SHARE(CSM.LU OF TSLT.HTSLT PARENT)	Location Update Share of TSLT Parent
SHR_MTLOS_POPT	SHARE(CSM.MTLOS OF POPT.HPOPT PARENT)	MT LCS ON SDDCH Share of POPT Parent
SHR_MTLOS_TSLT	SHARE(CSM.MTLOS OF TSLT.HTSLT PARENT)	MT LCS ON SDDCH Share of TSLT Parent
SHR_NCA_POPT	SHARE(CSM.NCA OF POPT.HPOPT PARENT)	Number Of Call Attempts Share of POPT Parent
SHR_NCA_TSLT	SHARE(CSM.NCA OF TSLT.HTSLT PARENT)	Number Of Call Attempts Share of TSLT Parent
SHR_NCAWT_POPT	SHARE(CSM.NCAWT OF POPT.HPOPT PARENT)	Num Call Attemps WO Transit Share of POPT Parent
SHR_NCAWT_TSLT	SHARE(CSM.NCAWT OF TSLT.HTSLT PARENT)	Num Call Attemps WO Transit Share of TSLT Parent
SHR_NOC_POPT	SHARE(CSM.NOC OF POPT.HPOPT PARENT)	Number Of Calls Share of POPT Parent
SHR_NOC_TSLT	SHARE(CSM.NOC OF TSLT.HTSLT PARENT)	Number Of Calls Share of TSLT Parent
SHR_NOCE_POPT	SHARE(CSM.NOCE OF POPT.HPOPT PARENT)	Number Of Cells Share of POPT Parent
SHR_NOCE_TSLT	SHARE(CSM.NOCE OF TSLT.HTSLT PARENT)	Number Of Cells Share of TSLT Parent
SHR_OAPSR_POPT	SHARE(CSM.OAPSR OF POPT.HPOPT PARENT)	OK ACC PROC SUC R Share of POPT Parent
SHR_OAPSR_TSLT	SHARE(CSM.OAPSR OF TSLT.HTSLT PARENT)	OK ACC PROC SUC R Share of TSLT Parent
SHR_OEREF_POPT	SHARE(CSM.OEREF OF POPT.HPOPT PARENT)	OK ACC PROC SUC R Share of POPT Parent
SHR_OEREF_TSLT	SHARE(CSM.OEREF OF TSLT.HTSLT PARENT)	OK ACC PROC SUC R Share of TSLT Parent
SHR_OERHA_POPT	SHARE(CSM.OERHA OF POPT.HPOPT PARENT)	O Inter BS HO ATM Share of POPT Parent
SHR_OERHA_TSLT	SHARE(CSM.OERHA OF TSLT.HTSLT PARENT)	O Inter BS HO ATM Share of TSLT Parent
SHR_OERHR_POPT	SHARE(CSM.OERHR OF POPT.HPOPT PARENT)	O INTER BS HO RET ATM Share of POPT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SHR_OERHR_TSLT	SHARE(CSM.OERHR OF TSLT.HTSLT PARENT)	O INTER BS HO RET ATM Share of TSLT Parent
SHR_OERHS_POPT	SHARE(CSM.OERHS OF POPT.HPOPT PARENT)	O INTER BS HO SUC Share of POPT Parent
SHR_OERHS_TSLT	SHARE(CSM.OERHS OF TSLT.HTSLT PARENT)	O INTER BS HO SUC Share of TSLT Parent
SHR_OERRM_POPT	SHARE(CSM.OERRM OF POPT.HPOPT PARENT)	O INTER BS RQ MSC Share of POPT Parent
SHR_OERRM_TSLT	SHARE(CSM.OERRM OF TSLT.HTSLT PARENT)	O INTER BS RQ MSC Share of TSLT Parent
SHR_OHCA_POPT	SHARE(CSM.OHCA OF POPT.HPOPT PARENT)	Out HO Cause Attempts Share of POPT Parent
SHR_OHCA_TSLT	SHARE(CSM.OHCA OF TSLT.HTSLT PARENT)	Out HO Cause Attempts Share of TSLT Parent
SHR_ORAHA_POPT	SHARE(CSM.ORAHA OF POPT.HPOPT PARENT)	O INTRA BS HO ATM Share of POPT Parent
SHR_ORAHA_TSLT	SHARE(CSM.ORAHA OF TSLT.HTSLT PARENT)	O INTRA BS HO ATM Share of TSLT Parent
SHR_ORAHC_POPT	SHARE(CSM.ORAHC OF POPT.HPOPT PARENT)	O INTRA BS HO CLR Share of POPT Parent
SHR_ORAHC_TSLT	SHARE(CSM.ORAHC OF TSLT.HTSLT PARENT)	O INTRA BS HO CLR Share of TSLT Parent
SHR_ORAHL_POPT	SHARE(CSM.ORAHL OF POPT.HPOPT PARENT)	O INTRA BS HO LOS Share of POPT Parent
SHR_ORAHL_TSLT	SHARE(CSM.ORAHL OF TSLT.HTSLT PARENT)	O INTRA BS HO LOS Share of TSLT Parent
SHR_ORAHS_POPT	SHARE(CSM.ORAHS OF POPT.HPOPT PARENT)	O INTRA BS HO SUC Share of POPT Parent
SHR_ORAHS_TSLT	SHARE(CSM.ORAHS OF TSLT.HTSLT PARENT)	O INTRA BS HO SUC Share of TSLT Parent
SHR_PBSS_POPT	SHARE(CSM.PBSS OF POPT.HPOPT PARENT)	Power Budget Signal Strength Share of POPT Parent
SHR_PBSS_TSLT	SHARE(CSM.PBSS OF TSLT.HTSLT PARENT)	Power Budget Signal Strength Share of TSLT Parent
SHR_PR_POPT	SHARE(CSM.PR OF POPT.HPOPT PARENT)	Power Budget Signal Strength Share of POPT Parent
SHR_PR_TSLT	SHARE(CSM.PR OF TSLT.HTSLT PARENT)	Power Budget Signal Strength Share of TSLT Parent
SHR_PRFM_POPT	SHARE(CSM.PRFM OF POPT.HPOPT PARENT)	Page Req From MSC Share of POPT Parent
SHR_PRFM_TSLT	SHARE(CSM.PRFM OF TSLT.HTSLT PARENT)	Page Req From MSC Share of TSLT Parent
SHR_RLTR_POPT	SHARE(CSM.RLTR OF POPT.HPOPT PARENT)	RF Loss TCH Roll Share of POPT Parent
SHR_RLTR_TSLT	SHARE(CSM.RLTR OF TSLT.HTSLT PARENT)	RF Loss TCH Roll Share of TSLT Parent
SHR_SH_POPT	SHARE(CSM.SH OF POPT.HPOPT PARENT)	ALLOC SDCCH Share of POPT Parent
SHR_SH_TSLT	SHARE(CSM.SH OF TSLT.HTSLT PARENT)	ALLOC SDCCH Share of TSLT Parent
SHR_SIOS_POPT	SHARE(CSM.SIOS OF POPT.HPOPT PARENT)	SMS INIT on SDCCH Share of POPT Parent

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SHR_SIOS_TSLT	SHARE(CSM.SIOS OF TSLT.HTSLT PARENT)	SMS INIT on SDCCH Share of TSLT Parent
SHR_SIOT_POPT	SHARE(CSM.SIOT OF POPT.HPOPT PARENT)	SMS INIT on TCH Share of POPT Parent
SHR_SIOT_TSLT	SHARE(CSM.SIOT OF TSLT.HTSLT PARENT)	SMS INIT on TCH Share of TSLT Parent
SHR_SPM_POPT	SHARE(CSM.SPM OF POPT.HPOPT PARENT)	Spare TCH Max Share of POPT Parent
SHR_SPM_TSLT	SHARE(CSM.SPM OF TSLT.HTSLT PARENT)	Spare TCH Max Share of TSLT Parent
SHR_SSD_POPT	SHARE(CSM.SSD OF POPT.HPOPT PARENT)	Signal Source Distance Share of POPT Parent
SHR_SSD_TSLT	SHARE(CSM.SSD OF TSLT.HTSLT PARENT)	Signal Source Distance Share of TSLT Parent
SHR_SSM_POPT	SHARE(CSM.SSM OF POPT.HPOPT PARENT)	Spare SDCCH Max Share of POPT Parent
SHR_SSM_TSLT	SHARE(CSM.SSM OF TSLT.HTSLT PARENT)	Spare SDCCH Max Share of TSLT Parent
SHR_TCM_POPT	SHARE(CSM.TCM OF POPT.HPOPT PARENT)	Total Call Minutes Share of POPT Parent
SHR_TCM_TSLT	SHARE(CSM.TCM OF TSLT.HTSLT PARENT)	Total Call Minutes Share of TSLT Parent
SHR_TQR_POPT	SHARE(CSM.TQR OF POPT.HPOPT PARENT)	TCH Q Removed Share of POPT Parent
SHR_TQR_TSLT	SHARE(CSM.TQR OF TSLT.HTSLT PARENT)	TCH Q Removed Share of TSLT Parent
SHR_TT_POPT	SHARE(CSM.TT OF POPT.HPOPT PARENT)	Total Traffic Share of POPT Parent
SHR_TT_TSLT	SHARE(CSM.TT OF TSLT.HTSLT PARENT)	Total Traffic Share of TSLT Parent
SHR_USL_POPT	SHARE(CSM.USL OF POPT.HPOPT PARENT)	UPLINK SIGNAL LEVEL Share of POPT Parent
SHR_USL_TSLT	SHARE(CSM.USL OF TSLT.HTSLT PARENT)	Uplink Signal Level Share of TSLT Parent
SHR_USQ_POPT	SHARE(CSM.USQ OF POPT.HPOPT PARENT)	Uplink Signal Quality Share of POPT Parent
SHR_USQ_TSLT	SHARE(CSM.USQ OF TSLT.HTSLT PARENT)	Uplink Signal Quality Share of TSLT Parent
SIOS_LP	LAG(CSM.SIOS, 1) OVER HIERARCHY ("TIME".HTBSNS)	SMS INIT on SDCCH Last Period
SIOS_LY	LAG(CSM.SIOS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on SDCCH Last Year
SIOS_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SIOS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on SDCCH % Chnage Last Year
SIOS_YTD	SUM(CSM.SIOS) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	SMS INIT on SDCCH YTD
SIOS_YTD_LY	LAG(CSM.SIOS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sms Init On Sdcch Last Year
SIOS_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SIOS_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on SDCCH YTD % Chnage Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SIOT_LP	LAG(CSM.SIOT, 1) OVER HIERARCHY ("TIME".HTBSNS)	SMS INIT on TCH Last Period
SIOT_LY	LAG(CSM.SIOT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on TCH Last Year
SIOT_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SIOT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on TCH % Chnage Last Year
SIOT_YTD	SUM(CSM.SIOT) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	SMS INIT on TCH YTD
SIOT_YTD_LY	LAG(CSM.SIOT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on TCH YTD Last Year
SIOT_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SIOT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	SMS INIT on TCH YTD % Chnage Last Year
SPM_LP	LAG(CSM.SPM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Spare TCH Max Last Period
SPM_LY	LAG(CSM.SPM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare TCH Max Last Year
SPM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SPM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare TCH Max % Chnage Last Year
SPM_YTD	SUM(CSM.SPM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Spare TCH Max YTD
SPM_YTD_LY	LAG(CSM.SPM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare TCH Max YTD Last Year
SPM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SPM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare TCH Max YTD % Chnage Last Year
SSD_LP	LAG(CSM.SSD, 1) OVER HIERARCHY ("TIME".HTBSNS)	Signal Source Distance Last Period
SSD_LY	LAG(CSM.SSD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Signal Source Distance Last Year
SSD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SSD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Signal Source Distance % Change Last Year
SSD_YTD	SUM(CSM.SSD) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Signal Source Distance YTD
SSD_YTD_LY	LAG(CSM.SSD_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Signal Source Distance YTD Last Year
SSD_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SSD_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Signal Source Distance YTD % Change Last Year
SSM_LP	LAG(CSM.SSM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Spare SDCCH Max Last Period
SSM_LY	LAG(CSM.SSM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare SDCCH Max Last Year
SSM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SSM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare SDCCH Max % Chnage Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
SSM_YTD	SUM(CSM.SSM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Spare SDCCH Max YTD
SSM_YTD_LY	LAG(CSM.SSM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare SDCCH Max YTD Last Year
SSM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.SSM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Spare SDCCH Max YTD % Chnage Last Year
TCM_LP	LAG(CSM.TCM, 1) OVER HIERARCHY ("TIME".HTBSNS)	Total Call Minutes Last Period
TCM_LY	LAG(CSM.TCM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Call Minutes Last Year
TCM_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.TCM, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Call Minutes % Chnage Last Year
TCM_YTD	SUM(CSM.TCM) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Total Call Minutes YTD
TCM_YTD_LY	LAG(CSM.TCM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Call Minutes YTD Last Year
TCM_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.TCM_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Call Minutes YTD % Chnage Last Year
TQR_LP	LAG(CSM.TQR, 1) OVER HIERARCHY ("TIME".HTBSNS)	TCH Q Removed Last Period
TQR_LY	LAG(CSM.TQR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	TCH Q Removed Last Year
TQR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.TQR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	TCH Q Removed % Chnage Last Year
TQR_YTD	SUM(CSM.TQR) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	TCH Q Removed YTD
TQR_YTD_LY	LAG(CSM.TQR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Tch Q Removed Last Year
TQR_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.TQR_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	TCH Q Removed YTD % Chnage Last Year
TT_FCST	CSM_FCST.TT_FCST	Total Traffic Forecas
TT_LP	LAG(CSM.TT, 1) OVER HIERARCHY ("TIME".HTBSNS)	Total Traffic YTD Last Period
TT_LY	LAG(CSM.TT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Traffic YTD Last Year
TT_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.TT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Traffic % Change Last Year
TT_YTD	SUM(CSM.TT) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Total Traffic YTD
TT_YTD_LY	LAG(CSM.TT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Traffic YTD Last Year

Table 9–17 (Cont.) Cell Statistic Cube Derived Measures

Physical Name	Definition	Description
TT_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.TT_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Traffic YTD % Change Last Year
USL_LP	LAG(CSM.USL, 1) OVER HIERARCHY ("TIME".HTBSNS)	Uplink Signal Level Last Period
USL_LY	LAG(CSM.USL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Level Last Year
USL_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.USL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Level % Chnage Last Year
USL_YTD	SUM(CSM.USL) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Uplink Signal Level YTD
USL_YTD_LY	LAG(CSM.USL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Level YTD Last Year
USL_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.USL_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Level YTD % Chnage Last Year
USQ_LP	LAG(CSM.USQ, 1) OVER HIERARCHY ("TIME".HTBSNS)	Uplink Signal Quality Last Period
USQ_LY	LAG(CSM.USQ, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Quality Last Year
USQ_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.USQ, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Quality % Chnage Last Year
USQ_YTD	SUM(CSM.USQ) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Uplink Signal Quality YTD
USQ_YTD_LY	LAG(CSM.USQ_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Quality YTD Last Year
USQ_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(CSM.USQ_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Uplink Signal Quality YTD % Chnage Last Year

Commission Cube: CMSN

This cube is to store the received commissions for sales representatives and dealers for the sales of products and services in the given period. There are various ways and criteria to calculate and give commissions. Information about these ways and criteria are maintained in the commission fact. Individual commission break up is not important from the analytical view point. Hence the commission fact maintains the total commission values by time.

Physical Name: CMSN

Dimensions and Load Level

The fact data of Commission Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–18 Commission Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Product	Product
Commission Type	Commission Type

Aggregation Order/Operator

The Commission Cube will be aggregated by the following order and operators on dimensions

Table 9–19 Commission Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Product	Sum	2
Commission Type	Sum	3

Base Measures

Table 9–20 shows the base measures for this data cube.

Table 9–20 Commission Cube Base Measures

Physical Name	Logical Name	Physical Column
CA	AGREEMENT ARPU	DWA_CMISN_MO.AGRMNT_ARPU
CAL	AGREEMENT ARPU LOCAL	DWA_CMISN_MO.AGRMNT_ARPU_LCL
CAR	AGREEMENT ARPU REPORTING	DWA_CMISN_MO.AGRMNT_ARPU_RPT
CC	CUSTOMERS COUNT	DWA_CMISN_MO.CUSTS_CNT
TR	TOTAL REVENUE	DWA_CMISN_MO.TOT_RVN
TRL	TOTAL REVENUE LOCAL	DWA_CMISN_MO.TOT_RVN_LCL
TRR	TOTAL REVENUE REPORTING	DWA_CMISN_MO.TOT_RVN_RPT

Derived Measures

Table 9–21 shows the possible derived measure of this data cube.

Table 9–21 Commission Cube Derived Measures

Physical Name	Definition	Description
CA_LY	LAG(CMSN.CA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Agreement Arpu Last Year
CAL_LY	LAG(CMSN.CAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Agreement Arpu Local Last Year
CAR_LY	LAG(CMSN.CAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Agreement Arpu Reporting Last Year
CC_LY	LAG(CMSN.CC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Customers Count Last Year

Table 9–21 (Cont.) Commission Cube Derived Measures

Physical Name	Definition	Description
TR_LY	LAG(CMSN.TR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Revenue Last Year
TRL_LY	LAG(CMSN.TRL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Revenue Local Last Year
TRR_LY	LAG(CMSN.TRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Revenue Reporting Last Year

Cost Organizational Cube: COM

This cube is to store aggregated expense information on each business unit inside the carrier. You can use this cube for auditing and budgeting.

Physical Name: COM

Dimensions and Load Level

The fact data of Cost Organizational Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–22 Cost Organizational Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Organization	Organization Business Unit

Aggregation Order/Operator

The Cost Organizational Cube will be aggregated by the following order and operators on dimensions.

Table 9–23 Cost Organizational Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Organization	Sum	2

Base Measures

Table 9–24 shows the base measures for this data cube.

Table 9–24 Cost Organizational Cube Base Measures

Physical Name	Logical Name	Physical Column
AC	ADVERTISING COST	DWA_COST_CNTR_MO.ADVR_COST
ACL	ADVERTISING COST LOCAL	DWA_COST_CNTR_MO.ADVR_COST_LCL
ACR	ADVERTISING COST REPORT	DWA_COST_CNTR_MO.ADVR_COST_RPT
CAC	CONTROLLING ATTRITION COST	DWA_COST_CNTR_MO.CONTRLNG_ATTRTN_COST
CACL	CONTROLLING ATTRITION COST LOCAL	DWA_COST_CNTR_MO.CONTRLNG_ATTRTN_COST_LCL
CACR	CONTROLLING ATTRITION COST REPORT	DWA_COST_CNTR_MO.CONTRLNG_ATTRTN_COST_RPT
CB	COST BUDGET	DWA_COST_CNTR_MO.COST_BDGT
CBL	COST BUDGET LOCAL	DWA_COST_CNTR_MO.COST_BDGT_LCL

Table 9–24 (Cont.) Cost Organizational Cube Base Measures

Physical Name	Logical Name	Physical Column
CBR	COST BUDGET REPORT	DWA_COST_CNTR_MO.COST_BDGT_RPT
IC	INVESTMENT COST	DWA_COST_CNTR_MO.INVSTMNT_COST
ICL	INVESTMENT COST LOCAL	DWA_COST_CNTR_MO.INVSTMNT_COST_LCL
ICR	INVESTMENT COST REPORT	DWA_COST_CNTR_MO.INVSTMNT_COST_RPT
OC	OPERATING COST	DWA_COST_CNTR_MO.OPERTNG_COST
OTRC	OTHR COST	DWA_COST_CNTR_MO.OTHR_COST
OTRCL	OTHR COST LOCAL	DWA_COST_CNTR_MO.OTHR_COST_LCL
OTRCR	OTHR COST REPORT	DWA_COST_CNTR_MO.OTHR_COST_RPT
TC	TOTAL COST	DWA_COST_CNTR_MO.TOT_COST
TCL	TOTAL COST LOCAL	DWA_COST_CNTR_MO.TOT_COST_LCL
TCR	TOTAL COST REPORT	DWA_COST_CNTR_MO.TOT_COST_RPT

Derived Measures

Table 9–25 shows the possible derived measure of this data cube.

Table 9–25 Cost Organizational Cube Derived Measures

Physical Name	Definition	Description
AC_LY	LAG(COM.AC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Advertising Cost Last Year
AC_YTD	SUM(COM.AC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Advertising Cost YTD
AC_YTD_LY	LAG(COM.AC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Advertising Cost YTD Last Year
ACL_LY	LAG(COM.ACL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Advertising Cost Local Last Year
ACR_LY	LAG(COM.ACR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Advertising Cost Report Last Year
CAC_LY	LAG(COM.CAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Controlling Attrition Cost Last Year
CACL_LY	LAG(COM.CACL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Controlling Attrition Cost Local Last Year
CACR_LY	LAG(COM.CACR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Controlling Attrition Cost Report Last Year
CB_LY	LAG(COM.CB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cost Budget Last Year
CBL_LY	LAG(COM.CBL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cost Budget Local Last Year
CBR_LY	LAG(COM.CBR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Cost Budget Report Last Year
IC_LY	LAG(COM.IC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Investment Cost Last Year
IC_YTD	SUM(COM.IC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Investment Cost YTD
IC_YTD_LY	LAG(COM.IC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Investment Cost YTD Last Year

Table 9–25 (Cont.) Cost Organizational Cube Derived Measures

Physical Name	Definition	Description
IC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(COM.IC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Investment Cost YTD % Change Last Year
ICL_LY	LAG(COM.ICL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Investment Cost Local Last Year
ICR_LY	LAG(COM.ICR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Investment Cost Report Last Year
OC_LY	LAG(COM.OC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operating Cost Last Year
OC_YTD	SUM(COM.OC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Operating Cost YTD
OC_YTD_LY	LAG(COM.OC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operating Cost YTD Last Year
OC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(COM.OC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operating Cost YTD % Change Last Year
OTRC_LY	LAG(COM.OTRC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Othr Cost Last Year
OTRCL_LY	LAG(COM.OTRCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Othr Cost Local Last Year
OTRCR_LY	LAG(COM.OTRCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Othr Cost Report Last Year
RANK_AC_ORG	RANK() OVER HIERARCHY (ORG.HCHAIN ORDER BY COM.AC DESC NULLS LAST WITHIN PARENT)	Advertising Cost Rank of Organization Parent
RANK_IC_ORG	RANK() OVER HIERARCHY (ORG.HCHAIN ORDER BY COM.IC DESC NULLS LAST WITHIN PARENT)	Investment Cost Rank of Organization Parent
RANK_OC_ORG	RANK() OVER HIERARCHY (ORG.HCHAIN ORDER BY COM.OC DESC NULLS LAST WITHIN PARENT)	Operating Cost Rank of Organization Parent
SHR_AC_ORG	SHARE(COM.AC OF ORG.HCHAIN PARENT)	Advertising Cost Share of Organization Parent
SHR_IC_ORG	SHARE(COM.IC OF ORG.HCHAIN PARENT)	Investment Cost Share of Organization Parent
SHR_OC_ORG	SHARE(COM.OC OF ORG.HCHAIN PARENT)	Operating Cost Share of Organization Parent
TC_LY	LAG(COM.TC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cost Last Year
TCL_LY	LAG(COM.TCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cost Local Last Year
TCR_LY	LAG(COM.TCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cost Report Last Year

Cost Product Offering Cube: CCM

This cube stores various cost values incurred by the carrier that are important from the analysis point of view such as subscriber acquisition cost, subscriber retention cost, and so on.

Physical Name: CCM

Dimensions and Load Level

The fact data of Cost Product Offering Cube is loaded from the relational schema at these dimension levels (leaf level).

Table 9–26 Cost Product Offering Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Product Offering	Product Offering

Aggregation Order/Operator

The Cost Product Offering Cube will be aggregated by the following order and operators on dimensions

Table 9–27 Cost Product Offering Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Product Offering	Sum	3

Base Measures

Table 9–28 shows the base measure for this data cube.

Table 9–28 Cost Product Offering Cube Base Measures

Physical Name	Logical Name	Physical Column
ACA	ACQUISITION COMMISSION AGREEMENT	DWA_CUST_COST_MO.ACQSTN_CMISN_AGRMNT
ACAL	ACQUISITION COMMISSION AGREEMENT LOCAL	DWA_CUST_COST_MO.ACQSTN_CMISN_AGRMNT_LCL
ACAR	ACQUISITION COMMISSION AGREEMENT RPT	DWA_CUST_COST_MO.ACQSTN_CMISN_AGRMNT_RPT
ACP	ACQUISITION COMMISSION PREPAY	DWA_CUST_COST_MO.ACQSTN_CMISN_PREPY
ACPL	ACQUISITION COMMISSION PREPAY LOCAL	DWA_CUST_COST_MO.ACQSTN_CMISN_PREPY_LCL
ACPR	ACQUISITION COMMISSION PREPAY REPORTING	DWA_CUST_COST_MO.ACQSTN_CMISN_PREPY_RPT
AHC	ACQUISITION HANDSET COGS	DWA_CUST_COST_MO.ACQSTN_HNDST_COGS
AHCL	ACQUISITION HANDSET COGS LOCAL	DWA_CUST_COST_MO.ACQSTN_HNDST_COGS_LCL
AHCR	ACQUISITION HANDSET COGS REPORTING	DWA_CUST_COST_MO.ACQSTN_HNDST_COGS_RPT
CA	COMMISSION AMOUNT	DWA_CUST_COST_MO.CMISN_AMT
CAL	COMMISSION AMOUNT LOCAL	DWA_CUST_COST_MO.CMISN_AMT_LCL
CAR	COMMISSION AMOUNT REPORTING	DWA_CUST_COST_MO.CMISN_AMT_RPT
CCC	CALL CENTER COST	DWA_CUST_COST_MO.CALL_CNTR_COST
CCCL	CALL CENTER COST LOCAL	DWA_CUST_COST_MO.CALL_CNTR_COST_LCL
CCCR	CALL CENTER COST REPORTING	DWA_CUST_COST_MO.CALL_CNTR_COST_RPT
IC	INTERCONNECT COST	DWA_CUST_COST_MO.INTCONN_COST
ICL	INTERCONNECT COST LOCAL	DWA_CUST_COST_MO.INTCONN_COST_LCL
ICR	INTERCONNECT COST REPORTING	DWA_CUST_COST_MO.INTCONN_COST_RPT
NC	NETWORK COST	DWA_CUST_COST_MO.NTWK_COST
NCL	NETWORK COST LOCAL	DWA_CUST_COST_MO.NTWK_COST_LCL
NCR	NETWORK COST REPORTING	DWA_CUST_COST_MO.NTWK_COST_RPT

Table 9–28 (Cont.) Cost Product Offering Cube Base Measures

Physical Name	Logical Name	Physical Column
OC	OPERATING COST	DWA_CUST_COST_MO.OPERTNG_COST
OCL	OPERATING COST LOCAL	DWA_CUST_COST_MO.OPERTNG_COST_LCL
OCR	OPERATING COST REPORTING	DWA_CUST_COST_MO.OPERTNG_COST_RPT
RC	REMAINING COST	DWA_CUST_COST_MO.RMNG_COST
RCL	REMAINING COST LCL	DWA_CUST_COST_MO.RMNG_COST_LCL
RCR	REMAINING COST RPT	DWA_CUST_COST_MO.RMNG_COST_RPT
RHC	RETENTION HANDSET COGS	DWA_CUST_COST_MO.RTNTN_HNDST_COGS
RHCL	RETENTION HANDSET COGS LOCAL	DWA_CUST_COST_MO.RTNTN_HNDST_COGS_LCL
RHCR	RETENTION HANDSET COGS REPORTING	DWA_CUST_COST_MO.RTNTN_HNDST_COGS_RPT
SAC	SUBSCRIBER AQUISITION COST	DWA_CUST_COST_MO.SBCRBR_AQSTN_COST
SACL	SUBSCRIBER AQUISITION COST LOCAL	DWA_CUST_COST_MO.SBCRBR_AQSTN_COST_LCL
SACR	SUBSCRIBER AQUISITION COST REPORTING	DWA_CUST_COST_MO.SBCRBR_AQSTN_COST_RPT
SC	SELLING COSTS	DWA_CUST_COST_MO.SLNG_COSTS
SCCA	SIM CARD COST AGREEMENT	DWA_CUST_COST_MO.SIM_CARD_COST_AGRMNT
SCCAL	SIM CARD COST AGREEMENT LOCAL	DWA_CUST_COST_MO.SIM_CARD_COST_AGRMNT_LCL
SCCAR	SIM CARD COST AGREEMENT REPORTING	DWA_CUST_COST_MO.SIM_CARD_COST_AGRMNT_RPT
SCL	SELLING COSTS LOCAL	DWA_CUST_COST_MO.SLNG_COSTS_LCL
SCR	SELLING COSTS REPORTING	DWA_CUST_COST_MO.SLNG_COSTS_RPT
SRC	SUBSCRIBER RETENTION COST	DWA_CUST_COST_MO.SBCRBR_RTNTN_COST
SRCL	SUBSCRIBER RETENTION COST LOCAL	DWA_CUST_COST_MO.SBCRBR_RTNTN_COST_LCL
SRCR	SUBSCRIBER RETENTION COST REPORTING	DWA_CUST_COST_MO.SBCRBR_RTNTN_COST_RPT
URC	USAGE RELATED COST	DWA_CUST_COST_MO.USG_RLTD_COST
URCL	USAGE RELATED COST LOCAL	DWA_CUST_COST_MO.USG_RLTD_COST_LCL
URCR	USAGE RELATED COST REPORT	DWA_CUST_COST_MO.USG_RLTD_COST_RPT

Derived Measures

Table 9–29 shows the possible derived measure of this data cube.

Table 9–29 Cost Product Offering Derived Measures

Physical Name	Definition	Description
ACA_LY	LAG(CCM.ACA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Commission Agreement Last Year
ACAL_LY	LAG(CCM.ACAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Commission Agreement Local Last Year
ACAR_LY	LAG(CCM.ACAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Commission Agreement Rpt Last Year
ACP_LY	LAG(CCM.ACP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Commission Prepay Last Year
ACPL_LY	LAG(CCM.ACPL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Commission Prepay Local Last Year
ACPR_LY	LAG(CCM.ACPR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Commission Prepay Reporting Last Year
AHC_LY	LAG(CCM.AHC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Handset Cogs Last Year

Table 9–29 (Cont.) Cost Product Offering Derived Measures

Physical Name	Definition	Description
AHCL_LY	LAG(CCM.AHCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Handset Cogs Local Last Year
AHCR_LY	LAG(CCM.AHCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Acquisition Handset Cogs Reporting Last Year
CA_LY	LAG(CCM.CA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Commission Amount Last Year
CAL_LY	LAG(CCM.CAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Commission Amount Local Last Year
CAR_LY	LAG(CCM.CAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Commission Amount Reporting Last Year
CCC_LY	LAG(CCM.CCC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Center Cost Last Year
CCCL_LY	LAG(CCM.CCCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Center Cost Local Last Year
CCCR_LY	LAG(CCM.CCCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Call Center Cost Reporting Last Year
IC_LY	LAG(CCM.IC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Interconnect Cost Last Year
ICL_LY	LAG(CCM.ICL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Interconnect Cost Local Last Year
ICR_LY	LAG(CCM.ICR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Interconnect Cost Reporting Last Year
NC_LY	LAG(CCM.NC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Network Cost Last Year
NCL_LY	LAG(CCM.NCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Network Cost Local Last Year
NCR_LY	LAG(CCM.NCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Network Cost Reporting Last Year
OC_LY	LAG(CCM.OC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operating Cost Last Year
OCL_LY	LAG(CCM.OCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operating Cost Local Last Year
OCR_LY	LAG(CCM.OCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operating Cost Reporting Last Year
RC_LY	LAG(CCM.RC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Remaining Cost Last Year
RCL_LY	LAG(CCM.RCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Remaining Cost Lcl Last Year
RCR_LY	LAG(CCM.RCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Remaining Cost Rpt Last Year
RHC_LY	LAG(CCM.RHC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Retention Handset Cogs Last Year
RHCL_LY	LAG(CCM.RHCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Retention Handset Cogs Local Last Year
RHCR_LY	LAG(CCM.RHCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Retention Handset Cogs Reporting Last Year
SAC_LY	LAG(CCM.SAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Aquisition Cost Last Year
SACL_LY	LAG(CCM.SACL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Aquisition Cost Local Last Year
SACR_LY	LAG(CCM.SACR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Aquisition Cost Reporting Last Year

Table 9–29 (Cont.) Cost Product Offering Derived Measures

Physical Name	Definition	Description
SC_LY	LAG(CCM.SC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Selling Costs Last Year
SCCA_LY	LAG(CCM.SCCA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sim Card Cost Agreement Last Year
SCCAL_LY	LAG(CCM.SCCAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sim Card Cost Agreement Local Last Year
SCCAR_LY	LAG(CCM.SCCAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sim Card Cost Agreement Reporting Last Year
SCL_LY	LAG(CCM.SCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Selling Costs Local Last Year
SCR_LY	LAG(CCM.SCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Selling Costs Reporting Last Year
SRC_LY	LAG(CCM.SRC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Retention Cost Last Year
SRCL_LY	LAG(CCM.SRCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Retention Cost Local Last Year
SRCR_LY	LAG(CCM.SRCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Retention Cost Reporting Last Year
URC_LY	LAG(CCM.URC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usage Related Cost Last Year
URCL_LY	LAG(CCM.URCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usage Related Cost Local Last Year
URCR_LY	LAG(CCM.URCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usage Related Cost Report Last Year

Customer Acquisition Cube: ACM

Customer count summary for each month and product.

Physical Name: ACM

Dimensions and Load Level

The fact data of Customer Acquisition Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–30 Customer Acquisition Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Product	Product
Product Offering	Product Offering
Geography	County

Aggregation Order/Operator

The Customer Acquisition Cube will be aggregated by the following order and operators on dimensions.

Table 9–31 Customer Acquisition Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Product	Sum	3
Product Offering	Sum	4
Geography	Sum	5

Base Measures

Table 9–32 shows the base measure for this data cube.

Table 9–32 Customer Acquisition Cube Base Measures

Physical Name	Logical Name	Physical Column
AAC	ACTUAL ACQUISITION COUNT	DWA_CUST_ACQSTN_SUMM_MO.ACT_ACQSTN_CNT
ADC	ACTUAL DEACTIVATIONS COUNT	DWA_CUST_ACQSTN_SUMM_MO.ACT_DEACTVTNS_CNT
ARC	ACTUAL REACTIVATIONS COUNT	DWA_CUST_ACQSTN_SUMM_MO.ACT_REACTVTNS_CNT
ARLDC	ACTUAL RELOAD COUNT	DWA_CUST_ACQSTN_SUMM_MO.ACT_RELOAD_CNT
ARVN	ACTUAL REVENUE	DWA_CUST_ACQSTN_SUMM_MO.ACT_RVN
PAC	PLANNED ACQUISITION COUNT	DWA_CUST_ACQSTN_SUMM_MO.PLND_ACQSTN_CNT
PDC	PLANNED DEACTIVATIONS COUNT	DWA_CUST_ACQSTN_SUMM_MO.PLND_DEACTVTNS_CNT
PRC	PLANNED REACTIVATIONS COUNT	DWA_CUST_ACQSTN_SUMM_MO.PLND_REACTVTNS_CNT
PRLDC	PLANNED RELOAD COUNT	DWA_CUST_ACQSTN_SUMM_MO.PLND_RELOAD_CNT
PRVN	PLANNED REVENUE	DWA_CUST_ACQSTN_SUMM_MO.PLND_RVN

Derived Measures

Table 9–33 shows the derived measures for this data cube.

Table 9–33 Customer Acquisition Cube Derived Measures

Physical Name	Definition	Description
AAC_FCST	ACM_FCST.AAC_FCST	Actual Acquisition Count Forecast
AAC_LP	LAG(ACM.AAC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Actual Acquisition Count Last Period
AAC_LY	LAG(ACM.AAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Acquisition Count Last Year
AAC_YTD	SUM(ACM.AAC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Actual Acquisition Count YTD
AAC_YTD_LY	LAG(ACM.AAC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Acquisition Count YTD Last Year
AAC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.AAC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Acquisition Count YTD % Change Last Year
ADC_LP	LAG(ACM.ADC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Actual Deactivation Count Last Period

Table 9–33 (Cont.) Customer Acquisition Cube Derived Measures

Physical Name	Definition	Description
ADC_LY	LAG(ACM.ADC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Deactivation Count Last Year
ADC_YTD	SUM(ACM.ADC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Actual Deactivation Count YTD
ADC_YTD_LY	LAG(ACM.ADC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Deactivation Count YTD Last Year
ADC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.ADC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Deactivation Count YTD % change Last Year
ARC_LP	LAG(ACM.ARC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Actual Reactivation Count Last Period
ARC_LY	LAG(ACM.ARC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reactivation Count Last Year
ARC_YTD	SUM(ACM.ARC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Actual Reactivation Count YTD
ARC_YTD_LY	LAG(ACM.ARC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reactivation Count YTD Last Year
ARC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.ARC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reactivation Count YTD % Change Last Year
ARLDC_LP	LAG(ACM.ARLDC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Actual Reload Count Last Period
ARLDC_LY	LAG(ACM.ARLDC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reload Count Last Year
ARLDC_YTD	SUM(ACM.ARLDC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Actual Reload Count YTD
ARLDC_YTD_LY	LAG(ACM.ARLDC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reload Count YTD Last Year
ARLDC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.ARLDC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reload Count YTD % Change Last Year
ARVN_LP	LAG(ACM.ARVN, 1) OVER HIERARCHY ("TIME".HTBSNS)	Actual Reload Count Last Period
ARVN_LY	LAG(ACM.ARVN, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reload Count Last Year
ARVN_YTD	SUM(ACM.ARVN) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Actual Revenue YTD
ARVN_YTD_LY	LAG(ACM.ARVN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reload Count YTD Last Year
ARVN_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.ARVN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Actual Reload Count YTD % Change Last Year
PAC_LP	LAG(ACM.PAC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Planned Acquisition Count Last Period

Table 9–33 (Cont.) Customer Acquisition Cube Derived Measures

Physical Name	Definition	Description
PAC_LY	LAG(ACM.PAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Acquisition Count Last Year
PAC_YTD	SUM(ACM.PAC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Planned Acquisition Count YTD
PAC_YTD_LY	LAG(ACM.PAC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Acquisition Count YTD Last Year
PAC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.PAC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Acquisition Count YTD % Change Last Year
PDC_LP	LAG(ACM.PDC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Planned Deactivations Count Last Period
PDC_LY	LAG(ACM.PDC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Deactivations Count Last Year
PDC_YTD	SUM(ACM.PDC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Planned Deactivations Count YTD
PDC_YTD_LY	LAG(ACM.PDC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Deactivations Count YTD Last Year
PDC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.PDC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Deactivations Count YTD % change Last Year
PRC_LP	LAG(ACM.PRC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Planned Reactivations Count Last Period
PRC_LY	LAG(ACM.PRC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Reactivations Count Last Year
PRC_YTD	SUM(ACM.PRC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Planned Reactivations Count YTD
PRC_YTD_LY	LAG(ACM.PRC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Reactivations Count YTD Last Year
PRC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.PRC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Reactivations Count YTD % Change Last Year
PRLDC_LP	LAG(ACM.PRLDC, 1) OVER HIERARCHY ("TIME".HTBSNS)	Planned Reload Count Last Period
PRLDC_LY	LAG(ACM.PRLDC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Reload Count Last Year
PRLDC_YTD	SUM(ACM.PRLDC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Planned Reload Count YTD
PRLDC_YTD_LY	LAG(ACM.PRLDC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Reload Count YTD Last Year
PRLDC_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.PRLDC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Reload Count YTD % Change Last Year
PRVN_LP	LAG(ACM.PRVN, 1) OVER HIERARCHY ("TIME".HTBSNS)	Planned Revenue Last Period

Table 9–33 (Cont.) Customer Acquisition Cube Derived Measures

Physical Name	Definition	Description
PRVN_LY	LAG(ACM.PRVN, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Revenue Last Year
PRVN_YTD	SUM(ACM.PRVN) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Planned Revenue YTD
PRVN_YTD_LY	LAG(ACM.PRVN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Revenue YTD Last Year
PRVN_YTD_LY_PCT_CHG	LAG_VARIANCE_PERCENT(ACM.PRVN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Planned Revenue YTD % Change Last Year
RANK_AAC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.AAC DESC NULLS LAST WITHIN PARENT)	Actual Acquisition Count Rank of Customer Type Parent
RANK_AAC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.AAC DESC NULLS LAST WITHIN PARENT)	Actual Acquisition Count Rank of Geography Parent
RANK_ADC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.ADC DESC NULLS LAST WITHIN PARENT)	Actual Deactivation Count Rank of CUSTYP Parent
RANK_ADC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.ADC DESC NULLS LAST WITHIN PARENT)	Actual Deactivation Count Rank of Geography Parent
RANK_ARC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.ARC DESC NULLS LAST WITHIN PARENT)	Actual Reactivation Count Rank of CUSTYP Parent
RANK_ARC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.ARC DESC NULLS LAST WITHIN PARENT)	Actual Reactivation Count Rank of Geography Parent
RANK_ARLDC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.ARLDC DESC NULLS LAST WITHIN PARENT)	Actual Reload Count Rank of CUSTYP Parent
RANK_ARLDC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.ARLDC DESC NULLS LAST WITHIN PARENT)	Actual Reload Count Rank of Geography Parent
RANK_ARVN_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.ARVN DESC NULLS LAST WITHIN PARENT)	Actual Reload Count Rank of CUSTYP Parent
RANK_ARVN_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.ARVN DESC NULLS LAST WITHIN PARENT)	Actual Reload Count Rank of Geography Parent
RANK_PAC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.PAC DESC NULLS LAST WITHIN PARENT)	Planned Acquisition Count Rank of CUSTYP Parent
RANK_PAC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.PAC DESC NULLS LAST WITHIN PARENT)	Planned Acquisition Count Rank of Geography Parent
RANK_PDC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.PDC DESC NULLS LAST WITHIN PARENT)	Planned Deactivations Count Rank of CUSTYP Parent
RANK_PDC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.PDC DESC NULLS LAST WITHIN PARENT)	Planned Deactivations Count Rank of Geography Parent
RANK_PRC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.PRC DESC NULLS LAST WITHIN PARENT)	Planned Reactivations Count Rank of CUSTYP Parent
RANK_PRC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.PRC DESC NULLS LAST WITHIN PARENT)	Planned Reactivations Count Rank of Geography Parent
RANK_PRLDC_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.PRLDC DESC NULLS LAST WITHIN PARENT)	Planned Reload Count Rank of CUSTYP Parent
RANK_PRLDC_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.PRLDC DESC NULLS LAST WITHIN PARENT)	Planned Reload Count Rank of Geography Parent
RANK_PRVN_CUSTYP	RANK() OVER HIERARCHY (CUSTYP.HCUSTYP ORDER BY ACM.PRVN DESC NULLS LAST WITHIN PARENT)	Planned Revenue Rank of CUSTYP Parent
RANK_PRVN_GEO	RANK() OVER HIERARCHY (GEO.HGEO ORDER BY ACM.PRVN DESC NULLS LAST WITHIN PARENT)	Planned Revenue Rank of Geography Parent

Table 9–33 (Cont.) Customer Acquisition Cube Derived Measures

Physical Name	Definition	Description
SHR_AAC_CUSTYP	SHARE(ACM.AAC OF CUSTYP.HCUSTYP PARENT)	Actual Acquisition Count Share of Customer Type Parent
SHR_AAC_GEO	SHARE(ACM.AAC OF GEO.HGEO PARENT)	Actual Acquisition Count Share of Geography Parent
SHR_ADC_CUSTYP	SHARE(ACM.ADC OF CUSTYP.HCUSTYP PARENT)	Actual Deactivation Count Share of CUSTYP Parent
SHR_ADC_GEO	SHARE(ACM.ADC OF GEO.HGEO PARENT)	Actual Deactivation Count Share of Geography Parent
SHR_ARC_CUSTYP	SHARE(ACM.ARC OF CUSTYP.HCUSTYP PARENT)	Actual Reactivation Count Share of CUSTYP Parent
SHR_ARC_GEO	SHARE(ACM.ARC OF GEO.HGEO PARENT)	Actual Reactivation Count Share of Geography Parent
SHR_ARLDC_ CUSTYP	SHARE(ACM.ARLDC OF CUSTYP.HCUSTYP PARENT)	Actual Reload Count Share of CUSTYP Parent
SHR_ARLDC_GEO	SHARE(ACM.ARLDC OF GEO.HGEO PARENT)	Actual Reload Count Share of Geography Parent
SHR_ARVN_CUSTYP	SHARE(ACM.ARVN OF CUSTYP.HCUSTYP PARENT)	Actual Reload Count Share of CUSTYP Parent
SHR_ARVN_GEO	SHARE(ACM.ARVN OF GEO.HGEO PARENT)	Actual Reload Count Share of Geography Parent
SHR_PAC_CUSTYP	SHARE(ACM.PAC OF CUSTYP.HCUSTYP PARENT)	Planned Acquisition Count Share of CUSTYP Parent
SHR_PAC_GEO	SHARE(ACM.PAC OF GEO.HGEO PARENT)	Planned Acquisition Count Share of Geography Parent
SHR_PDC_CUSTYP	SHARE(ACM.PDC OF CUSTYP.HCUSTYP PARENT)	Planned Deactivations Count Share of CUSTYP Parent
SHR_PDC_GEO	SHARE(ACM.PDC OF GEO.HGEO PARENT)	Planned Deactivations Count Share of Geography Parent
SHR_PRC_CUSTYP	SHARE(ACM.PRC OF CUSTYP.HCUSTYP PARENT)	Planned Reactivations Count Share of CUSTYP Parent
SHR_PRC_GEO	SHARE(ACM.PRC OF GEO.HGEO PARENT)	Planned Reactivations Count Share of Geography Parent
SHR_PRLDC_ CUSTYP	SHARE(ACM.PRLDC OF CUSTYP.HCUSTYP PARENT)	Planned Reload Count Share of CUSTYP Parent
SHR_PRLDC_GEO	SHARE(ACM.PRLDC OF GEO.HGEO PARENT)	Planned Reload Count Share of Geography Parent
SHR_PRVN_CUSTYP	SHARE(ACM.PRVN OF CUSTYP.HCUSTYP PARENT)	Planned Revenue Share of CUSTYP Parent
SHR_PRVN_GEO	SHARE(ACM.PRVN OF GEO.HGEO PARENT)	Planned Revenue Share of Geography Parent

Inventory Cube: INV

This cube contains Inventory measures.

Physical Name: INV

Dimensionality

The Inventory Cube is loaded from the relational schema at these dimension levels.

Inventory Cube Dimensions

Dimension Number	OLAP Dimension	OLAP Dimension Type
1	Organization: ORGANIZATION	STANDARD
2	Product: PRODUCT	STANDARD
3	Time: TIME	TIME

Aggregation, Load Information

Inventory Cube Aggregation, Load Information

Order	OLAP Dimension	Operator	Aggregate from Level
1	Organization: ORGANIZATION	SUM	Default
2	Product: PRODUCT	SUM	Default
3	Time: TIME	SUM	Default

Base Measures with Description, Logical Name and Mapping Expression

Inventory Cube Base Measures

Physical Name	Logical Name	Mapping Expression
SR1	*** do not use *** SOH Value (Retail)	DWD_INV_POSN_ITEM_DAY.STCK_ON_HND_RTL_AMT
SU1	*** do not use *** SOH Units	DWD_INV_POSN_ITEM_DAY.STCK_ON_HND_QTY
SV1	*** do not use *** SOH Value (Cost)	DWD_INV_POSN_ITEM_DAY.STCK_ON_HND_BASE_COST_AMT

Derived Measure with Description, Logical Name and Expression / Calculation

Inventory Cube Derived Measures

Physical Name	Expression or Calculation	Description
BOP_SR	OLAP_DML_EXPRESSION('INV_SR1(time_day if time_day_levelrel eq "DAY" then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_day))))', NUMBER)	BOP SOH Value (Retail)
BOP_SU	OLAP_DML_EXPRESSION('INV_SU1(time_day if time_day_levelrel eq "DAY" then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_day))))', NUMBER)	BOP SOH Units
BOP_SV	OLAP_DML_EXPRESSION('INV_SV1(time_day if time_day_levelrel eq "DAY" then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_day))))', NUMBER)	BOP SOH Value (Cost)
EOP_SR	OLAP_DML_EXPRESSION('INV_SR1(time_day if time_day_levelrel eq "DAY" then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_day))))', NUMBER)	EOP SOH Value (Retail)
EOP_SR_LY	LAG(INV.EOP_SR, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Value (Retail) Last Year
EOP_SR_LY_CHG	LAG_VARIANCE(INV.EOP_SR_LY, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Value (Retail) Change Last Year

Physical Name	Expression or Calculation	Description
EOP_SR_LY_PCT_CHG	LAG_VARIANCE_PERCENT(INV.EOP_SR, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Value (Retail) % Change Last Year
EOP_SU	OLAP_DML_EXPRESSION('INV_SU1(time_day if time_day_levelrel eq "DAY" then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_day))))', NUMBER)	EOP SOH Units
EOP_SU_LY	LAG(INV.EOP_SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Units Last Year
EOP_SU_LY_CHG	LAG_VARIANCE(INV.EOP_SU_LY, 1) OVER HIERARCHY (TIME_ DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_ YR POSITION FROM BEGINNING)	EOP SOH Units Change Last Year
EOP_SU_LY_PCT_CHG	LAG_VARIANCE_PERCENT(INV.EOP_SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Units % Change Last Year
EOP_SV	OLAP_DML_EXPRESSION('INV_SV1(time_day if time_day_levelrel eq "DAY" then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_day))))', NUMBER)	EOP SOH Value (Cost)
EOP_SV_LY	LAG(INV.EOP_SV, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Value (Cost) Last Year
EOP_SV_LY_CHG	LAG_VARIANCE(INV.EOP_SV_LY, 1) OVER HIERARCHY (TIME_ DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_ YR POSITION FROM BEGINNING)	EOP SOH Value (Cost) Change Last Year
EOP_SV_LY_PCT_CHG	LAG_VARIANCE_PERCENT(INV.EOP_SV, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP SOH Value (Cost) % Change Last Year
HOW_IS_EOP_SR_G_ YOY	OLAP_DML_EXPRESSION('if inv_eop_sr_ly_pct_chg gt .15 then "GOOD" else if inv_eop_sr_ly_pct_chg lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is EOP SOH Value (Retail) Growth YoY
HOW_IS_EOP_SU_G_ YOY	OLAP_DML_EXPRESSION('if inv_eop_su_ly_pct_chg gt .15 then "GOOD" else if inv_eop_su_ly_pct_chg lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is EOP SOH Units Growth YoY
HOW_IS_EOP_SV_G_ YOY	OLAP_DML_EXPRESSION('if inv_eop_sv_ly_pct_chg gt .15 then "GOOD" else if inv_eop_sv_ly_pct_chg lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is EOP SOH Value (Cost) Growth YoY

Inventory Forecast Cube: INV_FCST

This Cube contains the Inventory Forecast related measures.

Physical Name: INV_FCST

Dimensionality

The Inventory Forecast Cube is NOT loaded from the relational schema. Data for this cube is generated by the OLAP Forecast process.

Inventory Forecast Cube Dimensions

Dimension Number	OLAP Dimension	OLAP Dimension Type
1	Organization: ORGANIZATION	STANDARD
2	Product: PRODUCT	STANDARD

Dimension Number	OLAP Dimension	OLAP Dimension Type
3	Time: TIME	TIME

Aggregation, Load Information

Inventory Forecast Cube Aggregation, Load Information

OLAP Cube	Order	OLAP Dimension	Operator	Aggregate from Level
Inventory Forecast Cube: INV_FCST	1	Organization: ORGANIZATION	SUM	Default
Inventory Forecast Cube: INV_FCST	2	Product: PRODUCT	SUM	Default
Inventory Forecast Cube: INV_FCST	3	Time: TIME	SUM	Default

Base Measures with Description, Logical Name and Mapping Expression

Inventory Forecast Cube Base Measures

Cube Name	Physical Name	Logical Name	Mapping Expression
Inventory Forecast Cube: INV_FCST	SR_FCST	SOH Value (Retail) Forecast	NULL
Inventory Forecast Cube: INV_FCST	SU_FCST	SOH Units Forecast	NULL
Inventory Forecast Cube: INV_FCST	SV_FCST	SOH Value (Cost) Forecast	NULL

Derived Measure with Description, Logical Name and Expression / Calculation

Inventory Forecast Cube Derived Measures

Physical Name	Expression or Calculation	Description
EOP_SR_FCST	OLAP_DML_EXPRESSION('INV_FCST_SR_FCST(time_day if time_day_ levelrel eq ''BSNS_YR'' then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_ day))))', NUMBER)	EOP SOH Value (Retail) Forecast
EOP_SU_FCST	OLAP_DML_EXPRESSION('INV_FCST_SU_FCST(time_day if time_day_ levelrel eq ''BSNS_YR'' then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_ day))))', NUMBER)	EOP SOH Units Forecast
EOP_SV_FCST	OLAP_DML_EXPRESSION('INV_FCST_SV_FCST(time_day if time_day_ levelrel eq ''DAY'' then time_day else statlast(limit(time_day to bottomdescendants using time_day_parentrel time_day(time_day time_ day))))', NUMBER)	EOP SOH Value (Cost) Forecast

Inventory Forecast Statistic Cube: INV_FCST_STTSTC

This Cube contains Inventory Forecast Statistics related Measures.

Physical Name: INV_FCST_STTSTC

Dimensionality

The Inventory ForecastStatistics Cube is NOT loaded from the relational schema. Data for this cube is generated by the OLAP Forecast process.

Inventory Forecast Statistics Cube Dimensions

Dimension Number	OLAP Dimension	OLAP Dimension Type
1	Organization: ORGANIZATION	STANDARD
2	Product: PRODUCT	STANDARD
3	Time: TIME	TIME

Aggregation, Load Information

Inventory Forecast Statistics Cube Aggregation, Load Information

Order	OLAP Dimension	Operator	Aggregate from Level
1	Organization: ORGANIZATION	Non-Additive (Do not summarize)	Default
2	Product: PRODUCT	Non-Additive (Do not summarize)	Default
3	Time: TIME	Non-Additive (Do not summarize)	Default

Base Measures with Description, Logical Name and Mapping Expression

Inventory Forecast Statistics Cube Base Measures

Physical Name	Logical Name	Mapping Expression
SR_STTSTC	SOH Value (Retail) Forecast Statistic	NULL
SU_STTSTC	SOH Units Forecast Statistic	NULL
SV_STTSTC	SOH Value (Cost) Forecast Statistic	NULL

Derived Measure with Description, Logical Name and Expression / Calculation

Inventory Forecast Statistics Cube Derived Measures

Cube Name	Physical Name	Logical Name	Expression / Calculation
-	-	-	-

Invoice Adjustment Cube: IAM

This cube is to store all adjustment made on the invoices. In current design, Adjustment ID & Invoices code serve the primary, therefore, 1 adjustment could make change to multiple invoices.

Physical Name: IAM

Dimensions and Load Level

The fact data of Invoice Adjustment Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–34 Invoice Adjustment Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Invoice Adjustment Reason	Invoice Adjustment Reason

Table 9–34 (Cont.) Invoice Adjustment Cube Dimensions and Load Level

Dimension Name	Load level
Invoice Adjustment Type	Invoice Adjustment Type
Promotion	Promotion
Product	Product
Organization	Organization Business Unit
Geography	County

Aggregation Order/Operator

The Invoice Adjustment Cube will be aggregated by the following order and operators on dimensions.

Table 9–35 Invoice Adjustment Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Invoice Adjustment Reason	Sum	3
Invoice Adjustment Type	Sum	4
Promotion	Sum	5
Product	Sum	6
Organization	Sum	7
Geography	Sum	8

Base Measures

Table 9–36 shows the base measures for this data cube.

Table 9–36 Invoice Adjustment Cube Base Measures

Physical Name	Logical Name	Physical Column
AA	ADJUSTMENT AMOUNT	DWA_INVC_ADJ_MO.ADJ_AMT
AAL	ADJUSTMENT AMOUNT LOCAL	DWA_INVC_ADJ_MO.ADJ_AMT_LCL
AAR	ADJUSTMENT AMOUNT REPORTING	DWA_INVC_ADJ_MO.ADJ_AMT_RPT
AC	ADJUSTMENT COUNT	DWA_INVC_ADJ_MO.ADJ_CNT

Derived Measures

Table 9–37 shows the possible derived measure of this data cube.

Table 9–37 Invoice Adjustment Cube Derived Measures

Physical Name	Definition	Description
AA_LY	LAG(IAM.AA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjustment Amount Last Year
AA_YTD	SUM(IAM.AA) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Adjustment Amount YTD
AA_YTD_LY	LAG(IAM.AA_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjustment Amount YTD Last Year
AAL_LY	LAG(IAM.AAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjustment Amount Local Last Year
AAR_LY	LAG(IAM.AAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjustment Amount Reporting Last Year
AC_LY	LAG(IAM.AC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjustment Count Last Year
AC_YTD	SUM(IAM.AC) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Adjustment Count YTD
AC_YTD_LY	LAG(IAM.AC_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Adjustment Count YTD Last Year

Invoice Customer Type Cube: INVCM

Post paid customers are billed or invoiced for the usage of services on monthly basis. That is, bill for every subscriber based on his package, category, and usage is calculated, printed and sent to the customer account address for payment.

Physical Name: INVCM

Dimensions and Load Level

The fact data of Invoice Customer Type Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–38 Invoice Customer Type Cube Dimensions and Load Level

Dimension Name	Load level	Description
Time	Business Month	
Customer Type	Customer Type	
Product	Product	
Product Offering	Product Offering	
Organization	Organization Business Unit	
Geography	County	

Aggregation Order/Operator

The Invoice Customer Type will be aggregated by the following order and operators on dimensions.

Table 9–39 Invoice Customer Type Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1

Table 9–39 (Cont.) Invoice Customer Type Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Customer Type	Sum	2
Product	Sum	3
Product Offering	Sum	4
Organization	Sum	5
Geography	Sum	6

Base Measures

Table 9–40 shows the base measures for this data cube.

Table 9–40 Invoice Customer Type Base Measures

Physical Name	Logical Name	Physical Column
BA	Bill Amount	DWA_INVC_CUST_TYP.BILL_AMT
BDA	BILLING DISCOUNT AMOUNT	DWA_INVC_MO.BLNG_DISC_AMT
BDAL	BILLING DISCOUNT AMOUNT LOCAL	DWA_INVC_MO.BLNG_DISC_AMT_LCL
BDAR	BILLING DISCOUNT AMOUNT REPORT	DWA_INVC_MO.BLNG_DISC_AMT_RPT
IG	INVOICE GRANTED	DWA_INVC_MO.INVC_GNRTED
LPA	LATE PAYMENT AMOUNT	DWA_INVC_MO.LATE_PYMT_AMT
LPAL	LATE PAYMENT AMOUNT LOCAL	DWA_INVC_MO.LATE_PYMT_AMT_LCL
LPAR	LATE PAYMENT AMOUNT REPORT	DWA_INVC_MO.LATE_PYMT_AMT_RPT
ORA	OTHER REV AMOUNT	DWA_INVC_MO.OTHR_REV_AMT
ORAL	OTHER REV AMOUNT LOCAL	DWA_INVC_MO.OTHR_REV_AMT_LCL
ORAR	OTHER REV AMOUNT REPORT	DWA_INVC_MO.OTHR_REV_AMT_RPT
OTFA	ONE TIME FEE AMOUNT	DWA_INVC_MO.ONE_TIME_FEE_AMT
OTFAL	ONE TIME FEE AMOUNT LOCAL	DWA_INVC_MO.ONE_TIME_FEE_AMT_LCL
OTFAR	ONE TIME FEE AMOUNT REPORT	DWA_INVC_MO.ONE_TIME_FEE_AMT_RPT
OTFHSA	ONE TIME FEE HARDWARE SALE AMOUNT	DWA_INVC_MO.ONE_TIME_FEE_HW_SL_AMT
OTFHSAL	ONE TIME FEE HARDWARE SALE AMOUNT LOCAL	DWA_INVC_MO.ONE_TIME_FEE_HW_SL_AMT_LCL
OTFHSAR	ONE TIME FEE HARDWARE SALE AMOUNT REPORT	DWA_INVC_MO.ONE_TIME_FEE_HW_SL_AMT_RPT
OTFNSA	ONE TIME FEE NONTELCO SRVC AMOUNT	DWA_INVC_MO.ONE_TIME_FEE_NONTELCO_SRVC_AMT
OTNS	ONE TIMFEE NONTELCO SRVCAMOUNTREPORT	DWA_INVC_MO.ONE_TIMFEE_NONTELCO_SRVCAMTRPT
PPURA	PAY PER USE REV AMOUNT	DWA_INVC_MO.PAY_PER_USE_REV_AMT
PPURAL	PAY PER USE REV AMOUNT LOCAL	DWA_INVC_MO.PAY_PER_USE_REV_AMT_LCL
PPURAR	PAY PER USE REV AMOUNT REPORT	DWA_INVC_MO.PAY_PER_USE_REV_AMT_RPT
RFA	RECRNG FEE AMOUNT	DWA_INVC_MO.RECRNG_FEE_AMT
RFAL	RECRNG FEE AMOUNT LOCAL	DWA_INVC_MO.RECRNG_FEE_AMT_LCL
RFAR	RECRNG FEE AMOUNT REPORT	DWA_INVC_MO.RECRNG_FEE_AMT_RPT
RHRFA	RCHRG REV AMOUNT	DWA_INVC_MO.RECRNG_HW_RENT_FEE_AMT
RHRFAL	RCHRG REV AMOUNT LOCAL	DWA_INVC_MO.RECRNG_HW_RENT_FEE_AMT_LCL
RHRFAR	RCHRG REV AMOUNT REPORT	DWA_INVC_MO.RECRNG_HW_RENT_FEE_AMT_RPT

Table 9–40 (Cont.) Invoice Customer Type Base Measures

Physical Name	Logical Name	Physical Column
RNSA	RECRNG NONTELCO SRVC FEE AMOUNT REPORT	DWA_INVC_MO.RECRNG_NONTELCO_SRVCFEE_AMTRPT
RNSFA	RECRNG NONTELCO SRVC FEE AMOUNT	DWA_INVC_MO.RECRNG_NONTELCO_SRVC_FEE_AMT
RRA	REV REDUCTION AMOUNT	DWA_INVC_MO.REV_RDCTN_AMT
RRAL	REV REDUCTION AMOUNT LOCAL	DWA_INVC_MO.REV_RDCTN_AMT_LCL
RRAR	REV REDUCTION AMOUNT REPORT	DWA_INVC_MO.REV_RDCTN_AMT_RPT
TDA	TOTAL DUE AMOUNT	DWA_INVC_MO.TOT_DUE_AMT
TDAL	TOTAL DUE AMOUNT LOCAL	DWA_INVC_MO.TOT_DUE_AMT_LCL
TDAR	TOTAL DUE AMOUNT REPORT	DWA_INVC_MO.TOT_DUE_AMT_RPT
TIA	TOTAL INVOICE AMOUNT	DWA_INVC_MO.TOT_INVC_AMT
TIAL	TOTAL INVOICE AMOUNT LOCAL	DWA_INVC_MO.TOT_INVC_AMT_LCL
TIAR	TOTAL INVOICE AMOUNT REPORT	DWA_INVC_MO.TOT_INVC_AMT_RPT
TIC	TOTAL INVOICE COUNT	DWA_INVC_MO.TOT_INVC_CNT
TTA	TOTAL TAX AMOUNT	DWA_INVC_MO.TOT_TAX_AMT
TTAL	TOTAL TAX AMOUNT LOCAL	DWA_INVC_MO.TOT_TAX_AMT_LCL
TTAR	TOTAL TAX AMOUNT REPORT	DWA_INVC_MO.TOT_TAX_AMT_RPT
UAFPBC	UNPAID AMOUNT FROM PREV BLLG CYCL	DWA_INVC_MO.UNPAID_AMT_FRM_PREV_BLLG_CYCL
UAPCL	UNPID AMOUNT FROM PREVBLLG CYCL LOCAL	DWA_INVC_MO.UNPID_AMTFRM_PREVBLLG_CYCL_LCL
UAPCR	UNPID AMOUNT FROM PREVBLLG CYCL REPORT	DWA_INVC_MO.UNPID_AMTFRM_PREVBLLG_CYCL_RPT
URA	USAGE REV AMOUNT	DWA_INVC_MO.USG_REV_AMT
URAL	USAGE REV AMOUNT LOCAL	DWA_INVC_MO.USG_REV_AMT_LCL
URAR	USAGE REV AMOUNT REPORT	DWA_INVC_MO.USG_REV_AMT_RPT

Derived Measures

Table 9–40 shows the possible derived measure of this data cube.

Table 9–41 Invoice Customer Type Derived Measures

Physical Name	Definition	Description
BDA_LY	LAG(INVCM.BDA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billing Discount Amount Last Year
BDAL_LY	LAG(INVCM.BDAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billing Discount Amount Local Last Year
BDAR_LY	LAG(INVCM.BDAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billing Discount Amount Report Last Year
IAAT	INVCM.TIA + INVCM.TTA	Invoice Amount After Tax
IAAT_LM	LAG(INVCM.IAAT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_MO POSITION FROM BEGINNING)	Invoice Amount After Tax Last Month
IG_LY	LAG(INVCM.IG, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Invoice Granted Last Year
LPA_LY	LAG(INVCM.LPA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Late Payment Amount Last Year

Table 9–41 (Cont.) Invoice Customer Type Derived Measures

Physical Name	Definition	Description
LPAL_LY	LAG(INVCM.LPAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Late Payment Amount Local Last Year
LPAR_LY	LAG(INVCM.LPAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Late Payment Amount Report Last Year
ORA_LY	LAG(INVCM.ORA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Other Rev Amount Last Year
ORAL_LY	LAG(INVCM.ORAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Other Rev Amount Local Last Year
ORAR_LY	LAG(INVCM.ORAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Other Rev Amount Report Last Year
OTFA_LY	LAG(INVCM.OTFA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Amount Last Year
OTFAL_LY	LAG(INVCM.OTFAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Amount Local Last Year
OTFAR_LY	LAG(INVCM.OTFAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Amount Report Last Year
OTFHSA_LY	LAG(INVCM.OTFHSA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Hardware Sale Amount Last Year
OTFHSAL_LY	LAG(INVCM.OTFHSAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Hardware Sale Amount Local Last Year
OTFHSAR_LY	LAG(INVCM.OTFHSAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Hardware Sale Amount Report Last Year
OTFNSA_LY	LAG(INVCM.OTFNSA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Nontelco Srvc Amount Last Year
OTNS_LY	LAG(INVCM.OTNS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Timfee Nontelco Srvcamountreport Last Year
PPURA_LY	LAG(INVCM.PPURA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Pay Per Use Rev Amount Last Year
PPURAL_LY	LAG(INVCM.PPURAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Pay Per Use Rev Amount Local Last Year
PPURAR_LY	LAG(INVCM.PPURAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Pay Per Use Rev Amount Report Last Year
RFA_LY	LAG(INVCM.RFA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Recrng Fee Amount Last Year
RFAL_LY	LAG(INVCM.RFAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Recrng Fee Amount Local Last Year
RFAR_LY	LAG(INVCM.RFAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Recrng Fee Amount Report Last Year

Table 9–41 (Cont.) Invoice Customer Type Derived Measures

Physical Name	Definition	Description
RHRFA_LY	LAG(INVCM.RHRFA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Rchrg Rev Amount Last Year
RHRFAL_LY	LAG(INVCM.RHRFAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Rchrg Rev Amount Local Last Year
RHRFAR_LY	LAG(INVCM.RHRFAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Rchrg Rev Amount Report Last Year
RNSA_LY	LAG(INVCM.RNSA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Recrng Nontelco Srvc Fee Amount Report Last Year
RNSFA_LY	LAG(INVCM.RNSFA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Recrng Nontelco Srvc Fee Amount Last Year
RRA_LY	LAG(INVCM.RRA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Rev Reduction Amount Last Year
RRAL_LY	LAG(INVCM.RRAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Rev Reduction Amount Local Last Year
RRAR_LY	LAG(INVCM.RRAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Rev Reduction Amount Report Last Year
TDA_LY	LAG(INVCM.TDA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Due Amount Last Year
TDAL_LY	LAG(INVCM.TDAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Due Amount Local Last Year
TDAR_LY	LAG(INVCM.TDAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Due Amount Report Last Year
TIA_LM	LAG(INVCM.TIA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_MO POSITION FROM BEGINNING)	Total Invoice Amount Last Month
TIA_LY	LAG(INVCM.TIA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Invoice Amount Last Year
TIAL_LY	LAG(INVCM.TIAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Invoice Amount Local Last Year
TIAR_LY	LAG(INVCM.TIAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Invoice Amount Report Last Year
TIC_LY	LAG(INVCM.TIC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Invoice Count Last Year
TTA_LM	LAG(INVCM.TTA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_MO POSITION FROM BEGINNING)	Total Tax Amount Last Month
TTA_LY	LAG(INVCM.TTA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Tax Amount Last Year
TTAL_LY	LAG(INVCM.TTAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Tax Amount Local Last Year
TTAR_LY	LAG(INVCM.TTAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Tax Amount Report Last Year
UAFPBC_LY	LAG(INVCM.UAFPBC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Unpaid Amount From Prev Bllg Cycl Last Year

Table 9–41 (Cont.) Invoice Customer Type Derived Measures

Physical Name	Definition	Description
UAPCL_LY	LAG(INVCM.UAPCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Unpid Amount From Prevbllg Cycl Local Last Year
UAPCR_LY	LAG(INVCM.UAPCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Unpid Amount From Prevbllg Cycl Report Last Year
URA_LY	LAG(INVCM.URA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usage Rev Amount Last Year
URAL_LY	LAG(INVCM.URAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usage Rev Amount Local Last Year
URAR_LY	LAG(INVCM.URAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usage Rev Amount Report Last Year

Revenue Cube: RVN

This datacube is used to store the monthly summary of the revenue values and its components along with the subscriber base count, which will be used to calculate the ARPU values.

Physical Name: RVN

Dimensions and Load Level

The fact data of Revenue Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–42 Revenue Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Product	Product
Organization	Organization Business Unit
Geography	County

Aggregation Order/Operator

The Revenue Cube will be aggregated by the following order and operators on dimensions.

Table 9–43 Revenue Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Product	Sum	3
Organization	Sum	4
Geography	Sum	5

Base Measures

Table 9–44 shows the base measures for this data cube.

Table 9–44 Revenue Cube Base Measures

Physical Name	Logical Name	Physical Column
AR	AIRTIME REVENUE	DWA_ARPU_BASE_CUST_TYP.AIRTM_RVN
ARL	AIRTIME REVENUE LOCAL	DWA_ARPU_BASE_CUST_TYP.AIRTM_RVN_LCL
ARR	AIRTIME REVENUE REPORTING	DWA_ARPU_BASE_CUST_TYP.AIRTM_RVN_RPT
ASB	AVERAGE SUBSCRIBER BASE	DWA_ARPU_BASE_CUST_TYP.AVG_SBCRBR_BASE
BRL	BILLED REVENUE LOCAL	DWA_ARPU_BASE_CUST_TYP.BLLD_RVN_LCL
BRR	BILLED REVENUE REPORTING	DWA_ARPU_BASE_CUST_TYP.BLLD_RVN_RPT
BRVN	BILLED REVENUE	DWA_ARPU_BASE_CUST_TYP.BLLD_RVN
CA	COMMISSION AMOUNT	DWA_ARPU_BASE_CUST_TYP.CMISN_AMT
CAL	COMMISSION AMOUNT LOCAL	DWA_ARPU_BASE_CUST_TYP.CMISN_AMT_LCL
CAR	COMMISSION AMOUNT REPORTING	DWA_ARPU_BASE_CUST_TYP.CMISN_AMT_RPT
CNT	COUNT	DWA_ARPU_BASE_CUST_TYP.CNT
CUSTCNT	CUSTOMER COUNT	DWA_ARPU_BASE_CUST_TYP.CUST_CNT
NCC	NEW CUSTOMER COUNT	DWA_ARPU_BASE_CUST_TYP.NEW_CUST_CNT
NSC	NEW SUBSCRIBERS COUNT	DWA_ARPU_BASE_CUST_TYP.NEW_SBCRBRS_CNT
OC	OPERATION COST	DWA_ARPU_BASE_CUST_TYP.OPRN_COST
OCL	OPERATION COST LOCAL	DWA_ARPU_BASE_CUST_TYP.OPRN_COST_LCL
OCR	OPERATION COST REPORTING	DWA_ARPU_BASE_CUST_TYP.OPRN_COST_RPT
SAC	SUBSCRIBER ACQUISITION COST	DWA_ARPU_BASE_CUST_TYP.SBCRBR_ACQSTN_COST
SACL	SUBSCRIBER ACQUISITION COST LOCAL	DWA_ARPU_BASE_CUST_TYP.SBCRBR_ACQSTN_COST_LCL
SACR	SUBSCRIBER ACQUISITION COST REPORTING	DWA_ARPU_BASE_CUST_TYP.SBCRBR_ACQSTN_COST_RPT
SBC	SUBSCRIBER BEGIN COUNT	DWA_ARPU_BASE_CUST_TYP.SBCRBR_BEGIN_CNT
SEC	SUBSCRIBER END COUNT	DWA_ARPU_BASE_CUST_TYP.SBCRBR_END_CNT
SLRVN	SALES REVENUE	DWA_ARPU_BASE_CUST_TYP.SL_RVN
SRC	SUBSCRIBER RETENTION COST	DWA_ARPU_BASE_CUST_TYP.SBCRBR_RTNTN_COST
SRCL	SUBSCRIBER RETENTION COST LOCAL	DWA_ARPU_BASE_CUST_TYP.SBCRBR_RTNTN_COST_LCL
SRCR	SUBSCRIBER RETENTION COST REPORTING	DWA_ARPU_BASE_CUST_TYP.SBCRBR_RTNTN_COST_RPT
SRL	SALES REVENUE LOCAL	DWA_ARPU_BASE_CUST_TYP.SL_RVN_LCL
SRR	SALES REVENUE REPORTING	DWA_ARPU_BASE_CUST_TYP.SL_RVN_RPT
TPR	TOTAL REVENUE	DWA_ARPU_BASE_CUST_TYP.TOT_PYMT_RVN
TPRL	TOTAL REVENUE LOCAL	DWA_ARPU_BASE_CUST_TYP.TOT_PYMT_RVN_LCL
TPRR	TOTAL REVENUE REPORTING	DWA_ARPU_BASE_CUST_TYP.TOT_PYMT_RVN_RPT

Derived Measures

Table 9–45 shows the possible derived measure of this data cube.

Table 9–45 Revenue Cube Derived Measures

Physical Name	Definition	Description
AR_LY	LAG(RVN.AR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Airtime Revenue Last Year
ARL_LY	LAG(RVN.ARL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Airtime Revenue Local Last Year
ARR_LY	LAG(RVN.ARR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Airtime Revenue Reporting Last Year
ASB_LY	LAG(RVN.ASB, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Average Subscriber Base Last Year
BRL_LY	LAG(RVN.BRL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Revenue Local Last Year
BRR_LY	LAG(RVN.BRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Revenue Reporting Last Year
BRVN_LY	LAG(RVN.BRVN, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Revenue Last Year
BRVN_YTD	SUM(RVN.BRVN) OVER HIERARCHY ("TIME".HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL "TIME".BSNS_YR)	Billed Revenue Last Year
BRVN_YTD_LY	LAG(RVN.BRVN_YTD, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Revenue YTD Last Year
CA_LY	LAG(RVN.CA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Commission Amount Last Year
CAL_LY	LAG(RVN.CAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Commission Amount Local Last Year
CAR_LY	LAG(RVN.CAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Commission Amount Reporting Last Year
CNT_LY	LAG(RVN.CNT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Count Last Year
CUSTCNT_LY	LAG(RVN.CUSTCNT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Customer Count Last Year
EOP_CUSTCNT	OLAP_DML_EXPRESSION('RVN_CUSTCNT(time if time_levelrel eq ''BSNS_MO'' then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP Customer Count
EOP_CUSTCNT_FCST	RVN_FCST.EOP_CUSTCNT_FCST	EOP Customer Count Forecast
EOP_CUSTCNT_LY	LAG(RVN.EOP_CUSTCNT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	EOP Customer Count Last Year
NCC_LY	LAG(RVN.NCC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Customer Count Last Year
NSC_LY	LAG(RVN.NSC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Subscribers Count Last Year
OC_LY	LAG(RVN.OC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operation Cost Last Year
OCL_LY	LAG(RVN.OCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operation Cost Local Last Year
OCR_LY	LAG(RVN.OCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Operation Cost Reporting Last Year
SAC_LY	LAG(RVN.SAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Acquisition Cost Last Year
SACL_LY	LAG(RVN.SACL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Acquisition Cost Local Last Year

Table 9–45 (Cont.) Revenue Cube Derived Measures

Physical Name	Definition	Description
SACR_LY	LAG(RVN.SACR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Acquisition Cost Reporting Last Year
SBC_LY	LAG(RVN.SBC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Begin Count Last Year
SEC_LY	LAG(RVN.SEC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber End Count Last Year
SHR_EOP_ CUSTCNT_ORG	SHARE(RVN.EOP_CUSTCNT OF ORG.HCHAIN PARENT)	Customer Count Share of ORG Parent
SHR_EOP_ CUSTCNT_PROD	SHARE(RVN.EOP_CUSTCNT OF PROD.HPROD PARENT)	Customer Count Share of Product Parent
SLRVN_LY	LAG(RVN.SLRVN, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Revenue Last Year
SRC_LY	LAG(RVN.SRC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Retention Cost Last Year
SRCL_LY	LAG(RVN.SRCL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Retention Cost Local Last Year
SRCR_LY	LAG(RVN.SRCR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Subscriber Retention Cost Reporting Last Year
SRL_LY	LAG(RVN.SRL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Revenue Local Last Year
SRR_LY	LAG(RVN.SRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Revenue Reporting Last Year
TPR_LY	LAG(RVN.TPR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Revenue Last Year
TPRL_LY	LAG(RVN.TPRL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Revenue Local Last Year
TPRR_LY	LAG(RVN.TPRR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Revenue Reporting Last Year

Subscriber Churn Statistic Cube: CHRN

This cube analyzes the Churned Subscribers based on the subscription status for each product.

Physical Name: CHRN

Dimensions and Load Level

The fact data of Subscriber Churn Statistic Cube will be loaded from the relational schema at these dimension levels(leaf level).

Table 9–46 Subscriber Churn Statistic Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Churn Reason	Churn Reason
Product	Product

Table 9–46 (Cont.) Subscriber Churn Statistic Cube Dimensions and Load Level

Dimension Name	Load level
Product Offering	Product Offering
Organization	Organization Business Unit
Geography	Product Offering

Aggregation Order/Operator

The Subscriber Churn Statistic Cube will be aggregated by the following order and operators on dimensions

Table 9–47 Subscriber Churn Statistic Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Churn Reason	Sum	3
Product	Sum	4
Product Offering	Sum	5
Organization	Sum	6
Geography	Sum	7

Base Measures

Table 9–48 shows the base measures for this data cube.

Table 9–48 Subscriber Chrn Statistic Cube Base Measures

Physical Name	Logical Name	Physical Column
BRA	BILLED RFND AMT	DWA_SBSCBR_STTSTC_MO.BLLD_RFND_AMT
BRAL	BILLED RFND AMT LOCAL	DWA_SBSCBR_STTSTC_MO.BLLD_RFND_AMT_LCL
BRAR	BILLED RFND AMT REPORT	DWA_SBSCBR_STTSTC_MO.BLLD_RFND_AMT_RPT
BTA	BILLED TAX AMT	DWA_SBSCBR_STTSTC_MO.BLLD_TAX_AMT
BTAL	BILLED TAX AMT LOCAL	DWA_SBSCBR_STTSTC_MO.BLLD_TAX_AMT_LCL
BTAR	BILLED TAX AMT REPORT	DWA_SBSCBR_STTSTC_MO.BLLD_TAX_AMT_RPT
BWOA	BILLED WRITE OFF AMT	DWA_SBSCBR_STTSTC_MO.BLLD_WRITE_OFF_AMT
BWOAL	BILLED WRITE OFF AMT LOCAL	DWA_SBSCBR_STTSTC_MO.BLLD_WRITE_OFF_AMT_LCL
BWOAR	BILLED WRITE OFF AMT REPORT	DWA_SBSCBR_STTSTC_MO.BLLD_WRITE_OFF_AMT_RPT
CRI	COUNT ROW ID	DWA_SBSCBR_STTSTC_MO.CNT_ROW_ID
DRI	DISC REVENUE INVOICE CODE	DWA_SBSCBR_STTSTC_MO.DISC_RVN_INVCD
DRIL	DISC REVENUE INVOICE CODE LOCAL	DWA_SBSCBR_STTSTC_MO.DISC_RVN_INVCD_LCL
DRIR	DISC REVENUE INVOICE CODE REPORT	DWA_SBSCBR_STTSTC_MO.DISC_RVN_INVCD_RPT
ER	EXPIRED REVENUE	DWA_SBSCBR_STTSTC_MO.EXPIRED_RVN
ERL	EXPIRED REVENUE LOCAL	DWA_SBSCBR_STTSTC_MO.EXPIRED_RVN_LCL
ERR	EXPIRED REVENUE REPORT	DWA_SBSCBR_STTSTC_MO.EXPIRED_RVN_RPT
ESRI	EQPMNT SL REVENUE INVOICE CODE	DWA_SBSCBR_STTSTC_MO.EQPMNT_SL_RVN_INVCD
ESRIL	EQPMNT SL REVENUE INVOICE CODE LOCAL	DWA_SBSCBR_STTSTC_MO.EQPMNT_SL_RVN_INVCD_LCL

Table 9–48 (Cont.) Subscriber Chrn Statistic Cube Base Measures

Physical Name	Logical Name	Physical Column
ESRIR	EQPMNT SL REVENUE INVOICE CODE REPORT	DWA_SBSCBR_STTSTC_MO.EQPMNT_SL_RVN_INVCD_RPT
IDATC	INVOLUNTARY DACTIVATED ACCESS METHOD THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.INVLTRY_DACTD_AGMT_THSPRD_CNT
IDCTC	INVOLUNTARY DACTIVATED ACCT THISPRD COUNT	DWA_SBSCBR_STTSTC_MO.INVLTRY_DACTD_CUST_THSPRD_CNT
IDPTC	INVOLUNTARY DACTIVATED PODSBP THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.INVLTRY_DACTD_PODSBP_TSPD_CNT
ISATC	INVOLUNTARY DACTIVATED AGREEMENT THISPRD COUNT	DWA_SBSCBR_STTSTC_MO.INVLTRY_SUSPND_AGMT_TSPD_CNT
ISCTC	INVOLUNTARY DACTIVATED CUSTOMER THISPRD COUNT	DWA_SBSCBR_STTSTC_MO.INVLTRY_SUSPND_CUST_TSPD_CNT
ISMSTC	INVOLUNTARY SUSPEND MN SBP THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.INVLTRY_SUSPND_MN_SBP_TSPD_CNT
NAAC	NEW ACTIVATION AGREEMENT COUNT	DWA_SBSCBR_STTSTC_MO.NEW_ACTV_AGMT_CNT
NAAMC	NEW ACTIVATION ACCESS METHOD COUNT	DWA_SBSCBR_STTSTC_MO.NEW_ACTV_ACCS_MTHD_CNT
NAC	NEW ACCT COUNT	DWA_SBSCBR_STTSTC_MO.NEW_ACCT_CNT
NAMPSC	NEW ACTIVATION MN PRODUCT SBSCREPORTN COUNT	DWA_SBSCBR_STTSTC_MO.NEW_ACTV_MN_PROD_SBRP_CNT
NAPSC	NEW ACTIVATION PRODUCT SBSCREPORTN COUNT	DWA_SBSCBR_STTSTC_MO.NEW_ACTV_PROD_SBRP_CNT
NCC	NEW CUSTOMER COUNT	DWA_SBSCBR_STTSTC_MO.NEW_CUST_CNT
ORI	OTHER REVENUE INVOICE CODE	DWA_SBSCBR_STTSTC_MO.OTHR_RVN_INVCD
ORIL	OTHER REVENUE INVOICE CODE LOCAL	DWA_SBSCBR_STTSTC_MO.OTHR_RVN_INVCD_LCL
ORIR	OTHER REVENUE INVOICE CODE REPORT	DWA_SBSCBR_STTSTC_MO.OTHR_RVN_INVCD_RPT
OTFI	ONE TIME FEE INVOICE CODE	DWA_SBSCBR_STTSTC_MO.ONE_TIME_FEE_INVCD
OTFIL	ONE TIME FEE INVOICE CODE LOCAL	DWA_SBSCBR_STTSTC_MO.ONE_TIME_FEE_INVCD_LCL
OTFIR	ONE TIME FEE INVOICE CODE REPORT	DWA_SBSCBR_STTSTC_MO.ONE_TIME_FEE_INVCD_RPT
POL	PRODUCT OFFER LVL	DWA_SBSCBR_STTSTC_MO.PROD_OFR_LVL
PSL	PROD SPEC LEVEL	DWA_SBSCBR_STTSTC_MO.PROD_SPEC_LVL
PSSC	PROD SBSCREPORTN SUSPEND COUNT	DWA_SBSCBR_STTSTC_MO.PROD_SBRP_SUSPND_CNT
PT	PLAN TYPE	DWA_SBSCBR_STTSTC_MO.PLN_TYP
RATPC	REACTIVATIOND AGGREMENT THIS PRD COUNT	DWA_SBSCBR_STTSTC_MO.REACTVD_AGMT_THS_PRD_CNT
RCTPC	REACTIVATIOND CUSTOMER THIS PRD COUNT	DWA_SBSCBR_STTSTC_MO.REACTVD_CUST_THS_PRD_CNT
RMSTPC	REACTIVATIOND MN SBSCREPORTN THIS PRD COUNT	DWA_SBSCBR_STTSTC_MO.REACTVD_MN_SBRP_THS_PRD_CNT
RRI	REVENUE ROW ID	DWA_SBSCBR_STTSTC_MO.RVN_ROW_ID
TAAC	TOTAL ACTIVATION AGGREMENT COUNT	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_AGMT_CNT
TAACWS	TOTAL ACTIVATION AGGREMENT COUNT WITH SLA	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_AGMT_CNT_WITH_SLA
TAAMC	TOTAL ACTIVATION ACCESS METHOD COUNT	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_ACCS_MTHD_CNT

Table 9–48 (Cont.) Subscriber Chrn Statistic Cube Base Measures

Physical Name	Logical Name	Physical Column
TACC	TOTAL ACTIVATION CUSTOMER COUNT	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_CUST_CNT
TACCWS	TOTAL ACTIVATION CUSTOMER COUNT WITH SLA	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_CUST_CNT_WITH_SLA
TAMPSC	TOTAL ACTIVATION MINIMUM PRODUCT SBSCREPORTN COUNT	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_MN_PROD_SBRP_CNT
TAPA	TOTAL ACCT PENDING ACTIVATION	DWA_SBSCBR_STTSTC_MO.TOT_ACCT_PNDNG_ACTVTN
TAPSC	TOTAL ACTIVATION PROD SBSCREPORTN COUNT	DWA_SBSCBR_STTSTC_MO.TOT_ACTV_PROD_SBRP_CNT
TASCUS	TOTAL AVMN SBSCREPORTN COUNT UNDER SLA	DWA_SBSCBR_STTSTC_MO.TOT_AVMN_SBRP_CNT_UNDER_SLA
TCACTP	TOTAL CANCEL ACCOUNT COUNT THIS PRD	DWA_SBSCBR_STTSTC_MO.TOT_CNCL_AGMT_CNT_THS_PRD
TCCCTP	TOTAL CANCEL AGGREMENT COUNT THIS PRD	DWA_SBSCBR_STTSTC_MO.TOT_CNCL_CUST_CNT_THS_PRD
TCPA	TOTAL CUSTOMER PENDING ACTIVATION	DWA_SBSCBR_STTSTC_MO.TOT_CUST_PNDNG_ACTVTN
TCPSCP	TOTAL CANCEL CUSTOMER COUNT THIS PRD	DWA_SBSCBR_STTSTC_MO.TOT_CNCL_PROD_SBRP_CNTTS_PRD
TMPPA	TOTAL CANCEL PRODUCT SBSCREPORTN COUNTTS PRD	DWA_SBSCBR_STTSTC_MO.TOT_MN_PRODSBRP_PNDNG_ACTVTN
URI	USG REVENUE INVOICE CODE	DWA_SBSCBR_STTSTC_MO.USG_RVN_INVCD
URIL	USG REVENUE INVOICE CODE LOCAL	DWA_SBSCBR_STTSTC_MO.USG_RVN_INVCD_LCL
URIR	USG REVENUE INVOICE CODE REPORT	DWA_SBSCBR_STTSTC_MO.USG_RVN_INVCD_RPT
VDAP	VOLUNTARY DACTIVATED AGGREMENT THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_DACTD_AGMTTHS_PRDCNT
VDAPC	VOLUNTARY DACTIVATED ACCT THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_DACTD_ACCTTHS_PRD_CNT
VDCPC	VOLUNTARY DACTIVATED CUSTOMERTHIS PRD COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_DACTD_CUSTTHS_PRD_CNT
VDMTC	VOLUNTARY DACTIVATEDACCS METHOD THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_DACTDACCS_MTHD_TSPD_CNT
VDPT	VOLUNTARY DACTMIN PRODUCT SBSCREPORTN TSIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_DACTMIN_PRODSBRP_TSPDCNT
VDSTC	VOLUNTARY DACTIVATEDPROD SBSCREPORTN THIS PRODUCT COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_DACTDPROD_SBRP_TSPD_CNT
VSATC	VOLUNTARY SUSPEND AGGREMENT THISPRD COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_SUSPND_AGMT_THSPRD_CNT
VSCTC	VOLUNTARY SUSPEND CUSTOMER THISPRD COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_SUSPND_CUST_THSPRD_CNT
VSMSTC	VOLUNTARY SUSPEND MN SBSCREPORTN TSPRD COUNT	DWA_SBSCBR_STTSTC_MO.VLTRY_SUSPND_MN_SBP_TSPRD_CNT

Derived Measures

Table 9–49 shows the possible derived measure of this data cube.

Table 9–49 Subscriber Churn Statistic Cube Derived Measures

Physical Name	Definition	Description
BRA_LY	LAG(CHRN.BRA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Rfnd Amt Last Year
BRAL_LY	LAG(CHRN.BRAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Rfnd Amt Local Last Year
BRAR_LY	LAG(CHRN.BRAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Rfnd Amt Report Last Year
BTA_LY	LAG(CHRN.BTA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Tax Amt Last Year
BTAL_LY	LAG(CHRN.BTAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Tax Amt Local Last Year
BTAR_LY	LAG(CHRN.BTAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Tax Amt Report Last Year
BWOA_LY	LAG(CHRN.BWOA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Write Off Amt Last Year
BWOAL_LY	LAG(CHRN.BWOAL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Write Off Amt Local Last Year
BWOAR_LY	LAG(CHRN.BWOAR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Billed Write Off Amt Report Last Year
CRI_LY	LAG(CHRN.CRI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Count Row Id Last Year
DRI_LY	LAG(CHRN.DRI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Disc Revenue Invoice Code Last Year
DRIL_LY	LAG(CHRN.DRIL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Disc Revenue Invoice Code Local Last Year
DRIR_LY	LAG(CHRN.DRIR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Disc Revenue Invoice Code Report Last Year
ER_LY	LAG(CHRN.ER, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Expired Revenue Last Year
ERL_LY	LAG(CHRN.ERL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Expired Revenue Local Last Year
ERR_LY	LAG(CHRN.ERR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Expired Revenue Report Last Year
ESRI_LY	LAG(CHRN.ESRI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Eqpmnt Sl Revenue Invoice Code Last Year
ESRIL_LY	LAG(CHRN.ESRIL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Eqpmnt Sl Revenue Invoice Code Local Last Year
ESRIR_LY	LAG(CHRN.ESRIR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Eqpmnt Sl Revenue Invoice Code Report Last Year
IDATC_LY	LAG(CHRN.IDATC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Involuntary Deactivated Access Method This Product Count Last Year
IDCTC_LY	LAG(CHRN.IDCTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Involuntary Deactivated Acct Thisprd Count Last Year
IDPTC_LY	LAG(CHRN.IDPTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Involuntary Deactivated Podsbp This Product Count Last Year
ISATC_LY	LAG(CHRN.ISATC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Involuntary Deactivated Agreement Thisprd Count Last Year

Table 9–49 (Cont.) Subscriber Churn Statistic Cube Derived Measures

Physical Name	Definition	Description
ISCTC_LY	LAG(CHRN.ISCTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Involuntary Deactivated Customer Thisprd Count Last Year
ISMSTC_LY	LAG(CHRN.ISMSTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Involuntary Suspend Mn Sbp This Product Count Last Year
NAAC_LY	LAG(CHRN.NAAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Activation Aggrement Count Last Year
NAAMC_LY	LAG(CHRN.NAAMC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Activation Access Method Count Last Year
NAC_LY	LAG(CHRN.NAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Acct Count Last Year
NAMPSC_LY	LAG(CHRN.NAMPSC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Activation Mn Product Sbscreportn Count Last Year
NAPSC_LY	LAG(CHRN.NAPSC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Activation Product Sbscreportn Count Last Year
NCC_LY	LAG(CHRN.NCC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	New Customer Count Last Year
ORI_LY	LAG(CHRN.ORI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Other Revenue Invoice Code Last Year
ORIL_LY	LAG(CHRN.ORIL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Other Revenue Invoice Code Local Last Year
ORIR_LY	LAG(CHRN.ORIR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Other Revenue Invoice Code Report Last Year
OTFI_LY	LAG(CHRN.OTFI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Invoice Code Last Year
OTFIL_LY	LAG(CHRN.OTFIL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Invoice Code Local Last Year
OTFIR_LY	LAG(CHRN.OTFIR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	One Time Fee Invoice Code Report Last Year
PSSC_LY	LAG(CHRN.PSSC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Prod Sbscreportn Suspend Count Last Year
RATPC_LY	LAG(CHRN.RATPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Reactivationd Aggrement This Prd Count Last Year
RCTPC_LY	LAG(CHRN.RCTPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Reactivationd Customer This Prd Count Last Year
RMSTPC_LY	LAG(CHRN.RMSTPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Reactivationd Mn Sbscreportn This Prd Count Last Year
RRI_LY	LAG(CHRN.RRI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Revenue Row Id Last Year
TAAC_LY	LAG(CHRN.TAAC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Aggrement Count Last Year
TAACWS_LY	LAG(CHRN.TAACWS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Aggrement Count With Sla Last Year
TAAMC_LY	LAG(CHRN.TAAMC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Access Method Count Last Year

Table 9–49 (Cont.) Subscriber Churn Statistic Cube Derived Measures

Physical Name	Definition	Description
TACC_LY	LAG(CHRN.TACC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Customer Count Last Year
TACCWS_LY	LAG(CHRN.TACCWS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Customer Count With Sla Last Year
TAMPSC_LY	LAG(CHRN.TAMPSC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Minimum Product Sbscreportn Count Last Year
TAPA_LY	LAG(CHRN.TAPA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Acct Pending Activation Last Year
TAPSC_LY	LAG(CHRN.TAPSC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Activation Prod Sbscreportn Count Last Year
TASCUS_LY	LAG(CHRN.TASCUS, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Avmn Sbscreportn Count Under Sla Last Year
TCACTP_LY	LAG(CHRN.TCACTP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cancel Account Count This Prd Last Year
TCCCTP_LY	LAG(CHRN.TCCCTP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cancel Aggrement Count This Prd Last Year
TCPA_LY	LAG(CHRN.TCPA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Customer Pending Activation Last Year
TCPSCP_LY	LAG(CHRN.TCPSCP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cancel Customer Count This Prd Last Year
TMPPA_LY	LAG(CHRN.TMPPA, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Total Cancel Product Sbscreportn Countts Prd Last Year
URI_LY	LAG(CHRN.URI, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usg Revenue Invoice Code Last Year
URIL_LY	LAG(CHRN.URIL, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usg Revenue Invoice Code Local Last Year
URIR_LY	LAG(CHRN.URIR, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Usg Revenue Invoice Code Report Last Year
VDAP_LY	LAG(CHRN.VDAP, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Deactivated Aggrement This Product Count Last Year
VDAPC_LY	LAG(CHRN.VDAPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Deactivated Acct This Product Count Last Year
VDCPC_LY	LAG(CHRN.VDCPC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Deactivated Customerthis Prd Count Last Year
VDMTC_LY	LAG(CHRN.VDMTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Deactivatedaccs Method This Product Count Last Year
VDPT_LY	LAG(CHRN.VDPT, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Dactmin Product Sbscreportn Tsis Product Count Last Year
VDSTC_LY	LAG(CHRN.VDSTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Deactivatedprod Sbscreportn This Product Count Last Year

Table 9–49 (Cont.) Subscriber Churn Statistic Cube Derived Measures

Physical Name	Definition	Description
VSATC_LY	LAG(CHRN.VSATC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Suspend Aggrement Thisprd Count Last Year
VSCTC_LY	LAG(CHRN.VSCTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Suspend Customer Thisprd Count Last Year
VSMSTC_LY	LAG(CHRN.VSMSTC, 1) OVER HIERARCHY ("TIME".HTBSNS BY ANCESTOR AT LEVEL "TIME".HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Voluntary Suspend Mn Sbscreportn Tsprd Count Last Year

Customer Acquisition Forecast Cube: ACM_FCST

This cube provides information on customer acquisition forecasting.

Physical Name: ACM_FCST

Dimensions and Load Level

The fact data of Customer Acquisition Forecast Cube is loaded by the forecast program from the ACM cube at these dimension levels (leaf level).

Table 9–50 Customer Acquisition Forecast Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Product	Product
Product Offering	Product Offering
Geography	County

Aggregation Order/Operator

The Customer Acquisition Forecast Cube will be aggregated by the following order and operators on dimensions

Table 9–51 Customer Acquisition Forecast Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Product	Sum	3
Product Offering	Sum	4
Geography	Sum	5

Base Measures

Table 9–52 shows the base measure of this data cube.

Table 9–52 Customer Acquisition Forecast Cube Base Measures

Physical Name	Logical Name
AAC_FCST	Actual Acquisition Count Forecast

Customer Acquisition Forecast Statistic Cube: ACM_FCST_STTSTC

This cube provides information on customer acquisition forecasting statistics.

Physical Name: ACM_FCST_STTSTC

Dimensions and Load Level

The fact data for the Customer Acquisition Forecast Statistic Cube is loaded by the forecast program at these dimension levels (leaf level). The Customer Acquisition Forecast Statistic Cube stores the details about the forecast calculation, such as which forecast method the Geneva engine is using and what are the values of the parameters for this forecast method, and so on. There is no time dimension in this cube because all the forecasts in Oracle Communications Data Model use a time series forecast.

Table 9–53 Customer Acquisition Forecast Statistic Cube Dimensions and Load Level

Dimension Name	Load level	Description
Customer Type	Customer Type	
Product	Product	
Product Offering	Product Offering	
Geography	County	

Aggregation Order/Operator

The Customer Acquisition Forecast Cube will be aggregated by the following order and operators on dimensions.

Table 9–54 Customer Acquisition Forecast Statistic Aggregation Operator and Order

Dimension Name	Operator	Order
Customer Type	Sum	2
Product	Sum	3
Product Offering	Sum	4
Geography	Sum	5

Base Measures

Table 9–55 shows the base measure of this data cube.

Table 9–55 Customer Acquisition Forecast Statistic Cube Base Measures

Physical Name	Logical Name
AAC_STTSTC	Actual Acquisition Count Forecast Statistic

Cell Statistic Forecast Cube: CSM_FCST

Provides information on cell statistics forecasting.

Physical Name: CSM_FCST

Dimensions and Load Level

The fact data of Cell Statistic Forecast Cube is loaded by the forecast program from the CSM cube at these dimension levels(leaf level).

Table 9–56 Cell Statistic Forecast Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Peak Offpeak Time	Peak Offpeak Time
Network Element	Network Element
Time Slot	Time Slot
Geography	County

Aggregation Order/Operator

The Cell Statistic Forecast Cube will be aggregated by the following order and operators on dimensions.

Table 9–57 Cell Statistic Forecast Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Peak Offpeak Time	Sum	2
Network Element	Sum	3
Time Slot	Sum	4
Geography	Sum	5

Base Measures

Table 9–58 shows the base measure of this data cube.

Table 9–58 Cell Statistic Forecast Cube Base Measures

Physical Name	Logical Name
TT_FCST	Total Traffic Forecast

Revenue Forecast Cube: RVN_FCST

Provides information on revenue forecasting.

Physical Name: RVN_FCST

Dimensions and Load level

The fact data of Revenue Forecast Cube is loaded by the forecast program from the RVN cube at these dimension levels (leaf level).

Table 9–59 Revenue Forecast Cube Dimensions and Load Level

Dimension Name	Load level
Time	Business Month
Customer Type	Customer Type
Product	Product
Organization	Organization Business Unit
Geography	County

Aggregation Order/Operator

The Revenue Cube will be aggregated by the following order and operators on dimensions.

Table 9–60 Revenue Forecast Cube Aggregation Operator and Order

Dimension Name	Operator	Order
Time	Sum	1
Customer Type	Sum	2
Product	Sum	3
Organization	Sum	4
Geography	Sum	5

Base Measures

Table 9–61 shows the base measure of this data cube.

Table 9–61 Revenue Forecast Cube Base Measures

Physical Name	Logical Name
BRVN_FCST	Bill Revenue Forecast
CUSTCNT_FCST	For Internal Use Only Customer Count Forecast
SLRVN_FCST	Sales Revenue Forecast

Derived Measures

The possible derived measure of this data cube are:

Table 9–62 Revenue Forecast Cube Derived Measures

Physical Name	Expression	Description
EOP_CUSTCNT_FCST	OLAP_DML_EXPRESSION('RVN_FCST_CUSTCNT_FCST(time if time_levelrel eq "BSNS_MO" then time else statlast(limit(time to bottomdescendants using time_parentrel time(time time))))', NUMBER)	EOP Customer Count Forecast

Sales Cube: SLS

This Cube contains the Sales Subject Area Measures. This cube is dimensioned by the default Organization, Product and Time dimensions - each of which contain multiple hierarchies.

Physical Name: SLS

Dimensionality

The Sales Cube is loaded from the relational schema at these dimension levels.

Sales Cube Dimensions

OLAP Cube	Dimension Number	OLAP Dimension	OLAP Dimension Type
Sales Cube: SLS	1	Organization: ORGANIZATION	STANDARD
Sales Cube: SLS	2	Product: PRODUCT	STANDARD
Sales Cube: SLS	3	Time: TIME	TIME

Aggregation, Load Information

Sales Cube Aggregation, Load Information

Order	OLAP Dimension	Operator	Aggregate from Level
1	Organization: ORGANIZATION	SUM	Default
2	Product: PRODUCT	SUM	Default
3	Time: TIME	SUM	Default

Base Measures with Description, Logical Name and Mapping Expression

Sales Cube Base Measures

Physical Name	Logical Name	Mapping Expression
GROSS_SU	Gross Sales Units	DWD_RTL_SL_RETRN_ITEM_DAY.SL_UNIT_CNT
GROSS_SV	Gross Sales Value	DWD_RTL_SL_RETRN_ITEM_DAY.SL_AMT
RET_U	Return Units	DWD_RTL_SL_RETRN_ITEM_DAY.RETRN_UNIT_CNT
RET_V	Return Value	DWD_RTL_SL_RETRN_ITEM_DAY.RETRN_AMT

Derived Measure with Description, Logical Name and Expression / Calculation

Sales Cube Derived Measures

Physical Name	Expression or Calculation	Description
EOP_SR	INV.EOP_SR	Inventory EOP SOH Value (Retail)
EOP_SR_FCST	INV_FCST.EOP_SR_FCST	Inventory EOP SOH Value (Retail) Forecast
EOP_SU	INV.EOP_SU	Inventory EOP SOH Units
EOP_SU_FCST	INV_FCST.EOP_SU_FCST	Inventory EOP SOH Units Forecast
EOP_SV	INV.EOP_SV	Inventory EOP SOH Value (Cost)
EOP_SV_FCST	INV_FCST.EOP_SV_FCST	Inventory EOP SOH Value (Cost) Forecast
HOW_IS_SU_G_POP	OLAP_DML_EXPRESSION('if SLS_SU_LP_PCT_CHG gt .15 then "GOOD" else if SLS_SU_LP_PCT_CHG lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is Sales Units Growth PoP
HOW_IS_SU_G_YOY	OLAP_DML_EXPRESSION('if SLS_SU_LY_PCT_CHG gt .15 then "GOOD" else if SLS_SU_LY_PCT_CHG lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is Sales Units Growth YoY
HOW_IS_SU_YTD_G_YOY	OLAP_DML_EXPRESSION('if SLS_SU_YTD_LY_PCT_CHG gt .15 then "GOOD" else if SLS_SU_YTD_LY_PCT_CHG lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is Sales Units YTD Growth YoY
HOW_IS_SV_G_POP	OLAP_DML_EXPRESSION('if SLS_SV_LP_PCT_CHG gt .15 then "GOOD" else if SLS_SV_LP_PCT_CHG lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is Sales Value Growth PoP
HOW_IS_SV_G_YOY	OLAP_DML_EXPRESSION('if SLS_SV_LY_PCT_CHG gt .15 then "GOOD" else if SLS_SV_LY_PCT_CHG lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is Sales Value Growth YoY
HOW_IS_SV_YTD_G_YOY	OLAP_DML_EXPRESSION('if SLS_SV_YTD_LY_PCT_CHG gt .15 then "GOOD" else if SLS_SV_YTD_LY_PCT_CHG lt .05 then "ALERT" else "MODERATE"', VARCHAR2 (60))	How is Sales Value YTD Growth YoY
OOS_UNITS	SLS.EOP_SU_FCST - SLS.SU_FCST	Out of Stock Units

Physical Name	Expression or Calculation	Description
OOS_UNITS_S	OLAP_DML_EXPRESSION('if time_day_levelrel eq "DAY" and SLS_OOS_UNITS lt 0 then "Out-of-Stock" else na', VARCHAR2 (60))	Out of Stock Units Status
SU	SLS.GROSS_SU - SLS.RET_U	Sales Units
SU_FCST	SLS_FCST.SU_FCST	Sales Unit Forecast
SU_LAG5	LAG(SLS.SU, 5) OVER (HIERARCHY TIME_DAY.HTBSNS)	Sales Units - Lag 5 days
SU_LAG5WKDAY	OLAP_DML_EXPRESSION('LAG(sls_su, 5, time_day, convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN")', NUMBER)	Sales Units - Lag 5 Weekdays
SU_LAG5WKDAY_NASKIP	OLAP_DML_EXPRESSION('LAG(sls_su, 5, time_day, convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN" and sls_su ne na)', NUMBER)	Sales Units - Lag 5 Weekdays, na skip
SU_LP	LAG(SLS.SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS)	Sales Units Last Period
SU_LP_CHG	LAG_VARIANCE(SLS.SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS)	Sales Units Change Last Period
SU_LP_PCT_CHG	LAG_VARIANCE_PERCENT(SLS.SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS)	Sales Units % Chg Last Period
SU_LY	LAG(SLS.SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Units Last Year
SU_LY_CHG	LAG_VARIANCE(SLS.SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Units Change Last Year
SU_LY_PCT_CHG	LAG_VARIANCE_PERCENT(SLS.SU, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Units % Chg Last Year
SU_MVAVG5	AVG(SLS.SU) OVER (HIERARCHY TIME_DAY.HTBSNS BETWEEN 5 PRECEDING AND 0 FOLLOWING WITHIN LEVEL)	Sales Units - Moving Average 5 days
SU_MVAVG5WKDAY	OLAP_DML_EXPRESSION('MOVINGAVERAGE(sls_su, -5, 0, 1, time_day convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN")', NUMBER)	Sales Units - Moving Average 5 Weekdays
SU_MVAVG5WKDAY_NASKIP	OLAP_DML_EXPRESSION('MOVINGAVERAGE(sls_su, -5, 0, 1, time_day convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN" and sls_su ne na)', NUMBER)	Sales Units - Moving Average 5 Weekdays, na skip
SU_MVMAX5	MAX(SLS.SU) OVER (HIERARCHY TIME_DAY.HTBSNS BETWEEN 5 PRECEDING AND 0 FOLLOWING WITHIN LEVEL)	Sales Units - Moving Max 5 days
SU_MVMAX5WKDAY	OLAP_DML_EXPRESSION('MOVINGMAX(sls_su, -5, 0, 1, time_day convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN")', NUMBER)	Sales Units - Moving Max 5 Weekdays
SU_MVMAX5WKDAY_NASKIP	OLAP_DML_EXPRESSION('MOVINGMAX(sls_su, -5, 0, 1, time_day convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN" and sls_su ne na)', NUMBER)	Sales Units - Moving Max 5 Weekdays, na skip
SU_MVTOT5	SUM(SLS.SU) OVER (HIERARCHY TIME_DAY.HTBSNS BETWEEN 5 PRECEDING AND 0 FOLLOWING WITHIN LEVEL)	Sales Units - Moving Total 5 days
SU_MVTOT5WKDAY	OLAP_DML_EXPRESSION('MOVINGTOTAL(sls_su, -5, 0, 1, time_day convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN")', NUMBER)	Sales Units - Moving Total 5 Weekdays
SU_MVTOT5WKDAY_NASKIP	OLAP_DML_EXPRESSION('MOVINGTOTAL(sls_su, -5, 0, 1, time_day convert(time_day_end_date text "DY") ne "SAT" and convert(time_day_end_date text "DY") ne "SUN" and sls_su ne na)', NUMBER)	Sales Units - Moving Total 5 Weekdays, na skip

Physical Name	Expression or Calculation	Description
SU_ORG_RNK_U	OLAP_DML_EXPRESSION('RANK(SLS_SU UNIQUE TIEBREAKERS(SORT(ORG D sls_su_ly_pct_chg)) basedon ORG)', NUMBER)	Sales Units Org Rank Unique
SU_ORG_RNK_ UNAF	OLAP_DML_EXPRESSION('RANK(SLS_SU UNIQUE NAFIRST TIEBREAKERS(SORT(ORG D sls_su_ly_pct_chg)) basedon ORG)', NUMBER)	Sales Units Org Rank Unique NAFIRST
SU_ORG_RNK_ UNAL	OLAP_DML_EXPRESSION('RANK(SLS_SU UNIQUE NALAST TIEBREAKERS(SORT(ORG D sls_su_ly_pct_chg)) basedon ORG)', NUMBER)	Sales Units Org Rank Unique NALAST
SU_ORG_SHR_ AREA	SHARE(SLS.SU OF ORG.HCHAIN LEVEL ORG.AREA)	Sales Units Share of Org Area Ancestor
SU_ORG_SHR_PRNT	SHARE(SLS.SU OF ORG.HCHAIN PARENT)	Sales Units Share of Org Parent
SU_ORG_SHR_TOT	SHARE(SLS.SU OF ORG.HCHAIN TOP)	Sales Units Share of Total Org
SU_ORG_TIME_ DAY_RNK_UNAL	OLAP_DML_EXPRESSION('RANK(SLS_SU UNIQUE NALAST TIEBREAKERS(SORT(ORG D sls_su_ly_pct_chg) SORT(time_day D sls_su_ly_pct_chg)) basedon ORG TIME_DAY)', NUMBER)	Sales Units Org Time Rank Unique
SU_PROD_SHR_ DEPT	SHARE(SLS.SU OF SKUITEM.HSKUITEM LEVEL SKUITEM.DEPT)	Sales Units Share of Prod Dept
SU_PROD_SHR_ PRNT	SHARE(SLS.SU OF SKUITEM.HSKUITEM PARENT)	Sales Units Share of Prod Parent
SU_PROD_SHR_TOT	SHARE(SLS.SU OF SKUITEM.HSKUITEM TOP)	Sales Units Share of Total Prod
SU_RNK_NU	OLAP_DML_EXPRESSION('RANK(SLS_SU MIN)', NUMBER)	Sales Units Rank Non-Unique
SU_RNK_U	OLAP_DML_EXPRESSION('RANK(SLS_SU UNIQUE TIEBREAKERS(SORT(ORG D sls_su_ly_pct_chg) SORT(ORG D org_long_description)))', NUMBER)	Sales Units Rank Unique
SU_STTSTC	SLS_FCST_STTSTC.SU_STTSTC	Sales Unit Forecast Statistic
SU_YTD	SUM(SLS.SU) OVER HIERARCHY (TIME_DAY.HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL TIME_DAY.BSNS_YR)	Sales Units YTD
SU_YTD_LY	LAG(SLS.SU_YTD, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Units YTD Last Year
SU_YTD_LY_CHG	LAG_VARIANCE(SLS.SU_YTD, 1) OVER HIERARCHY (TIME_ DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Units YTD Chg Last Year
SU_YTD_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(SLS.SU_YTD, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Units YTD % Chg Last Year
SV	SLS.GROSS_SV - SLS.RET_V	Sales Value
SV_FCST	SLS_FCST.SV_FCST	Sales Value Forecast
SV_LP	LAG(SLS.SV, 1) OVER HIERARCHY (TIME_DAY.HTBSNS)	Sales Value Last Period
SV_LP_CHG	LAG_VARIANCE(SLS.SV, 1) OVER HIERARCHY (TIME_ DAY.HTBSNS)	Sales Value Change Last Period
SV_LP_PCT_CHG	LAG_VARIANCE_PERCENT(SLS.SV, 1) OVER HIERARCHY (TIME_DAY.HTBSNS)	Sales Value % Chg Last Period
SV_LY	LAG(SLS.SV, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Value Last Year
SV_LY_CHG	LAG_VARIANCE(SLS.SV, 1) OVER HIERARCHY (TIME_ DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Value Change Last Year

Physical Name	Expression or Calculation	Description
SV_LY_PCT_CHG	LAG_VARIANCE_PERCENT(SLS.SV, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Value % Chg Last Year
SV_ORG_RNK_U	OLAP_DML_EXPRESSION('RANK(SLS_SV UNIQUE TIEBREAKERS(SORT(ORG D sls_sv_ly_pct_chg)) basedon ORG)', NUMBER)	Sales Value Org Rank Unique
SV_ORG_RNK_ UNAF	OLAP_DML_EXPRESSION('RANK(SLS_SV UNIQUE NAFIRST TIEBREAKERS(SORT(ORG D sls_sv_ly_pct_chg)) basedon ORG)', NUMBER)	Sales Value Org Rank Unique NAFIRST
SV_ORG_RNK_ UNAL	OLAP_DML_EXPRESSION('RANK(SLS_SV UNIQUE NALAST TIEBREAKERS(SORT(ORG D sls_sv_ly_pct_chg)) basedon ORG)', NUMBER)	Sales Value Org Rank Unique NALAST
SV_ORG_SHR_ AREA	SHARE(SLS.SV OF ORG.HCHAIN LEVEL ORG.AREA)	Sales Value Share of Org Area Ancestor
SV_ORG_SHR_PRNT	SHARE(SLS.SV OF ORG.HCHAIN PARENT)	Sales Value Share of Org Parent
SV_ORG_SHR_TOT	SHARE(SLS.SV OF ORG.HCHAIN TOP)	Sales Value Share of Total Org
SV_ORG_TIME_ DAY_RNK_UNAL	OLAP_DML_EXPRESSION('RANK(SLS_SV UNIQUE NALAST TIEBREAKERS(SORT(ORG D sls_sv_ly_pct_chg) SORT(time_day D sls_sv_ly_pct_chg)) basedon ORG time_day)', NUMBER)	Sales Value Org Time Rank Unique
SV_PROD_SHR_ DEPT	SHARE(SLS.SV OF SKUITEM.HSKUITEM LEVEL SKUITEM.DEPT)	Sales Value Share of Prod Dept
SV_PROD_SHR_ PRNT	SHARE(SLS.SV OF SKUITEM.HSKUITEM PARENT)	Sales Value Share of Prod Parent
SV_PROD_SHR_TOT	SHARE(SLS.SV OF SKUITEM.HSKUITEM TOP)	Sales Value Share of Total Prod
SV_RNK_NU	OLAP_DML_EXPRESSION('RANK(SLS_SV MIN)', NUMBER)	Sales Value Rank Non-Unique
SV_RNK_U	OLAP_DML_EXPRESSION('RANK(SLS_SV UNIQUE TIEBREAKERS(SORT(org D sls_sv_ly_pct_chg) SORT(org D org_ long_description)))', NUMBER)	Sales Value Rank Unique
SV_STTSTC	SLS_FCST_STTSTC.SV_STTSTC	Sales Value Forecast Statistic
SV_YTD	SUM(SLS.SV) OVER HIERARCHY (TIME_DAY.HTBSNS BETWEEN UNBOUNDED PRECEDING AND CURRENT MEMBER WITHIN ANCESTOR AT LEVEL TIME_DAY.BSNS_YR)	Sales Value YTD
SV_YTD_LY	LAG(SLS.SV_YTD, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Value YTD Last Year
SV_YTD_LY_CHG	LAG_VARIANCE(SLS.SV_YTD, 1) OVER HIERARCHY (TIME_ DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Value YTD Chg Last Year
SV_YTD_LY_PCT_ CHG	LAG_VARIANCE_PERCENT(SLS.SV_YTD, 1) OVER HIERARCHY (TIME_DAY.HTBSNS BY ANCESTOR AT LEVEL TIME_ DAY.HTBSNS.BSNS_YR POSITION FROM BEGINNING)	Sales Value YTD % Chg Last Year

Sales Forecast Cube: SLS_FCST

This Cube contains the Sales Forecast related measures.

Physical Name: SLS_FCST

Dimensionality

The Sales Forecast Cube is NOT loaded from the relational schema. Data for this cube is generated by the OLAP Forecast process.

Sales Forecast Cube Dimensions

OLAP Cube	Dimension Number	OLAP Dimension	OLAP Dimension Type
Sales Cube Forecast: SLS_ FCST	1	Organization: ORGANIZATION	STANDARD
Sales Cube Forecast: SLS_ FCST	2	Product: PRODUCT	STANDARD
Sales Cube Forecast: SLS_ FCST	3	Time: TIME	TIME

Aggregation, Load Information

Sales Forecast Cube Aggregation, Load Information

Order	OLAP Dimension	Operator	Aggregate from Level
1	Organization: ORGANIZATION	SUM	Default
2	Product: PRODUCT	SUM	Default
3	Time: TIME	SUM	Default

Base Measures with Description, Logical Name and Mapping Expression

Sales Forecast Cube Base Measures

Physical Name	Logical Name	Mapping Expression
SU_FCST	Sales Unit Forecast	NULL
SV_FCST	Sales Value Forecast	NULL

Derived Measure with Description, Logical Name and Expression / Calculation

Sales Forecast Cube Derived Measures

Physical Name	Expression or Calculation	Description
OOS_VALUE	INV_FCST.EOP_SV_FCST - SLS_FCST.SV_FCST	Out of Stock Value
OOS_VALUE_S	OLAP_DML_EXPRESSION('if time_day_levelrel eq "DAY" and SLS_FCST_ OOS_VALUE lt 0 then "Out-of-Stock" else na', VARCHAR2 (60))	Out of Stock Value Status

Sales Forecast Statistic Cube: SLS_FCST_STTSTC

This cube contains Statistics Measures relating to the Sales Forecast process.

Physical Name: SLS_FCST_STTSTC

Dimensionality

The Sales Forecast Statistics Cube is NOT loaded from the relational schema. Data for this cube is generated by the OLAP Forecast process.

Sales Forecast Statistics Cube Dimensions

Dimension Number	OLAP Dimension	OLAP Dimension Type
1	Organization: ORGANIZATION	STANDARD
2	Product: PRODUCT	STANDARD
3	Time: TIME	TIME

Aggregation, Load Information

Sales Forecast Statistics Cube Aggregation, Load Information

Order	OLAP Dimension	Operator	Aggregate from Level
1	Organization: ORGANIZATION	Non-Additive (Do not summarize)	Default
2	Product: PRODUCT	Non-Additive (Do not summarize)	Default
3	Time: TIME	Non-Additive (Do not summarize)	Default

Base Measures with Description, Logical Name and Mapping Expression

Sales Forecast Statistics Cube Base Measures

Physical Name	Logical Name	Mapping Expression
SU_STTSTC	Sales Unit Forecast Statistic	NULL
SV_STTSTC	Sales Value Forecast Statistic	NULL

10

Oracle Communications Data Model Data Mining Models

This chapter provides reference information about the data mining models provided with Oracle Communications Data Model.

This chapter includes the following sections:

About Data Mining in Oracle Communications Data Model

Oracle Communications Data Model data mining includes data mining intra-ETL package, data mining core package, source views, target tables, support tables, and setting tables. The source views are defined on source derived tables. These source views are used to train the models. The target tables contain the mining model rules, mining prediction results. Data mining core package uses source views as training data, builds, tests, and applies mining models. Mining target tables are populated with mining model rules and prediction results. The data in the target tables can be presented in reports.

> **Note:** Modified or new mining models are not supported by Oracle as part of the standard Oracle Communications Data Model support. However, it is recommended that you adapt the supplied mining models to your needs or create new mining models, as required.

As shown in Table 10–1, the Oracle Communications Data Model mining models use the specified algorithms for the specific problem.

Table 10–1 Oracle Communications Data Model Algorithm Types Used by Model

Model	Algorithms Used by Data Mining Model
Model 1: Prepaid Churn Prediction	Decision Tree(DT), Support Vector Machine(SVM)
Model 2: Postpaid Churn Prediction	Decision Tree(DT), Support Vector Machine(SVM)
Model 3: Customer Profiling	K-Means (KM)
Model 4: Targeted Promotion	Support Vector Machine (SVM)
Model 5: Customer Life Time Value	Generalized Linear Models(GLM)
Model 6: Customer Life Time Survival Value	Generalized Linear Models (GLM)
Model 7: Customer Sentiment	Support Vector Machine (SVM)

For more information on mining algorithms, see *Oracle Data Mining Concepts* and *Oracle Data Mining Application Developer's Guide*.

Understanding the Mining Model Architecture

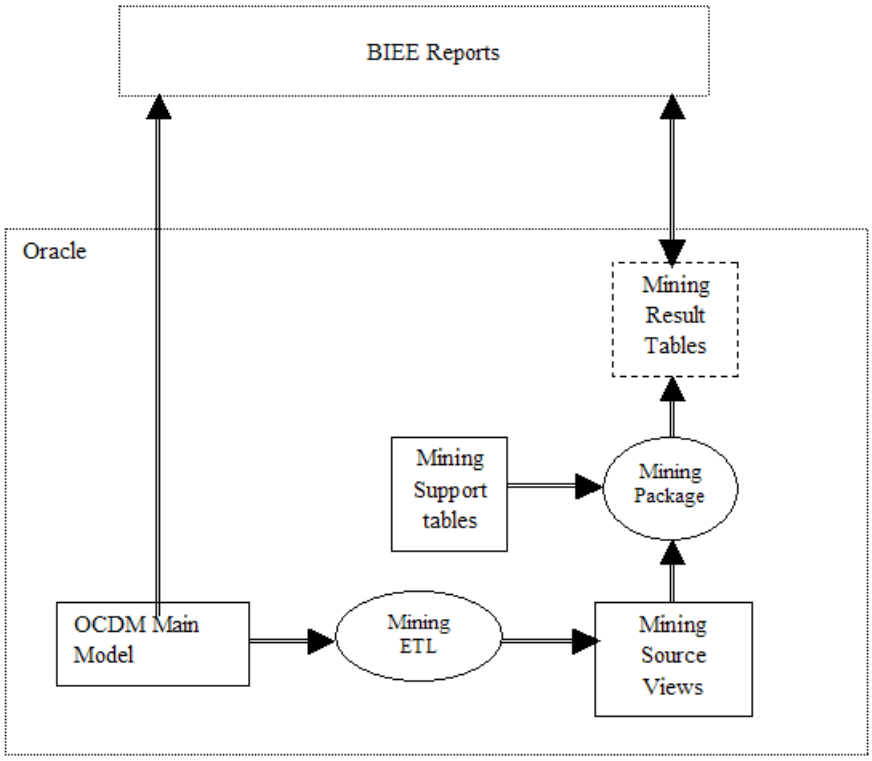
Figure 10–1 shows the architecture of data mining in Oracle Communications Data Model. Oracle Communications Data Model schema, `ocdm_sys`, includes the following:

- Mining Model Source Views: Views defined source derived tables, DWD_CUST_DNA and DWD_VAS_SBRP_QCK_SUMM. These views are used to train mining models. Source data is selected as of training day parameter provided in DWC_ETL_PARAMETER table for "BUILD-MINING-MODELS" process.
- Mining Model Apply Views: Views defined source derived tables, DWD_CUST_DNA and DWD_VAS_SBRP_QCK_SUMM. These views are used to apply trained mining models. Apply data is selected as of apply day parameter provided in DWC_ETL_PARAMETER table for "BUILD-MINING-MODELS" process.
- Mining Model Support Tables: Mining algorithm settings for different algorithms used in Oracle Communications Data Model are stored in the support tables. These support tables start with "DM". Building a mining model creates few tables and views which start with "DM$".

  Note: Do not delete tables and views that start with "DM" and "DM$". Deleting "DM$" tables and views would also delete the trained mining model.

- Mining Model Target Tables: Mining model target tables used for storing mining model rules and prediction results. Mining model rules are generated from the trained model and predictions results are produced when a trained model is applied on apply data.
- Mining Model Core Package: This is the core package for Oracle Communications Data Model data mining. Each mining model has separate procedure in this package. Each procedure builds, tests, and applied mining model. It uses source views as training data, and applies trained model on apply views.

Figure 10–1 Oracle Communications Data Model Mining Packages Tables and Views



Refreshing the Oracle Communications Data Model Mining Model

Over time, the customer information and the customer behavior may change. Therefore, you may want to refresh the trained mining models based on the latest customer and usage data:

1. Make sure the source derived tables `DWD_CUST_DNA` and `DWD_VAS_SBRP_QCK_SUMM` are loaded with latest data.
2. Update "from_date_etl" and "end_date_etl" columns for "BUILD-MINING-MODELS" process in `DWC_ETL_PARAMETER` table.
   - *"from_date_etl"* - Training data is selected as of this date
   - *"to_date_etl"* - Apply data is selected as of this date
3. Refresh mining source views and apply views to get training data and apply data for the given training day and apply day:

   ```
   exec pkg_mining_etl.refresh_mining_views(l_trnng_day_key,l_apply_day_key);
   ```

4. Build, test, and apply mining models. Make sure an intra-etl process is running, if not, start a process:

   ```
   exec pkg_ocdm_mining.REFRESH_MODEL(l_apply_day_key,NULL);
   ```

5. For each mining procedure, an activity is created and the status of all mining activities are saved into DWC_INTRA_ETL_ACTIVITY table.

Oracle Communications Data Model Mining Result Tables

Table 10–2 Target Columns in DWD_CUST_DNA Data Mining Result Table

Name	Data Type	Description
CLSTR_SGMNT_CD	VARCHAR2(8)	The k-Means algorithm divides the set of all customers into segments. This value identifies the segment that the customer belongs to.
CMPTD_LTV_VALUE	NUMBER	
LT_SRVVL_CD	VARCHAR2(120)	The band code of Customer Survival period (Life Expectancy), predicted by Life_Exp (GLMR) Model.
LTV_BAND_CD	VARCHAR2(120)	The band code of customer lifetime value, predicted by LTV Generalized Linear Models Regression. For more information, see *Oracle Data Mining Concepts*.
MANUAL_SNTMNT_CTGRY	VARCHAR2(120)	The manual score applied by end user. The end user generates this model. For example, an employee from the operator might generate this model. Usually this is the call center agent. For example, when the message is recorded, there could be a manual tag associated with the message indicating that the customer is happy or upset.
PRDCT_CHURN_DT_IND	CHAR(1)	Boolean value whether customer will churn in next three months according to DT model.
PRDCT_CHURN_DT_ND_NBR	VARCHAR2(30)	The ID of the node in the decision tree where the customer is assigned.
PRDCT_CHURN_DT_PROB	NUMBER	The probability value of how likely customer will churn in next 3 months. This is the probability that the DT prediction is correct.
PRDCT_CHURN_SVM_IND	CHAR(1)	Boolean value whether customer will churn in next three months according to SVM model.
PRDCT_CHURN_SVM_PROB	NUMBER	The probability value of how likely customer will churn in next 3 months. This is the probability that the SVM prediction is correct.
PRDCT_LT_SRVVL_VAL	NUMBER(22,7)	The value of Customer Survival period (Life Expectancy), predicted by Life_Exp (GLMR) Mode.
PRDCT_LTV_VALUE	NUMBER	The real value of Customer Lifetime value, predicted by LTV (GLMR) Mode.
SNTMNT_CTGRY_CD	VARCHAR2(120)	The customer sentiment category detected by Customer sentiment model (SVM + Text). This is an SVM model on transformed TEXTs (transformed into a words matrix).
SNTMNT_PROB	NUMBER	The probability of which customer is in possible model (Happy). This is the probability that customer is happy with their service. For example, a value of 60% means there is 60% chance that customer is happy with the service and a 40% chance that customer is not happy.

Table 10–3 DWD_CUST_PROD_AFFLTN Data Mining Result Table

Name	Data Type	Description
AFFLTN_PROB	NUMBER(20,18)	The likelihood, predicted by the SVM model, that the customer will purchase the product.
BUY_IND	CHAR(1)	Boolean value to indicate whether customer may purchase the product. This indicates that a value 1 is BUY and a value of 0 is "NOT to BUY".
CUST_CD	VARCHAR2(120)	Customer natural key to identify the customer.
MO_KEY	NUMBER(30)	Month key for which the target promotion model was trained.
PROD_CD	VARCHAR2(120)	The product code which was predicted against. This is target product for promotion.

Table 10–4 DWD_CHRN_SVM_FACTOR Data Mining Result Table

Name	Data Type	Description
ACCT_TYP_CD	VARCHAR2(120)	Account Type Code. For example: Prepaid, Postpaid
ATTRIBUTE_NAME	VARCHAR2(4000)	Name of the factor.
ATTRIBUTE_SUBNAME	VARCHAR2(4000)	Subname of the factor if there is any. For example, if the ATTRIBUTE_NAME has the value, "Payment_Method", then the ATTRIBUTE_SUBNAME could be and of the following: ■ Debit_Card ■ Cash Each ATTRIBUTE_SUBNAME has a different weight, coefficient, in the model.
ATTRIBUTE_VALUE	VARCHAR2(4000)	Value of the factor, if there is any. For example, for payment method, value of "cash" and "direct debit" might have different influence and ranking.
COEFFICIENT	NUMBER	Importance of the factor. The factors are ranked according to this value.
MODEL_NAME	VARCHAR2(120)	Churn model name

Table 10–5 DWD_PROMO_SVM_FACTOR Data Mining Result Table

Name	Data Type	Description
ATTRIBUTE_NAME	VARCHAR2(4000)	Name of the factor.
ATTRIBUTE_SUBNAME	VARCHAR2(4000)	Subname of the factor if there is any. For example, if the ATTRIBUTE_NAME has the value, "Payment_Method", then the ATTRIBUTE_SUBNAME could be and of the following: ■ Debit_Card ■ Cash Each ATTRIBUTE_SUBNAME has a different weight, coefficient, in the model.
ATTRIBUTE_VALUE	VARCHAR2(4000)	Value of the factor, if there is any. For example, for payment method, value of "cash" and "direct debit" might have different influence and ranking.

Table 10–5 (Cont.) DWD_PROMO_SVM_FACTOR Data Mining Result Table

Name	Data Type	Description
COEFFICIENT	NUMBER	Importance of the factor. The factors are ranked according to this value.
MO_KEY	NUMBER(30)	Month key for which the target promotion model was trained
PROD_CD	VARCHAR2(50)	The product code which was predicted against. This is target product for promotion.

Table 10–6 DWR_CUST_DT_NODE Data Mining Result Table

Name	Data Type	Description
ACCT_TYP_CD	VARCHAR2(120)	Account Type Code. For example: Prepaid, Postpaid
CONFIDENCE	NUMBER	Ratios of prediction_count to record_count
IS_LEAF	VARCHAR2(10)	Indicates whether the node is a leaf indicator. The prediction of lead node is the final prediction
MODEL_NAME	VARCHAR2(120)	Churn model name
NODE_ID	VARCHAR2(50)	Decision tree node number
PREDICTION	NUMBER	Prediction for the current node. If number of customers predicted to churn is higher than number of customers to retain, then this would be 1, otherwise it would be 0
PREDICTION_COUNT	NUMBER	Number of customers predicted to churn under the current node
RECORD_COUNT	NUMBER	Number of customer under the current node
SUPPORT	NUMBER	Ration of record_count to total number of customers

Table 10–7 DWD_CHRN_SVM_ROC Data Mining Result Table

Name	Data Type	Description
ACCT_TYP_CD	VARCHAR2(120)	Account Type Code. For example, Prepaid, Postpaid
BASE_BENCHMARK_PERCENT	NUMBER	Base Benchmark Percentage
COST_THRESHOLD	NUMBER	Cost Threshold
GAIN_CUMULATIVE	NUMBER	Cumulative Gain
LIFT_CUMULATIVE	NUMBER	Cumulative Lift
LIFT_QUANTILE	NUMBER	Quantile Lift
MAX_SVM_TO_CHRN_PROB	NUMBER	Maximum Churn Probability
MIN_SVM_TO_CHRN_PROB	NUMBER	Minimum Churn Probability
MODEL_NAME	VARCHAR2(120)	Churn Model Name
NON_TARGETS_CUMULATIVE	NUMBER	Cumulative Non-targets
PERCENTAGE_RECORDS_CUMULATIVE	NUMBER	Cumulative Percentage Records
PRED_QUANTILE_TARGET_COUNT	NUMBER	Predicted Target Count of the Quantile
QUANTILE_NUMBER	NUMBER	Quantile number
QUANTILE_TARGET_COUNT	NUMBER	Target Count of the current Quantile
QUANTILE_TOTAL_COUNT	NUMBER	Total Count in the current Quantile
TARGET_DENSITY	NUMBER	Target Density

Table 10–7 (Cont.) DWD_CHRN_SVM_ROC Data Mining Result Table

Name	Data Type	Description
TARGET_DENSITY_CUMULATIVE	NUMBER	Cumulative Target Density
TARGETS_CUMULATIVE	NUMBER	Cumulative Targets
TEST_DATE	DATE	Date when mining model trained and applied

Table 10–8 DWD_PROMO_SVM_ROC Data Mining Result Table

Name	Data Type	Description
ACCT_TYP_CD	VARCHAR2(120)	Account Type Code. For example, Prepaid, Postpaid
BASE_BENCHMARK_PERCENT	NUMBER	Base Benchmark Percentage
COST_THRESHOLD	NUMBER	Cost Threshold
GAIN_CUMULATIVE	NUMBER	Cumulative Gain
LIFT_CUMULATIVE	NUMBER	Cumulative Lift
LIFT_QUANTILE	NUMBER	Quantile Lift
MAX_SVM_TO_BUY_PROB	NUMBER	Maximum Buy Probability
MIN_SVM_TO_BUY_PROB	NUMBER	Minimum Buy Probability
MO_KEY	NUMBER(30)	Month Key
MODEL_NAME	VARCHAR2(120)	Churn Model Name
NON_TARGETS_CUMULATIVE	NUMBER	Cumulative Non-targets
PERCENTAGE_RECORDS_CUMULATIVE	NUMBER	Cumulative Percentage Records
PRED_QUANTILE_TARGET_COUNT	NUMBER	Predicted Target Count of the Quantile
PROD_CD	VARCHAR2(50)	Product code
QUANTILE_NUMBER	NUMBER	Quantile number
QUANTILE_TARGET_COUNT	NUMBER	Target Count of the current Quantile
QUANTILE_TOTAL_COUNT	NUMBER	Total Count in the current Quantile
TARGET_DENSITY	NUMBER	Target Density
TARGET_DENSITY_CUMULATIVE	NUMBER	Cumulative Target Density
TARGETS_CUMULATIVE	NUMBER	Cumulative Targets
TEST_DATE	DATE	Date when mining model trained and applied

Model 1: Prepaid Churn Prediction

The prepaid churn prediction model identifies the characteristics of a prepaid customer likely to churn. When you apply the model you get a prediction of how likely a particular customer is to churn. This is based on customer information such as customer demographic information, service quality, recharge history, calling usage, interaction, and other factors. Using the patterns learned, the model can also perform the calculation over current customer base (called 'Apply') to predict which customers are mostly like to churn in next four months. With this knowledge, operators can initiate certain retention programs to reduce the customer churn rate. However, the churn prediction produces a likely to churn value. Further processing may be required to determine if it is desirable to retain a customer that is likely to churn. For example, you may only want to initiate retention programs for high value customers.

Prepaid Churner Definition

There are several levels to define churn, namely Customer, Account, and subscription. For some operators with only limited business line, customer and account churn at same time, while subscription is at a lower level. Customer can stop using some products (termination of subscription) while continue to use the other products. In later case, operator still has the customer and may promote other products in the future. However, if customer completely stopped using any products from the operator, it is very difficult for operator to bring customer back.

In Oracle Communications Data Model, the churn is defined at Customer Level, which is, a customer is recognized as a churner only when he stop using any product from the operator.

If customers churn at a given month, the model may receive the data only three months after the actual Churn. So the time window should be adjusted.

Prepaid Churn Source

Table 10–9 shows the attributes identified from the Foundation Data Warehouse as input source variables for the prepaid churn model.

Table 10–9 DWV_PRPD_CUST_CHRN_SRC

Attribute	Description
ACCPT_NWSLTR_IND	Indicates whether customer accepts News Letter
ADDR_LOC_CD	Customer Address Location Code
AGE_BND_CD	Customer Age Band Code
AGE_ON_NET_BND_CD	Customer Age on Net Band Code
AGE_ON_NET_NBR	Customer Age on Net expressed in number of months
ARPU_BND_CD	Customer ARPU Band Code
AVG_DRTN_BTWN_RCHRG	Average duration between two recharges - in days
BARNG_RSN_CD	Customer Barring Reason Code
BRDBND_IND	Indicates whether Customer has Broadband connection
BSNS_LEGAL_STAT_CD	Legal Status Code of Enterprise Customers, for example, Public, Private
CAR_DRVR_LICNS_IND	Indicates whether customer has driver's license
CAR_TYP_CD	Car Type Code
CHRN_IND	Indicates whether a customer is a Churner or Non-churner
CITY	City
CMPLNT_CNT_LAST_3MO	Number of complaints made by customer in last 3 months
CMPLNT_CNT_LAST_MO	Number of complaints made by customer in this month
CMPLNT_CNT_LFTM	Number of complaints made by customer in his/her life span
CNCT_ADDR_EFF_DT_NBR	Customer Contact Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
CNTCT_ALLWD_IND	Indicates whether customer allows to contact
CNTRY	Country
COLL_ZIP_CD	College ZIP Code

Table 10–9 (Cont.) DWV_PRPD_CUST_CHRN_SRC

Attribute	Description
CRDT_CTGRY_KEY	Customer Credit Category
CUST_BRANCH_CD	Customer Branch Code
CUST_CD	Customer Identifier
CUST_RVN_BND_CD	Customer Revenue Band Code
CUST_SCR_CD	Customer SCR Code
CUST_TYP_CD	Customer Type Code
DAYS_BFR_FIRST_RCHRG	Days between first payment and first recharge
DAYS_BFR_FIRST_USE	Days between payment and first use
DRPD_CALLS_CNT_LAST_3MO	Number of dropped calls in last 3 months
DRPD_CALLS_CNT_LAST_MO	Number of dropped calls this month
DRPD_CALLS_CNT_LFTM	Number of dropped calls in customer life span
DWLNG_OWNER	Dwelling Owner
DWLNG_STAT	Dwelling Status
DWLNG_SZ	Dwelling Size
DWLNG_TENR	Dwelling Tenure
DWLNG_TYP	Dwelling Type
DWNLD_DATA_LAST_3MO	Data downloaded in KBs in last 3 months
DWNLD_DATA_LAST_MO	Data downloaded in KBs in last 1 month
DWNLD_DATA_LFTM	Data downloaded in KBs in lifetime
ECNMCLY_ACTV_IND	Indicates whether a customer is economically Active
EDU_CD	Education Qualification Code
EFF_FROM_DT_NBR	Customer Effective From Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
END_OF_JB_AGRMNT_NBR	End of Job Agreement expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
ESTMTD_ACQSTN_COST	Customer Acquisition Estimated Cost
ETHNCTY	Customer Ethnicity
ETHNIC_BCKGRND	Customer Ethnic Background
FORM_OF_EMPMNT	Form of Employment
GNDR_CD	Individual Customer Gender Code
HH_SZ	Household Size
HNGUP_CALLS_CNT_LAST_3MO	Number of hangup calls in last 3 months
HNGUP_CALLS_CNT_LAST_MO	Number of hangup calls this month
HNGUP_CALLS_CNT_LFTM	Number of hangup calls in customer life span
HOMTEL_IND	Indicates whether Customer has Home Telephone
IDD_IND	Indicates whether Customer subscribed to International Direct Dialing
JB_AGRMNT_TYP	Job Agreement Type

Table 10–9 (Cont.) DWV_PRPD_CUST_CHRN_SRC

Attribute	Description
JB_CD	Customer Job Code
JB_POSN	Customer Job Position
LANG_CD	Language Code
LAST_INCOMING_USG_DT_NBR	When was last incoming call occurred
LAST_OUTGOING_USG_DT_NBR	When was last outgoing call occurred
LAST_RCHRG_AMT	Last recharge amount
LEGAL_TTL_TO_HSNG	Legal Title to Housing
LIFE_SPN	Customer Life Span
LIKE_SCP_IN_FCBK_IND	Indicates whether customer likes Service Provide page in Facebook
LVNG_AT_CURR_ADDR_SINCE_NBR	Since When Customer Living at Current Address expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
MAIL_ALWD_IND	Indicates whether Customer allows Service Provider to send mail
MAX_RCHRG_AMT	Maximum recharge amount
MIN_RCHRG_AMT	Minimum recharge amount
MMS_CNT_LAST_3MO	MMSs sent in last 3 months
MMS_CNT_LAST_MO	MMSs sent in last 1 month
MMS_CNT_LFTM	MMSs sent over customer's lifetime
MRTL_STAT_CD	Individual Customer Marital Status Code
MULT_PRTY_ROLE_IND	Indicates whether customer has multiple party roles. For example, both an employee and customer of Service Provider
NAME_OF_WKPLC	Name of Workplace
NAME_PRFX	Name Prefix
NBR_CHLDRN_AT_COLL	Total Number of Children at College
NBR_CHLDRN_AT_SCHL	Total Number of Children at School
NBR_CHLDRN_AT_UNIV	Total Number of Children at University
NBR_OF_CHLDRN	Total Number of Children
NBR_OF_DPNDNT	Total Number of Dependents
NEW_ACCT_IND	Indicates whether Customer is New
NO_MTHS_CMPNY	Number of months an Individual Customer is in his/her current Company
NO_MTHS_POSN	Number of months an Individual Customer is in his/her current Position
NTNLTY_CD	Customer Nationality Code
OFFNET_AIRTIME_LAST_3MO	Total offnet airtime in minutes in last 3 months
OFFNET_AIRTIME_LAST_MO	Total offnet airtime in minutes in last 1 month
OFFNET_AIRTIME_LFTM	Total offnet airtime in minutes in lifetime
OFFNET_CALLS_LAST_3MO	Number of offnet calls in last 3 months
OFFNET_CALLS_LAST_MO	Number of offnet calls in last 1 month
OFFNET_CALLS_LFTM	Number of offnet calls in lifetime

Table 10–9 (Cont.) DWV_PRPD_CUST_CHRN_SRC

Attribute	Description
ONNET_AIRTIME_LAST_3MO	Total onnet airtime in minutes in last 3 months
ONNET_AIRTIME_LAST_MO	Total onnet airtime in minutes in last 1 month
ONNET_AIRTIME_LFTM	Total onnet airtime in minutes in lifetime
ONNET_CALLS_LAST_3MO	Number of onnet calls in last 3 months
ONNET_CALLS_LAST_MO	Number of onnet calls in last 1 month
ONNET_CALLS_LFTM	Number of onnet calls in lifetime
OTH_DRVR_LICNS_IND	Indicates whether customer has other vehicle License
PAY_TV_IND	Indicates whether Customer has Pay TV connection
PLC_OF_BRTH	Place of Birth
PORT_IN_CNT	Number of times the customer ported in
PORT_IN_FROM	Service Provide from who the customer ported out from
PORT_OUT_CNT	Number of times the customer ported out
POSTCD_CD	Postcard Code
PREF_CNTCT_MDM	Preferred Contact Method
PREF_ENTMNT_IND	Indicates whether customer given any Entitlement preference
PREF_GVN_IND	Indicates whether customer given any preference
PREF_MSC_IND	Indicates whether customer given any Music preference
PREF_SPRT_IND	Indicates whether customer given any sport preference
PREF_TRVL_IND	Indicates whether customer given any Travel preference
PRMRY_STAT_CD	Customer Primary Status Code
PRMRY_STAT_RSN_CD	Customer Primary Status Reason Code
PRTY_AGE	Customer Age expressed as number of years
PRTY_TYP_CD	Party Type Code, for example, Individual, Large Enterprise, Medium Enterprise, and so on.
RLSD_CALLS_CNT_LAST_3MO	Number of released calls in last 3 months
RLSD_CALLS_CNT_LAST_MO	Number of released calls this month
RLSD_CALLS_CNT_LFTM	Number of released calls in customer life span
RMRK_CNT_LAST_3MO	Numbers of remarks made against customer in last 3 months
RMRK_CNT_LAST_MO	Numbers of remarks made against customer in this month
RMRK_CNT_LFTM	Numbers of remarks made against customer in his/her life span
SCHL_ZIP_CD	School ZIP Code
SCL_NTWK_USR_IND	Indicates whether customer uses any Social Network site
SL_CHNL_KEY	Sales Channel
SL_CHNL_RPRSTV_KEY	Sales Channel Representative
SMS_CNT_LAST_3MO	SMSs sent in last 3 months
SMS_CNT_LAST_MO	SMSs sent in last 1 month
SMS_CNT_LFTM	SMSs sent over customer's lifetime

Table 10–9 (Cont.) DWV_PRPD_CUST_CHRN_SRC

Attribute	Description
SPRT_IND	Indicates whether customer plays Sports
SPRT_TYP_CD	Sport Type Code
SRC_OF_INCM	Source of Income
STATE	State
STRT_OF_EMPMNT_NBR	Customer Start of Employment expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
TOT_AGE_CHLDRN	Total Age of Children
TOT_CALL_CNT_LAST_3MO	Total number of calls to Call center made by customer in last 3 months
TOT_CALL_CNT_LAST_MO	Total number of calls to Call center made by customer in this month
TOT_CALL_CNT_LFTM	Total number of calls to Call center made by customer in his/her life span
TOT_CNTRBTN_LAST_MO	Sum of total payments and total recharges made in the last one month
TOT_CNTRBTN_LFTM	Sum of total payments and total recharges made in customers life time
TOT_DAYS_ACTVTY	Total days of activity
TOT_DAYS_ON_USE	Total days on use
TOT_DAYS_OUTGOING_ACTVTY	Total days of outgoing activity
TOT_DRTN_OF_USG	Total durations of usage in customer life time
TOT_EXP_AMT_EQVLT_VAL	Total amount expired in customers life time
TOT_HLD_DRTN_LAST_3MO	Total hold duration in last 3 months in seconds
TOT_HLD_DRTN_LAST_MO	Total hold duration this month in seconds
TOT_HLD_DRTN_LFTM	Total hold duration in customer life span in seconds
TOT_QUE_DRTN_LAST_3MO	Total queue duration in the last 3 months in seconds
TOT_QUE_DRTN_LAST_MO	Total queue duration this month in seconds
TOT_QUE_DRTN_LFTM	Total queue duration in customer life span in seconds
TOT_RCHRG_AMT_LAST_3MO	Total recharge amount this month
TOT_RCHRG_AMT_LAST_MO	Total recharge amount in last 3 months
TOT_RCHRG_AMT_LFTM	Total recharge amount in customers life time
TOT_RCHRG_CNT_LAST_3MO	Number of recharges made in last 3 months
TOT_RCHRG_CNT_LAST_MO	Number of recharges made this month
TOT_RCHRG_CNT_LFTM	Number of recharges made in customer life time
TOT_TALK_DRTN_LAST_3MO	Total talk duration in the last 3 months in seconds
TOT_TALK_DRTN_LAST_MO	Total talk duration this month in seconds
TOT_TALK_DRTN_LFTM	Total talk duration in customer life span in seconds
TOT_UTILZD_EQVLT_VAL	Total utilized monetary value in customers life time
UNIV_ZIP_CD	University ZIP Code
UPLD_DATA_LAST_3MO	Data uploaded in KBs in last 3 months
UPLD_DATA_LAST_MO	Data uploaded in KBs in last 1 month
UPLD_DATA_LFTM	Data uploaded in KBs in lifetime

Table 10–9 (Cont.) DWV_PRPD_CUST_CHRN_SRC

Attribute	Description
VOI_INTERNAT_AIRTIME_LAST_3MO	International voice air time including roaming in minutes in last three months
VOI_INTERNAT_AIRTIME_LAST_MO	International voice air time in minutes including roaming in last one month
VOI_INTERNAT_AIRTIME_LFTM	International voice air time in minutes including roaming over customer's life time
VOI_NAT_AIRTIME_LAST_3MO	National voice air time in minutes in last three months
VOI_NAT_AIRTIME_LAST_MO	National voice air time in minutes in last one month
VOI_NAT_AIRTIME_LFTM	National voice air time in minutes over customer's life time
WRLS_IND	Indicates whether Customer has Wireless Internet connection

Prepaid Churn Output Target Attribute: CHRN_IND

Data in DWV_PRPD_CUST_CHRN_SRC view is used to train prepaid churn models using two algorithms, *Support Vector Machines* and *Decision Tree*. Data in DWV_PRPD_CUST_CHRN_TST view is used to compare the performance of old and new mining models and the best model is chosen as final trained model. Data in DWV_PRPD_CUST_CHRN_APPLY view is scored with the final trained model. Scoring results are saved into DWD_CUST_DNA table with the following columns:

- DWD_CUST_DNA.PRDCT_CHURN_SVM_IND
- DWD_CUST_DNA.PRDCT_CHURN_SVM_PROB
- DWD_CUST_DNA.PRDCT_CHURN_DT_IND
- DWD_CUST_DNA.PRDCT_CHURN_DT_ND_NBR

Prepaid Churn Algorithm

The following two algorithms are used separately to solve prepaid churn classification mining problem:

- Support Vector Machines (SVM)
- Decision Tree

Prepaid Churn Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following are the prepaid churn setting tables:

- DM_STNG_CHURN_SVM - For Support Vector Machines algorithm
- DM_STNG_CHURN_DT - For Decision Tree algorithm

Model 2: Postpaid Churn Prediction

The postpaid churn prediction model identifies the characteristics of a postpaid customer likely to churn. When you apply the model you get a prediction of how likely a particular customer is to churn. This is based on customer information such as customer demographic information, service quality, tariff plan, calling usage, interaction, and other factors. Using the patterns learned, the model can also perform the calculation over current customer base (called 'Apply') to predict which customers are mostly like to churn in next four months. With this knowledge, operators can

initiate certain retention programs to reduce the customer churn rate. However, the churn prediction produces a likely to churn value. Further processing may be required to determine if it is desirable to retain a customer that is likely to churn. For example, you may only want to initiate retention programs for high value customers.

Postpaid Churner Definition

There are several levels to define churn, namely Customer, Account, and subscription. For some operators with only limited business line, customer and account churn at same time, while subscription is at a lower level. Customer can stop using some products (termination of subscription) while continue to use the other products. In later case, operator still has the customer and may promote other products in the future. However, if customer completely stopped using any products from the operator, it is very difficult for operator to bring customer back.

In Oracle Communications Data Model, the churn was defined at Customer Level, which is, a customer is recognized as a churner only when he stop using any product from the operator.

If customers churn at a given month, the model may receive the data only three months after the actual Churn. In this case the time window should be adjusted.

Postpaid Churner Source

Table 10–10 shows the attributes identified from the Foundation Data Warehouse as input source variables for the postpaid churn model.

Table 10–10 DWV_PSTPD_CUST_CHRN_SRC

Attribute	Description
ACCPT_NWSLTR_IND	Indicates whether customer accepts News Letter
ACCT_LFT_VAL_LAST_3MO	Account Left Value in last three months
ACCT_LFT_VAL_LAST_MO	Account Left Value in last month
ADDR_LOC_CD	Customer Address Location Code
AGE_BND_CD	Customer Age Band Code
AGE_ON_NET_BND_CD	Customer Age on Net Band Code
AGE_ON_NET_NBR	Customer Age on Net expressed in number of months
AGRMNT_CNT_LAST_3MO	Number of Agreements in last 3 months
AGRMNT_CNT_LAST_MO	Number of Agreements in last 1 month
AGRMNT_LFT_DAYS_LAST_3MO	Agreement Left Days in last 3 months
AGRMNT_LFT_DAYS_LAST_MO	Agreement Left Days in last 1 month
ARPU_BND_CD	Customer ARPU Band Code
BARNG_RSN_CD	Customer Barring Reason Code
BLLG_ADDR_EFF_DT_NBR	Building Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
BNKRPT_STAT	Bankrupt Status
BNKRPT_STRT_DT_NBR	Bankrupt Start Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.

Table 10–10 (Cont.) DWV_PSTPD_CUST_CHRN_SRC

Attribute	Description
BRDBND_IND	Indicates whether Customer has Broadband connection
BSNS_LEGAL_STAT_CD	Legal Status Code of Enterprise Customers. For example, Public, Private
CAR_DRVR_LICNS_IND	Indicates whether customer has Car Driving License
CAR_TYP_CD	Car Type Code
CHRN_IND	Indicates whether a customer is a Churner or Non-churner
CITY	City
CMPLNT_CNT_LAST_3MO	Number of complaints made by customer in last 3 months
CMPLNT_CNT_LAST_MO	Number of complaints made by customer in this month
CMPLNT_CNT_LFTM	Number of complaints made by customer in his/her life span
CMPNY_EMP_SZ_BND_CD	Enterprise Customer Employee Size Band Code
CMPNY_RVN_BND_CD	Enterprise Customer Revenue Band Code
CMPNY_TYP_CD	Company Type Code
CNCT_ADDR_EFF_DT_NBR	Customer Contact Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
CNTCT_ALLWD_IND	Indicates whether customer allows to contact
CNTRY	Country
COLL_ZIP_CD	College ZIP Code
CRDT_CTGRY_KEY	Customer Credit Category
CUST_BRANCH_CD	Customer Branch Code
CUST_CD	Customer Identifier
CUST_PYMT_RESPBL_IND	Indicates whether customer is responsible for making payments
CUST_RVN_BND_CD	Customer Revenue Band Code
CUST_SCR_CD	Customer SCR Code
CUST_TYP_CD	Customer Type Code
DEBT_AGNG_BND_CD_LAST_3MO	Debt Ageing Band Code in last 3 months
DEBT_AGNG_BND_CD_LAST_MO	Debt Ageing Band Code in last 1 month
DEBT_VAL_LAST_3MO	Debt Value in last 3 months
DEBT_VAL_LAST_MO	Debt Value in last 1 month
DRPD_CALLS_CNT_LAST_3MO	Number of dropped calls in last 3 months
DRPD_CALLS_CNT_LAST_MO	Number of dropped calls this month
DRPD_CALLS_CNT_LFTM	Number of dropped calls in customer life span
DWLNG_OWNER	Dwelling Owner
DWLNG_STAT	Dwelling Status
DWLNG_SZ	Dwelling Size
DWLNG_TENR	Dwelling Tenure
DWLNG_TYP	Dwelling Type
DWNLD_DATA_LAST_3MO	Data downloaded in KBs in last 3 months

Table 10–10 (Cont.) DWV_PSTPD_CUST_CHRN_SRC

Attribute	Description
DWNLD_DATA_LAST_MO	Data downloaded in KBs in last 1 month
DWNLD_DATA_LFTM	Data downloaded in KBs in lifetime
ECNMCLY_ACTV_IND	Indicates whether a customer is economically Active
EDU_CD	Education Qualification Code
EFF_FROM_DT_NBR	Customer Effective From Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
END_OF_JB_AGRMNT_NBR	End of Job Agreement expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
ESTMTD_ACQSTN_COST	Customer Acquisition Estimated Cost
ETHNCTY	Customer Ethnicity
ETHNIC_BCKGRND	Customer Ethnic Background
EXTRNL_ORG_TYP_CD	External Organization Type Code
FORM_OF_EMPMNT	Form of Employment
FUTRE_AGRMNT_CNT_LAST_3MO	Number of Future Agreements in last 3 months
FUTRE_AGRMNT_CNT_LAST_MO	Number of Future Agreements in last 1 month
FUTRE_AGRMNT_DAYS_LAST_3MO	Future Agreement Days in last 3 months
FUTRE_AGRMNT_DAYS_LAST_MO	Future Agreement Days in last 1 month
GNDR_CD	Individual Customer Gender Code
HH_SZ	Household Size
HNGUP_CALLS_CNT_LAST_3MO	Number of hangup calls in last 3 months
HNGUP_CALLS_CNT_LAST_MO	Number of hangup calls this month
HNGUP_CALLS_CNT_LFTM	Number of hangup calls in customer life span
HOMTEL_IND	Indicates whether Customer has Home Telephone
IDD_IND	Indicates whether Customer subscribed to International Direct Dialing
JB_AGRMNT_TYP	Job Agreement Type
JB_CD	Customer Job Code
JB_POSN	Customer Job Position
LANG_CD	Language Code
LEGAL_TTL_TO_HSNG	Legal Title to Housing
LIFE_SPN	Customer Life Span
LIKE_SCP_IN_FCBK_IND	Indicates whether customer likes Service Provide page in Facebook
LVNG_AT_CURR_ADDR_SINCE_NBR	Since When Customer Living at Current Address expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
LYLTY_PROG_BAL_LAST_3MO	Loyalty Program Balance in last three months
LYLTY_PROG_BAL_LAST_MO	Loyalty Program Balance in last month
MAIL_ALWD_IND	Indicates whether Customer allows Service Provider to send mail

Table 10–10 (Cont.) DWV_PSTPD_CUST_CHRN_SRC

Attribute	Description
MMS_CNT_LAST_3MO	MMSs sent in last 3 months
MMS_CNT_LAST_MO	MMSs sent in last 1 month
MMS_CNT_LFTM	MMSs sent over customer's lifetime
MO_RVN_LAST_3MO	Monthly Revenue as of 3 months ago
MO_RVN_LAST_MO	Monthly Revenue as of 1 month ago
MRTL_STAT_CD	Individual Customer Marital Status Code
MULT_PRTY_ROLE_IND	Indicates whether customer has multiple party roles. For example, both an employee and customer of Service Provider
NAME_OF_WKPLC	Name of Workplace
NAME_PRFX	Name Prefix
NBR_CHLDRN_AT_COLL	Total Number of Children at College
NBR_CHLDRN_AT_SCHL	Total Number of Children at School
NBR_CHLDRN_AT_UNIV	Total Number of Children at University
NBR_EMP_SNC_CUST	Numbers of Employees Since Customer
NBR_OF_CHLDRN	Total Number of Children
NBR_OF_DPNDNT	Total Number of Dependents
NEW_ACCT_IND	Indicates whether Customer is New
NO_MTHS_CMPNY	Number of months an Individual Customer is in his/her current Company
NO_MTHS_POSN	Number of months an Individual Customer is in his/her current Position
NTNLTY_CD	Customer Nationality Code
OFFNET_AIRTIME_LAST_3MO	Total offnet airtime in minutes in last 3 months
OFFNET_AIRTIME_LAST_MO	Total offnet airtime in minutes in last 1 month
OFFNET_AIRTIME_LFTM	Total offnet airtime in minutes in lifetime
OFFNET_CALLS_LAST_3MO	Number of offnet calls in last 3 months
OFFNET_CALLS_LAST_MO	Number of offnet calls in last 1 month
OFFNET_CALLS_LFTM	Number of offnet calls in lifetime
ONNET_AIRTIME_LAST_3MO	Total onnet airtime in minutes in last 3 months
ONNET_AIRTIME_LAST_MO	Total onnet airtime in minutes in last 1 month
ONNET_AIRTIME_LFTM	Total onnet airtime in minutes in lifetime
ONNET_CALLS_LAST_3MO	Number of onnet calls in last 3 months
ONNET_CALLS_LAST_MO	Number of onnet calls in last 1 month
ONNET_CALLS_LFTM	Number of onnet calls in lifetime
OTH_DRVR_LICNS_IND	Indicates whether customer has other vehicle License
PAY_TV_IND	Indicates whether Customer has Pay TV connection
PLC_OF_BRTH	Place of Birth
PORT_IN_CNT	Number of times the customer ported in
PORT_IN_FROM	Service Provide from who the customer ported out from

Table 10–10 (Cont.) DWV_PSTPD_CUST_CHRN_SRC

Attribute	Description
PORT_OUT_CNT	Number of times the customer ported out
POSTCD_CD	Postcard Code
PREF_CNTCT_MDM	Preferred Contact Method
PREF_ENTMNT_IND	Indicates whether customer given any Entitlement preference
PREF_GVN_IND	Indicates whether customer given any preference
PREF_MSC_IND	Indicates whether customer given any Music preference
PREF_PYMT_MTHD_TYP_CD	Preferred Payment Method Type Code
PREF_SPRT_IND	Indicates whether customer given any sport preference
PREF_TRVL_IND	Indicates whether customer given any Travel preference
PRMRY_STAT_CD	Customer Primary Status Code
PRMRY_STAT_RSN_CD	Customer Primary Status Reason Code
PRTY_AGE	Customer Age expressed as number of years
PRTY_TYP_CD	Party Type Code. For example, Individual, Large Enterprise, Medium Enterprise, and so on.
PYMT_ACCT_OPEN_DT_NBR	Payment Account Open Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
RLSD_CALLS_CNT_LAST_3MO	Number of released calls in last 3 months
RLSD_CALLS_CNT_LAST_MO	Number of released calls this month
RLSD_CALLS_CNT_LFTM	Number of released calls in customer life span
RMRK_CNT_LAST_3MO	Numbers of remarks made against customer in last 3 months
RMRK_CNT_LAST_MO	Numbers of remarks made against customer in this month
RMRK_CNT_LFTM	Numbers of remarks made against customer in his/her life span
SBRP_CNT_LAST_3MO	Subscription Count in last three months
SBRP_CNT_LAST_MO	Subscription Count in last month
SCHL_ZIP_CD	School ZIP Code
SCL_NTWK_USR_IND	Indicates whether customer uses any Social Network site
SL_CHNL_KEY	Sales Channel
SL_CHNL_RPRSTV_KEY	Sales Channel Representative
SMS_CNT_LAST_3MO	SMSs sent in last 3 months
SMS_CNT_LAST_MO	SMSs sent in last 1 month
SMS_CNT_LFTM	SMSs sent over customer's lifetime
SOC_JB_CD	SOC Job Code
SPRT_IND	Indicates whether customer plays Sports
SPRT_TYP_CD	Sport Type Code
SRC_OF_INCM	Source of Income
SSPNSN_CNT_LAST_3MO	Suspension Count in last three months
SSPNSN_CNT_LAST_MO	Suspension Count in last month

Table 10–10 (Cont.) DWV_PSTPD_CUST_CHRN_SRC

Attribute	Description
STATE	State
STRT_OF_EMPMNT_NBR	Customer Start of Employment expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
TOT_AGE_CHLDRN	Total Age of Children
TOT_CALL_CNT_LAST_3MO	Total number of calls to Call center made by customer in last 3 months
TOT_CALL_CNT_LAST_MO	Total number of calls to Call center made by customer in this month
TOT_CALL_CNT_LFTM	Total number of calls to Call center made by customer in his/her life span
TOT_HLD_DRTN_LAST_3MO	Total hold duration in the last 3 months in seconds
TOT_HLD_DRTN_LAST_MO	Total hold duration this month in seconds
TOT_HLD_DRTN_LFTM	Total hold duration in customer life span in seconds
TOT_PYMT_RVN_LAST_3MO	Total Payment Revenue as of 3 months ago
TOT_PYMT_RVN_LAST_MO	Total Payment Revenue as of 1 month ago
TOT_QUE_DRTN_LAST_3MO	Total queue duration in the last 3 months in seconds
TOT_QUE_DRTN_LAST_MO	Total queue duration this month in seconds
TOT_QUE_DRTN_LFTM	Total queue duration in customer life span in seconds
TOT_TALK_DRTN_LAST_3MO	Total talk duration in the last 3 months in seconds
TOT_TALK_DRTN_LAST_MO	Total talk duration this month in seconds
TOT_TALK_DRTN_LFTM	Total talk duration in customer life span in seconds
UNIV_ZIP_CD	University ZIP Code
UPLD_DATA_LAST_3MO	Data uploaded in KBs in last 3 months
UPLD_DATA_LAST_MO	Data uploaded in KBs in last 1 month
UPLD_DATA_LFTM	Data uploaded in KBs in lifetime
VOI_INTERNAT_AIRTIME_LAST_3MO	International voice air time including roaming in minutes in last three month
VOI_INTERNAT_AIRTIME_LAST_MO	International voice air time in minutes including roaming in last one month
VOI_INTERNAT_AIRTIME_LFTM	International voice air time in minutes including roaming over customer's life time
VOI_NAT_AIRTIME_LAST_3MO	National voice air time in minutes in last three month
VOI_NAT_AIRTIME_LAST_MO	National voice air time in minutes in last one month
VOI_NAT_AIRTIME_LFTM	National voice air time in minutes over customer's life time
WRLS_IND	Indicates whether Customer has Wireless Internet connection

Postpaid Churn Output Target Attribute: CHRN_IND

Data in DWV_PSTPD_CUST_CHRN_SRC view is used to train postpaid churn models using two algorithms, *Support Vector Machines* and *Decision Tree*. Data in DWV_PSTPD_CUST_CHRN_TST view is used to compare the performance of old and new mining models and the best model is chosen as final trained model. Data in DWV_PSTPD_CUST_CHRN_APPLY view is scored with the final trained model. Scoring results are saved into DWD_CUST_DNA table with the following columns:

- DWD_CUST_DNA.PRDCT_CHURN_SVM_IND

- DWD_CUST_DNA.PRDCT_CHURN_SVM_PROB
- DWD_CUST_DNA.PRDCT_CHURN_DT_IND
- DWD_CUST_DNA.PRDCT_CHURN_DT_ND_NBR

Postpaid Churner Algorithm

The following two algorithms are used separately to solve postpaid churn classification mining problem:

- Support Vector Machines (SVM)
- Decision Tree

Postpaid Churner Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following are the setting tables for postpaid churn:

- DM_STNG_CHURN_SVM - For Support Vector Machines algorithm
- DM_STNG_CHURN_DT - For Decision Tree algorithm

Model 3: Customer Profiling

The business problem is to group customers into generally homogeneous groups (Segments) based on customer demographic value, usage pattern and list of telecom products they subscribe to (customer subscriber history).Business Analysts can look into each segment to further understand the customer group discovered by the model and name each segments.

The discovered clustering rules draw a profile of the customers along with their product subscription. Thus, the clustering rules generated for each profile group will show the most important similar characteristics in each group. For example, an operator may have a group having significantly shorter message (SMS) usage than any other groups. Alternatively, there may be a group with extremely higher profit than any other group (covering high end customers).

Customer Profiling Source

Table 10–11 shows the attributes identified from the Foundation Data Warehouse as input source variables for the customer profiling model.

Table 10–11 DWV_CUST_PROFILE_SRC

Attribute	Description
ACCPT_NWSLTR_IND	Indicates whether customer accepts News Letter
ACCT_TYP_CD	Account Type Code. For example, PSTPD - Postpaid, PRPD - Prepaid
ADDR_LOC_CD	Customer Address Location Code
AGE_BND_CD	Customer Age Band Code
AGE_ON_NET_BND_CD	Customer Age on Net Band Code
AGE_ON_NET_NBR	Customer Age on Net expressed in number of months
AGRMNT_CNT_LAST_3MO	Number of Agreements in last 3 months
AGRMNT_CNT_LAST_MO	Number of Agreements in last 1 month

Table 10–11 (Cont.) DWV_CUST_PROFILE_SRC

Attribute	Description
AGRMNT_LFT_DAYS_LAST_3MO	Agreement Left Days in last 3 months
AGRMNT_LFT_DAYS_LAST_MO	Agreement Left Days in last 1 month
ARPU_BND_CD	Customer ARPU Band Code
AVG_DRTN_BTWN_RCHRG	Average duration between two recharges - in days
BARNG_RSN_CD	Customer Barring Reason Code
BLLG_ADDR_EFF_DT_NBR	Building Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
BNKRPT_STAT	Bankrupt Status
BNKRPT_STRT_DT_NBR	Bankrupt Start Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
BRDBND_IND	Indicates whether Customer has Broadband connection
BSNS_LEGAL_STAT_CD	Legal Status Code of Enterprise Customers. For example, Public, Private
CAR_DRVR_LICNS_IND	Indicates whether customer has Car Driving License
CAR_TYP_CD	Car Type Code
CITY	City
CMPLNT_CNT_LAST_3MO	Number of complaints made by customer in last 3 months
CMPLNT_CNT_LAST_MO	Number of complaints made by customer in this month
CMPLNT_CNT_LFTM	Number of complaints made by customer in his/her life span
CMPNY_EMP_SZ_BND_CD	Enterprise Customer Employee Size Band Code
CMPNY_RVN_BND_CD	Enterprise Customer Revenue Band Code
CMPNY_TYP_CD	Company Type Code
CNCT_ADDR_EFF_DT_NBR	Customer Contact Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
CNTCT_ALLWD_IND	Indicates whether customer allows to contact
CNTRY	Country
COLL_ZIP_CD	College ZIP Code
CRDT_CTGRY_KEY	Customer Credit Category
CUST_BRANCH_CD	Customer Branch Code
CUST_CD	Customer Identifier
CUST_PYMT_RESPBL_IND	Indicates whether customer is responsible for making payments
CUST_RVN_BND_CD	Customer Revenue Band Code
CUST_SCR_CD	Customer SCR Code
CUST_TYP_CD	Customer Type Code
DAYS_BFR_FIRST_RCHRG	Days between first payment and first recharge
DAYS_BFR_FIRST_USE	Days between payment and first use
DEBT_AGNG_BND_CD_LAST_3MO	Debt Ageing Band Code in last 3 months

Table 10–11 (Cont.) DWV_CUST_PROFILE_SRC

Attribute	Description
DEBT_AGNG_BND_CD_LAST_MO	Debt Ageing Band Code in last 1 month
DEBT_VAL_LAST_3MO	Debt Value in last 3 months
DEBT_VAL_LAST_MO	Debt Value in last 1 month
DRPD_CALLS_CNT_LAST_3MO	Number of dropped calls in last 3 months
DRPD_CALLS_CNT_LAST_MO	Number of dropped calls this month
DRPD_CALLS_CNT_LFTM	Number of dropped calls in customer life span
DWLNG_OWNER	Dwelling Owner
DWLNG_STAT	Dwelling Status
DWLNG_SZ	Dwelling Size
DWLNG_TENR	Dwelling Tenure
DWLNG_TYP	Dwelling Type
DWNLD_DATA_LAST_3MO	Data downloaded in KBs in last 3 months
DWNLD_DATA_LAST_MO	Data downloaded in KBs in last 1 month
DWNLD_DATA_LFTM	Data downloaded in KBs in lifetime
ECNMCLY_ACTV_IND	Indicates whether a customer is economically Active
EDU_CD	Education Qualification Code
EFF_FROM_DT_NBR	Customer Effective From Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
END_OF_JB_AGRMNT_NBR	End of Job Agreement expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
ESTMTD_ACQSTN_COST	Customer Acquisition Estimated Cost
ETHNCTY	Customer Ethnicity
ETHNIC_BCKGRND	Customer Ethnic Background
EXTRNL_ORG_TYP_CD	External Organization Type Code
FORM_OF_EMPMNT	Form of Employment
FUTRE_AGRMNT_CNT_LAST_3MO	Number of Future Agreements in last 3 months
FUTRE_AGRMNT_CNT_LAST_MO	Number of Future Agreements in last 1 month
FUTRE_AGRMNT_DAYS_LAST_3MO	Future Agreement Days in last 3 months
FUTRE_AGRMNT_DAYS_LAST_MO	Future Agreement Days in last 1 month
GNDR_CD	Individual Customer Gender Code
HH_SZ	Household Size
HNGUP_CALLS_CNT_LAST_3MO	Number of hangup calls in last 3 months
HNGUP_CALLS_CNT_LAST_MO	Number of hangup calls this month
HNGUP_CALLS_CNT_LFTM	Number of hangup calls in customer life span
HOMTEL_IND	Indicates whether Customer has Home Telephone
IDD_IND	Indicates whether Customer subscribed to International Direct Dialing
JB_AGRMNT_TYP	Job Agreement Type

Table 10–11 (Cont.) DWV_CUST_PROFILE_SRC

Attribute	Description
JB_CD	Customer Job Code
JB_POSN	Customer Job Position
LANG_CD	Language Code
LAST_INCOMING_USG_DT_NBR	When was last incoming call occurred
LAST_OUTGOING_USG_DT_NBR	When was last outgoing call occurred
LAST_RCHRG_AMT	Last recharge amount
LEGAL_TTL_TO_HSNG	Legal Title to Housing
LIFE_SPN	Customer Life Span
LIKE_SCP_IN_FCBK_IND	Indicates whether customer likes Service Provide page in Facebook
LVNG_AT_CURR_ADDR_SINCE_NBR	Since When Customer Living at Current Address expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
MAIL_ALWD_IND	Indicates whether Customer allows Service Provider to send mail
MAX_RCHRG_AMT	Maximum recharge amount
MIN_RCHRG_AMT	Minimum recharge amount
MMS_CNT_LAST_3MO	MMSs sent in last 3 months
MMS_CNT_LAST_MO	MMSs sent in last 1 month
MMS_CNT_LFTM	MMSs sent over customer's lifetime
MO_RVN_LAST_3MO	Monthly Revenue as of 3 months ago
MO_RVN_LAST_MO	Monthly Revenue as of 1 month ago
MRTL_STAT_CD	Individual Customer Marital Status Code
MULT_PRTY_ROLE_IND	Indicates whether customer has multiple party roles. For example, both an employee and customer of Service Provider
NAME_OF_WKPLC	Name of Workplace
NAME_PRFX	Name Prefix
NBR_CHLDRN_AT_COLL	Total Number of Children at College
NBR_CHLDRN_AT_SCHL	Total Number of Children at School
NBR_CHLDRN_AT_UNIV	Total Number of Children at University
NBR_EMP_SNC_CUST	Numbers of Employees Since Customer
NBR_OF_CHLDRN	Total Number of Children
NBR_OF_DPNDNT	Total Number of Dependents
NEW_ACCT_IND	Indicates whether Customer is New
NO_MTHS_CMPNY	Number of months an Individual Customer is in his/her current Company
NO_MTHS_POSN	Number of months an Individual Customer is in his/her current Position
NTNLTY_CD	Customer Nationality Code
OFFNET_AIRTIME_LAST_3MO	Total offnet airtime in minutes in last 3 months
OFFNET_AIRTIME_LAST_MO	Total offnet airtime in minutes in last 1 month

Table 10–11 (Cont.) DWV_CUST_PROFILE_SRC

Attribute	Description
OFFNET_AIRTIME_LFTM	Total offnet airtime in minutes in lifetime
OFFNET_CALLS_LAST_3MO	Number of offnet calls in last 3 months
OFFNET_CALLS_LAST_MO	Number of offnet calls in last 1 month
OFFNET_CALLS_LFTM	Number of offnet calls in lifetime
ONNET_AIRTIME_LAST_3MO	Total onnet airtime in minutes in last 3 months
ONNET_AIRTIME_LAST_MO	Total onnet airtime in minutes in last 1 month
ONNET_AIRTIME_LFTM	Total onnet airtime in minutes in lifetime
ONNET_CALLS_LAST_3MO	Number of onnet calls in last 3 months
ONNET_CALLS_LAST_MO	Number of onnet calls in last 1 month
ONNET_CALLS_LFTM	Number of onnet calls in lifetime
OTH_DRVR_LICNS_IND	Indicates whether customer has other vehicle License
PAY_TV_IND	Indicates whether Customer has Pay TV connection
PLC_OF_BRTH	Place of Birth
PORT_IN_CNT	Number of times the customer ported in
PORT_IN_FROM	Service Provide from who the customer ported out from
PORT_OUT_CNT	Number of times the customer ported out
POSTCD_CD	Postcard Code
PREF_CNTCT_MDM	Preferred Contact Method
PREF_ENTMNT_IND	Indicates whether customer given any Entitlement preference
PREF_GVN_IND	Indicates whether customer given any preference
PREF_MSC_IND	Indicates whether customer given any Music preference
PREF_PYMT_MTHD_TYP_CD	Preferred Payment Method Type Code
PREF_SPRT_IND	Indicates whether customer given any sport preference
PREF_TRVL_IND	Indicates whether customer given any Travel preference
PRMRY_STAT_CD	Customer Primary Status Code
PRMRY_STAT_RSN_CD	Customer Primary Status Reason Code
PRTY_AGE	Customer Age expressed as number of years
PRTY_TYP_CD	Party Type Code. For example, Individual, Large Enterprise, Medium Enterprise, and so on.
PYMT_ACCT_OPEN_DT_NBR	Payment Account Open Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
RLSD_CALLS_CNT_LAST_3MO	Number of released calls in last 3 months
RLSD_CALLS_CNT_LAST_MO	Number of released calls this month
RLSD_CALLS_CNT_LFTM	Number of released calls in customer life span
RMRK_CNT_LAST_3MO	Numbers of remarks made against customer in last 3 months
RMRK_CNT_LAST_MO	Numbers of remarks made against customer in this month
RMRK_CNT_LFTM	Numbers of remarks made against customer in his/her life span

Table 10–11 (Cont.) DWV_CUST_PROFILE_SRC

Attribute	Description
SCHL_ZIP_CD	School ZIP Code
SCL_NTWK_USR_IND	Indicates whether customer uses any Social Network site
SL_CHNL_KEY	Sales Channel
SL_CHNL_RPRSTV_KEY	Sales Channel Representative
SMS_CNT_LAST_3MO	SMSs sent in last 3 months
SMS_CNT_LAST_MO	SMSs sent in last 1 month
SMS_CNT_LFTM	SMSs sent over customer's lifetime
SOC_JB_CD	SOC Job Code
SPRT_IND	Indicates whether customer plays Sports
SPRT_TYP_CD	Sport Type Code
SRC_OF_INCM	Source of Income
STATE	State
STRT_OF_EMPMNT_NBR	Customer Start of Employment expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
TOT_AGE_CHLDRN	Total Age of Children
TOT_CALL_CNT_LAST_3MO	Total number of calls to Call center made by customer in last 3 months
TOT_CALL_CNT_LAST_MO	Total number of calls to Call center made by customer in this month
TOT_CALL_CNT_LFTM	Total number of calls to Call center made by customer in his/her life span
TOT_CNTRBTN_LAST_MO	Sum of total payments and total recharges made in the last one month
TOT_CNTRBTN_LFTM	Sum of total payments and total recharges made in customers life time
TOT_DAYS_ACTVTY	Total days of activity
TOT_DAYS_ON_USE	Total days on use
TOT_DAYS_OUTGOING_ACTVTY	Total days of outgoing activity
TOT_DRTN_OF_USG	Total durations of usage in customer life time
TOT_EXP_AMT_EQVLT_VAL	Total amount expired in customers life time
TOT_HLD_DRTN_LAST_3MO	Total hold duration in the last 3 months in seconds
TOT_HLD_DRTN_LAST_MO	Total hold duration this month in seconds
TOT_HLD_DRTN_LFTM	Total hold duration in customer life span in seconds
TOT_PYMT_RVN_LAST_3MO	Total Payment Revenue as of 3 months ago
TOT_PYMT_RVN_LAST_MO	Total Payment Revenue as of 1 month ago
TOT_QUE_DRTN_LAST_3MO	Total queue duration in the last 3 months in seconds
TOT_QUE_DRTN_LAST_MO	Total queue duration this month in seconds
TOT_QUE_DRTN_LFTM	Total queue duration in customer life span in seconds
TOT_RCHRG_AMT_LAST_3MO	Total recharge amount this month
TOT_RCHRG_AMT_LAST_MO	Total recharge amount in last 3 months
TOT_RCHRG_AMT_LFTM	Total recharge amount in customers life time

Table 10–11 (Cont.) DWV_CUST_PROFILE_SRC

Attribute	Description
TOT_RCHRG_CNT_LAST_3MO	Number of recharges made in last 3 months
TOT_RCHRG_CNT_LAST_MO	Number of recharges made this month
TOT_RCHRG_CNT_LFTM	Number of recharges made in customer life time
TOT_TALK_DRTN_LAST_3MO	Total talk duration in the last 3 months in seconds
TOT_TALK_DRTN_LAST_MO	Total talk duration this month in seconds
TOT_TALK_DRTN_LFTM	Total talk duration in customer life span in seconds
TOT_UTILZD_EQVLT_VAL	Total utilized monetary value in customers life time
UNIV_ZIP_CD	University ZIP Code
UPLD_DATA_LAST_3MO	Data uploaded in KBs in last 3 months
UPLD_DATA_LAST_MO	Data uploaded in KBs in last 1 month
UPLD_DATA_LFTM	Data uploaded in KBs in lifetime
VOI_INTERNAT_AIRTIME_LAST_3MO	International voice air time including roaming in minutes in last three month
VOI_INTERNAT_AIRTIME_LAST_MO	International voice air time in minutes including roaming in last one month
VOI_INTERNAT_AIRTIME_LFTM	International voice air time in minutes including roaming over customer's life time
VOI_NAT_AIRTIME_LAST_3MO	National voice air time in minutes in last three month
VOI_NAT_AIRTIME_LAST_MO	National voice air time in minutes in last one month
VOI_NAT_AIRTIME_LFTM	National voice air time in minutes over customer's life time
WRLS_IND	Indicates whether Customer has Wireless Internet connection

Customer Profile Output

Data in `DWV_CUST_PROFILE_SRC` view is used to train unsupervised customer segmentation model. The trained is applied on the `DWV_CUST_LTV_SGMNT_APPLY` view, which has only active customers' data, to get the segment code for each active customer. Customer segment code is saved into DWD_CUST_DNA table with the following column:

- DWD_CUST_DNA. CLSTR_SGMNT_CD

Customer Profile Algorithm

The following algorithms is used to segment the active customer base:

- K-Means Clustering

Customer Profile Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following is the setting table for customer profiling:

- DM_STNG_PROFILE_KMEANS - For K-Means Clustering

Model 4: Targeted Promotion

The business problem is to identify the patterns of which products are typically purchased together or one after another over the lifetime of a customer. This helps in providing recommendations about which products should be presented to customers according to their potential acceptance score. A typical scenario is call center can call certain customers with some specific purpose to cross-sell some products. Operators need the list of customers to save promotion cost and improve efficiency.

The trained model generates recommendations about promotion target products. This is done based on what products the customer has subscribed to taking into account other factors such as customers credit history and the risk involved in offering the particular product to the customer.

Targeted Promotion Source

Table 10–12 shows the attributes identified from the Foundation Data Warehouse as input variables for targeted promotion model.

Table 10–12 DWV_PROD_MIX_SRC

Attribute	Description
ACCT_LFT_VAL_LAST_MO	Account Left Value in last 1 month
AGRMNT_ARPU_LAST_MO	Agreement ARPU as of 1 month ago
AGRMNT_CNT_LAST_MO	Number of Agreements in last 1 month
AGRMNT_LFT_DAYS_LAST_MO	Agreement Left Days in last 1 month
BARNG_RSN_CD	Customer Barring Reason Code
BSNS_LEGAL_STAT_CD	Legal Status Code of Enterprise Customers. For example Public, Private
CALL_BCK	Indicates whether Customer subscribed to Call Back
CALL_CNFRN	Indicates whether Customer subscribed to Call Conference
CALL_TRNSFR	Indicates whether Customer subscribed to Call Transfer
CB	Indicates whether Customer subscribed to CB
CF	Indicates whether Customer subscribed to Call Forward
CF_WHEN_BUSY	Indicates whether Customer subscribed to Call Forward When Busy
CF_WHEN_NO_RPLY	Indicates whether Customer subscribed to Call Forward When No Reply
CF_WHEN_NOT_RCHBLE	Indicates whether Customer subscribed to Call Forward When Not Reachable
CLI	Indicates whether Customer subscribed to Calling Line Identity
CLIR	Indicates whether Customer subscribed to Calling Line Identification Restriction
CMPLNT_CNT_LAST_MO	Number of complaints made by customer in this month
CMPLNT_CNT_LFTM	Number of complaints made by customer in his/her life span
CUST_CD	Customer Identifier
CW	Indicates whether Customer subscribed to Call Waiting
DEBT_VAL_LAST_MO	Debt Value in last 1 month
EDU_CD	Education Qualification Code

Table 10–12 (Cont.) DWV_PROD_MIX_SRC

Attribute	Description
FAX	Indicates whether Customer subscribed to Fax
FUTRE_AGRMNT_CNT_LAST_MO	Number of Future Agreements in last 1 month
GNDR_CD	Individual Customer Gender Code
GPRS	Indicates whether Customer subscribed to GPRS
HH_SZ	Household Size
INTRNTL_CALL	Indicates whether Customer subscribed to International Call
JB_AGRMNT_TYP	Job Agreement Type
JB_CD	Customer Job Code
LFTM_ARPU_LAST_MO	Lifetime ARPU as of 1 month ago
LIFE_SPN	Customer Life Span
LYLTY_PROG_BAL_LAST_MO	Loyalty Program Balance in last 1 month
MMS	Indicates whether Customer subscribed to MMS
MO_RVN_LAST_MO	Monthly Revenue as of 1 month ago
MRTL_STAT_CD	Individual Customer Marital Status Code
NTNLTY_CD	Customer Nationality Code
PORT_IN_CNT	Number of times the customer ported in
PORT_IN_FROM	Service Provide from who the customer ported out from
PORT_OUT_CNT	Number of times the customer ported out
POSTCD_CD	Postcard Code
PRTY_TYP_CD	Party Type Code. For example, Individual, Large Enterprise, Medium Enterprise, and so on.
REMNG_AGRMNT_AMT_LAST_MO	Remaining Agreement Amount in last 1 month
SBRP_CNT_LAST_MO	Subscription Count in last three months
SMS	Indicates whether Customer subscribed to SMS
SSPNSN_CNT_LAST_MO	Suspension Count in last three months
STATE	State
TOT_PYMT_RVN_LAST_MO	Total Payment Revenue as of 1 month ago
WAP	Indicates whether Customer subscribed to WAP

Targeted Promotion Output

Data in `DWV_PROD_MIX_SRC` view is used to train target promotion classification model for the product chosen. Data in `DWV_PROD_MIX_APPLY` view scored with the trained model and the scoring results are saved into `DWD_CUST_PROD_AFFLTN` table with the following columns:

- DWD_CUST_PROD_AFFLTN.AFFLTN_PROB
- DWD_CUST_PROD_AFFLTN.BUY_IND

Targeted Promotion Algorithm

The following algorithm is used to solve train the targeted promotion model:

- Support Vector Machines (SVM)

Targeted Promotion Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following is the setting table for targeted promotion:

- DM_STNG_CHURN_SVM - For Support Vector Machines

Model 5: Customer Life Time Value

Service Provider wants know how much valuable a customer is to the Service Provider for next *n* years into future. Customer predicted Life Time Value can be combined with customer predicted churn behavior to make important business decision such as whether to retain a customer. Customers predicted to have high LTV and also predicted to churn should be retained, whereas Customer predicted to have low LTV and also predicted to churn need not be retained. This is a regression model, where a continuous value is predicted and the source data is all those customers who have been on net for at least *n* years. *n* could be three or five years.

Customer Life Time Value Source

Table 10–13 shows the attributes identified from the Foundation Data Warehouse as input variables for Customer Life Time Value model.

Table 10–13 DWV_CUST_LTV_SRC

Attribute	Description
ACCPT_NWSLTR_IND	Indicates whether customer accepts News Letter
ACCT_TYP_CD	Account Type Code. For example, PSTPD - Postpaid, PRPD - Prepaid
ADDR_LOC_CD	Customer Address Location Code
AGE_BND_CD	Customer Age Band Code
AGE_ON_NET_BND_CD	Customer Age on Net Band Code
AGE_ON_NET_NBR	Customer Age on Net expressed in number of months
AGRMNT_CNT_LAST_3MO	Number of Agreements in last 3 months
AGRMNT_CNT_LAST_MO	Number of Agreements in last 1 month
AGRMNT_LFT_DAYS_LAST_3MO	Agreement Left Days in last 3 months
AGRMNT_LFT_DAYS_LAST_MO	Agreement Left Days in last 1 month
ARPU_BND_CD	Customer ARPU Band Code
AVG_DRTN_BTWN_RCHRG	Average duration between two recharges - in days
BARNG_RSN_CD	Customer Barring Reason Code
BLLG_ADDR_EFF_DT_NBR	Building Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
BNKRPT_STAT	Bankrupt Status
BNKRPT_STRT_DT_NBR	Bankrupt Start Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
BRDBND_IND	Indicates whether Customer has Broadband connection

Table 10–13 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
BSNS_LEGAL_STAT_CD	Legal Status Code of Enterprise Customers. For example, Public, Private
CAR_DRVR_LICNS_IND	Indicates whether customer has Car Driving License
CAR_TYP_CD	Car Type Code
CITY	City
CMPLNT_CNT_LAST_3MO	Number of complaints made by customer in last 3 months
CMPLNT_CNT_LAST_MO	Number of complaints made by customer in this month
CMPLNT_CNT_LFTM	Number of complaints made by customer in his/her life span
CMPNY_EMP_SZ_BND_CD	Enterprise Customer Employee Size Band Code
CMPNY_RVN_BND_CD	Enterprise Customer Revenue Band Code
CMPNY_TYP_CD	Company Type Code
CNCT_ADDR_EFF_DT_NBR	Customer Contact Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
CNTCT_ALLWD_IND	Indicates whether customer allows to contact
CNTRY	Country
COLL_ZIP_CD	College ZIP Code
CRDT_CTGRY_KEY	Customer Credit Category
CUST_BRANCH_CD	Customer Branch Code
CUST_CD	Customer Identifier
CUST_PYMT_RESPBL_IND	Indicates whether customer is responsible for making payments
CUST_RVN_BND_CD	Customer Revenue Band Code
CUST_SCR_CD	Customer SCR Code
CUST_TYP_CD	Customer Type Code
DAYS_BFR_FIRST_RCHRG	Days between first payment and first recharge
DAYS_BFR_FIRST_USE	Days between payment and first use
DEBT_AGNG_BND_CD_LAST_3MO	Debt Ageing Band Code in last 3 months
DEBT_AGNG_BND_CD_LAST_MO	Debt Ageing Band Code in last 1 month
DEBT_VAL_LAST_3MO	Debt Value in last 3 months
DEBT_VAL_LAST_MO	Debt Value in last 1 month
DRPD_CALLS_CNT_LAST_3MO	Number of dropped calls in last 3 months
DRPD_CALLS_CNT_LAST_MO	Number of dropped calls this month
DRPD_CALLS_CNT_LFTM	Number of dropped calls in customer life span
DWLNG_OWNER	Dwelling Owner
DWLNG_STAT	Dwelling Status
DWLNG_SZ	Dwelling Size
DWLNG_TENR	Dwelling Tenure
DWLNG_TYP	Dwelling Type
DWNLD_DATA_LAST_3MO	Data downloaded in KBs in last 3 months

Table 10–13 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
DWNLD_DATA_LAST_MO	Data downloaded in KBs in last 1 month
DWNLD_DATA_LFTM	Data downloaded in KBs in lifetime
ECNMCLY_ACTV_IND	Indicates whether a customer is economically Active
EDU_CD	Education Qualification Code
EFF_FROM_DT_NBR	Customer Effective From Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
END_OF_JB_AGRMNT_NBR	End of Job Agreement expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
ESTMTD_ACQSTN_COST	Customer Acquisition Estimated Cost
ETHNCTY	Customer Ethnicity
ETHNIC_BCKGRND	Customer Ethnic Background
EXTRNL_ORG_TYP_CD	External Organization Type Code
FORM_OF_EMPMNT	Form of Employment
FUTRE_AGRMNT_CNT_LAST_3MO	Number of Future Agreements in last 3 months
FUTRE_AGRMNT_CNT_LAST_MO	Number of Future Agreements in last 1 month
FUTRE_AGRMNT_DAYS_LAST_3MO	Future Agreement Days in last 3 months
FUTRE_AGRMNT_DAYS_LAST_MO	Future Agreement Days in last 1 month
GNDR_CD	Individual Customer Gender Code
HH_SZ	Household Size
HNGUP_CALLS_CNT_LAST_3MO	Number of hangup calls in last 3 months
HNGUP_CALLS_CNT_LAST_MO	Number of hangup calls this month
HNGUP_CALLS_CNT_LFTM	Number of hangup calls in customer life span
HOMTEL_IND	Indicates whether Customer has Home Telephone
IDD_IND	Indicates whether Customer subscribed to International Direct Dialing
JB_AGRMNT_TYP	Job Agreement Type
JB_CD	Customer Job Code
JB_POSN	Customer Job Position
LANG_CD	Language Code
LAST_INCOMING_USG_DT_NBR	When was last incoming call occurred
LAST_OUTGOING_USG_DT_NBR	When was last outgoing call occurred
LAST_RCHRG_AMT	Last recharge amount
LEGAL_TTL_TO_HSNG	Legal Title to Housing
LIFE_SPN	Customer Life Span
LIKE_SCP_IN_FCBK_IND	Indicates whether customer likes Service Provide page in Facebook
LVNG_AT_CURR_ADDR_SINCE_NBR	Since When Customer Living at Current Address expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.

Table 10–13 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
MAIL_ALWD_IND	Indicates whether Customer allows Service Provider to send mail
MAX_RCHRG_AMT	Maximum recharge amount
MIN_RCHRG_AMT	Minimum recharge amount
MMS_CNT_LAST_3MO	MMSs sent in last 3 months
MMS_CNT_LAST_MO	MMSs sent in last 1 month
MMS_CNT_LFTM	MMSs sent over customer's lifetime
MO_RVN_LAST_3MO	Monthly Revenue as of 3 months ago
MO_RVN_LAST_MO	Monthly Revenue as of 1 month ago
MRTL_STAT_CD	Individual Customer Marital Status Code
MULT_PRTY_ROLE_IND	Indicates whether customer has multiple party roles. For example, both an employee and customer of Service Provider
NAME_OF_WKPLC	Name of Workplace
NAME_PRFX	Name Prefix
NBR_CHLDRN_AT_COLL	Total Number of Children at College
NBR_CHLDRN_AT_SCHL	Total Number of Children at School
NBR_CHLDRN_AT_UNIV	Total Number of Children at University
NBR_EMP_SNC_CUST	Numbers of Employees Since Customer
NBR_OF_CHLDRN	Total Number of Children
NBR_OF_DPNDNT	Total Number of Dependents
NEW_ACCT_IND	Indicates whether Customer is New
NO_MTHS_CMPNY	Number of months an Individual Customer is in his/her current Company
NO_MTHS_POSN	Number of months an Individual Customer is in his/her current Position
NTNLTY_CD	Customer Nationality Code
OFFNET_AIRTIME_LAST_3MO	Total offnet airtime in minutes in last 3 months
OFFNET_AIRTIME_LAST_MO	Total offnet airtime in minutes in last 1 month
OFFNET_AIRTIME_LFTM	Total offnet airtime in minutes in lifetime
OFFNET_CALLS_LAST_3MO	Number of offnet calls in last 3 months
OFFNET_CALLS_LAST_MO	Number of offnet calls in last 1 month
OFFNET_CALLS_LFTM	Number of offnet calls in lifetime
ONNET_AIRTIME_LAST_3MO	Total onnet airtime in minutes in last 3 months
ONNET_AIRTIME_LAST_MO	Total onnet airtime in minutes in last 1 month
ONNET_AIRTIME_LFTM	Total onnet airtime in minutes in lifetime
ONNET_CALLS_LAST_3MO	Number of onnet calls in last 3 months
ONNET_CALLS_LAST_MO	Number of onnet calls in last 1 month
ONNET_CALLS_LFTM	Number of onnet calls in lifetime
OTH_DRVR_LICNS_IND	Indicates whether customer has other vehicle License
PAY_TV_IND	Indicates whether Customer has Pay TV connection

Table 10–13 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
PLC_OF_BRTH	Place of Birth
PORT_IN_CNT	Number of times the customer ported in
PORT_IN_FROM	Service Provide from who the customer ported out from
PORT_OUT_CNT	Number of times the customer ported out
POSTCD_CD	Postcard Code
PREF_CNTCT_MDM	Preferred Contact Method
PREF_ENTMNT_IND	Indicates whether customer given any Entitlement preference
PREF_GVN_IND	Indicates whether customer given any preference
PREF_MSC_IND	Indicates whether customer given any Music preference
PREF_PYMT_MTHD_TYP_CD	Preferred Payment Method Type Code
PREF_SPRT_IND	Indicates whether customer given any sport preference
PREF_TRVL_IND	Indicates whether customer given any Travel preference
PRMRY_STAT_CD	Customer Primary Status Code
PRMRY_STAT_RSN_CD	Customer Primary Status Reason Code
PRTY_AGE	Customer Age expressed as number of years
PRTY_TYP_CD	Party Type Code. For example, Individual, Large Enterprise, Medium Enterprise, and so on.
PYMT_ACCT_OPEN_DT_NBR	Payment Account Open Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
RLSD_CALLS_CNT_LAST_3MO	Number of released calls in last 3 months
RLSD_CALLS_CNT_LAST_MO	Number of released calls this month
RLSD_CALLS_CNT_LFTM	Number of released calls in customer life span
RMRK_CNT_LAST_3MO	Numbers of remarks made against customer in last 3 months
RMRK_CNT_LAST_MO	Numbers of remarks made against customer in this month
RMRK_CNT_LFTM	Numbers of remarks made against customer in his/her life span
SCHL_ZIP_CD	School ZIP Code
SCL_NTWK_USR_IND	Indicates whether customer uses any Social Network site
SL_CHNL_KEY	Sales Channel
SL_CHNL_RPRSTV_KEY	Sales Channel Representative
SMS_CNT_LAST_3MO	SMSs sent in last 3 months
SMS_CNT_LAST_MO	SMSs sent in last 1 month
SMS_CNT_LFTM	SMSs sent over customer's lifetime
SOC_JB_CD	SOC Job Code
SPRT_IND	Indicates whether customer plays Sports
SPRT_TYP_CD	Sport Type Code
SRC_OF_INCM	Source of Income
STATE	State

Table 10–13 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
STRT_OF_EMPMNT_NBR	Customer Start of Employment expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept DATE data type attributes, hence expressed as number.
TOT_AGE_CHLDRN	Total Age of Children
TOT_CALL_CNT_LAST_3MO	Total number of calls to Call center made by customer in last 3 months
TOT_CALL_CNT_LAST_MO	Total number of calls to Call center made by customer in this month
TOT_CALL_CNT_LFTM	Total number of calls to Call center made by customer in his/her life span
TOT_CNTRBTN_LAST_MO	Sum of total payments and total recharges made in the last one month
TOT_CNTRBTN_LFTM	Sum of total payments and total recharges made in customers life time
TOT_DAYS_ACTVTY	Total days of activity
TOT_DAYS_ON_USE	Total days on use
TOT_DAYS_OUTGOING_ACTVTY	Total days of outgoing activity
TOT_DRTN_OF_USG	Total durations of usage in customer life time
TOT_EXP_AMT_EQVLT_VAL	Total amount expired in customers life time
TOT_HLD_DRTN_LAST_3MO	Total hold duration in the last 3 months in seconds
TOT_HLD_DRTN_LAST_MO	Total hold duration this month in seconds
TOT_HLD_DRTN_LFTM	Total hold duration in customer life span in seconds
TOT_PYMT_RVN_LAST_3MO	Total Payment Revenue as of 3 months ago
TOT_PYMT_RVN_LAST_MO	Total Payment Revenue as of 1 month ago
TOT_QUE_DRTN_LAST_3MO	Total queue duration in the last 3 months in seconds
TOT_QUE_DRTN_LAST_MO	Total queue duration this month in seconds
TOT_QUE_DRTN_LFTM	Total queue duration in customer life span in seconds
TOT_RCHRG_AMT_LAST_3MO	Total recharge amount this month
TOT_RCHRG_AMT_LAST_MO	Total recharge amount in last 3 months
TOT_RCHRG_AMT_LFTM	Total recharge amount in customers life time
TOT_RCHRG_CNT_LAST_3MO	Number of recharges made in last 3 months
TOT_RCHRG_CNT_LAST_MO	Number of recharges made this month
TOT_RCHRG_CNT_LFTM	Number of recharges made in customer life time
TOT_TALK_DRTN_LAST_3MO	Total talk duration in the last 3 months in seconds
TOT_TALK_DRTN_LAST_MO	Total talk duration this month in seconds
TOT_TALK_DRTN_LFTM	Total talk duration in customer life span in seconds
TOT_UTILZD_EQVLT_VAL	Total utilized monetary value in customers life time
UNIV_ZIP_CD	University ZIP Code
UPLD_DATA_LAST_3MO	Data uploaded in KBs in last 3 months
UPLD_DATA_LAST_MO	Data uploaded in KBs in last 1 month
UPLD_DATA_LFTM	Data uploaded in KBs in lifetime
VOI_INTERNAT_AIRTIME_LAST_3MO	International voice air time including roaming in minutes in last three month

Table 10–13 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
VOI_INTERNAT_AIRTIME_LAST_MO	International voice air time in minutes including roaming in last one month
VOI_INTERNAT_AIRTIME_LFTM	International voice air time in minutes including roaming over customer's life time
VOI_NAT_AIRTIME_LAST_3MO	National voice air time in minutes in last three month
VOI_NAT_AIRTIME_LAST_MO	National voice air time in minutes in last one month
VOI_NAT_AIRTIME_LFTM	National voice air time in minutes over customer's life time
WRLS_IND	Indicates whether Customer has Wireless Internet connection

Customer Life Time Value Output Target Attribute: TOT_PYMT_RVN_LAST_MO

Data in `DWV_CUST_LTV_SRC` view is used to train Customer Life Time Value regression mining model. Data in `DWV_CUST_LTV_SGMNT_APPLY` view, which has all active customers' data, is scored using the trained model and scoring results are saved into `DWD_CUST_DNA` table with the following column:

- DWD_CUST_DNA.PRDCT_LTV_VALUE

Customer Life Time Value Algorithms

The following algorithm is used to predict the Life Time Value of active customer base:

- Generalized Linear Model Regression

Customer Life Time Value Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following is the setting table for customer Life Time Value:

- DM_STNG_LTV_GLMR - For Generalized Linear Model Regression

Model 6: Customer Life Time Survival Value

When the Service Provider wants to know how long a customer uses the services offered, rather than leaving you use the Life Time Survival Value rating. This is a regression model, where a continuous value is predicted and the source data is all those customers who have been on net for at least *n* years. where *n* could be 3 or 5 years.

Customer Life Time Value (LTV) Survival Source

Table 10–14 shows the attributes identified from the Foundation Data Warehouse as input variables for Customer Life Time Survival Value model.

Table 10–14 DWV_CUST_LTV_SRC

Attribute	Description
ACCPT_NWSLTR_IND	Indicates whether customer accepts News Letter
ACCT_TYP_CD	Account Type Code. For example, PSTPD - Postpaid, PRPD - Prepaid
ADDR_LOC_CD	Customer Address Location Code
AGE_BND_CD	Customer Age Band Code

Table 10–14 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
AGE_ON_NET_BND_CD	Customer Age on Net Band Code
AGE_ON_NET_NBR	Customer Age on Net expressed in number of months
AGRMNT_CNT_LAST_3MO	Number of Agreements in last 3 months
AGRMNT_CNT_LAST_MO	Number of Agreements in last 1 month
AGRMNT_LFT_DAYS_LAST_3MO	Agreement Left Days in last 3 months
AGRMNT_LFT_DAYS_LAST_MO	Agreement Left Days in last 1 month
ARPU_BND_CD	Customer ARPU Band Code
AVG_DRTN_BTWN_RCHRG	Average duration between two recharges - in days
BARNG_RSN_CD	Customer Barring Reason Code
BLLG_ADDR_EFF_DT_NBR	Building Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
BNKRPT_STAT	Bankrupt Status
BNKRPT_STRT_DT_NBR	Bankrupt Start Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
BRDBND_IND	Indicates whether Customer has Broadband connection
BSNS_LEGAL_STAT_CD	Legal Status Code of Enterprise Customers. For example, Public, Private
CAR_DRVR_LICNS_IND	Indicates whether customer has Car Driving License
CAR_TYP_CD	Car Type Code
CITY	City
CMPLNT_CNT_LAST_3MO	Number of complaints made by customer in last 3 months
CMPLNT_CNT_LAST_MO	Number of complaints made by customer in this month
CMPLNT_CNT_LFTM	Number of complaints made by customer in his/her life span
CMPNY_EMP_SZ_BND_CD	Enterprise Customer Employee Size Band Code
CMPNY_RVN_BND_CD	Enterprise Customer Revenue Band Code
CMPNY_TYP_CD	Company Type Code
CNCT_ADDR_EFF_DT_NBR	Customer Contact Address Effective Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
CNTCT_ALLWD_IND	Indicates whether customer allows to contact
CNTRY	Country
COLL_ZIP_CD	College ZIP Code
CRDT_CTGRY_KEY	Customer Credit Category
CUST_BRANCH_CD	Customer Branch Code
CUST_CD	Customer Identifier
CUST_PYMT_RESPBL_IND	Indicates whether customer is responsible for making payments
CUST_RVN_BND_CD	Customer Revenue Band Code
CUST_SCR_CD	Customer SCR Code

Table 10–14 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
CUST_TYP_CD	Customer Type Code
DAYS_BFR_FIRST_RCHRG	Days between first payment and first recharge
DAYS_BFR_FIRST_USE	Days between payment and first use
DEBT_AGNG_BND_CD_LAST_3MO	Debt Ageing Band Code in last 3 months
DEBT_AGNG_BND_CD_LAST_MO	Debt Ageing Band Code in last 1 month
DEBT_VAL_LAST_3MO	Debt Value in last 3 months
DEBT_VAL_LAST_MO	Debt Value in last 1 month
DRPD_CALLS_CNT_LAST_3MO	Number of dropped calls in last 3 months
DRPD_CALLS_CNT_LAST_MO	Number of dropped calls this month
DRPD_CALLS_CNT_LFTM	Number of dropped calls in customer life span
DWLNG_OWNER	Dwelling Owner
DWLNG_STAT	Dwelling Status
DWLNG_SZ	Dwelling Size
DWLNG_TENR	Dwelling Tenure
DWLNG_TYP	Dwelling Type
DWNLD_DATA_LAST_3MO	Data downloaded in KBs in last 3 months
DWNLD_DATA_LAST_MO	Data downloaded in KBs in last 1 month
DWNLD_DATA_LFTM	Data downloaded in KBs in lifetime
ECNMCLY_ACTV_IND	Indicates whether a customer is economically Active
EDU_CD	Education Qualification Code
EFF_FROM_DT_NBR	Customer Effective From Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
END_OF_JB_AGRMNT_NBR	End of Job Agreement expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
ESTMTD_ACQSTN_COST	Customer Acquisition Estimated Cost
ETHNCTY	Customer Ethnicity
ETHNIC_BCKGRND	Customer Ethnic Background
EXTRNL_ORG_TYP_CD	External Organization Type Code
FORM_OF_EMPMNT	Form of Employment
FUTRE_AGRMNT_CNT_LAST_3MO	Number of Future Agreements in last 3 months
FUTRE_AGRMNT_CNT_LAST_MO	Number of Future Agreements in last 1 month
FUTRE_AGRMNT_DAYS_LAST_3MO	Future Agreement Days in last 3 months
FUTRE_AGRMNT_DAYS_LAST_MO	Future Agreement Days in last 1 month
GNDR_CD	Individual Customer Gender Code
HH_SZ	Household Size
HNGUP_CALLS_CNT_LAST_3MO	Number of hangup calls in last 3 months
HNGUP_CALLS_CNT_LAST_MO	Number of hangup calls this month

Table 10–14 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
HNGUP_CALLS_CNT_LFTM	Number of hangup calls in customer life span
HOMTEL_IND	Indicates whether Customer has Home Telephone
IDD_IND	Indicates whether Customer subscribed to International Direct Dialing
JB_AGRMNT_TYP	Job Agreement Type
JB_CD	Customer Job Code
JB_POSN	Customer Job Position
LANG_CD	Language Code
LAST_INCOMING_USG_DT_NBR	When was last incoming call occurred
LAST_OUTGOING_USG_DT_NBR	When was last outgoing call occurred
LAST_RCHRG_AMT	Last recharge amount
LEGAL_TTL_TO_HSNG	Legal Title to Housing
LIFE_SPN	Customer Life Span
LIKE_SCP_IN_FCBK_IND	Indicates whether customer likes Service Provide page in Facebook
LVNG_AT_CURR_ADDR_SINCE_NBR	Since When Customer Living at Current Address expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
MAIL_ALWD_IND	Indicates whether Customer allows Service Provider to send mail
MAX_RCHRG_AMT	Maximum recharge amount
MIN_RCHRG_AMT	Minimum recharge amount
MMS_CNT_LAST_3MO	MMSs sent in last 3 months
MMS_CNT_LAST_MO	MMSs sent in last 1 month
MMS_CNT_LFTM	MMSs sent over customer's lifetime
MO_RVN_LAST_3MO	Monthly Revenue as of 3 months ago
MO_RVN_LAST_MO	Monthly Revenue as of 1 month ago
MRTL_STAT_CD	Individual Customer Marital Status Code
MULT_PRTY_ROLE_IND	Indicates whether customer has multiple party roles. For example, both an employee and customer of Service Provider
NAME_OF_WKPLC	Name of Workplace
NAME_PRFX	Name Prefix
NBR_CHLDRN_AT_COLL	Total Number of Children at College
NBR_CHLDRN_AT_SCHL	Total Number of Children at School
NBR_CHLDRN_AT_UNIV	Total Number of Children at University
NBR_EMP_SNC_CUST	Numbers of Employees Since Customer
NBR_OF_CHLDRN	Total Number of Children
NBR_OF_DPNDNT	Total Number of Dependents
NEW_ACCT_IND	Indicates whether Customer is New
NO_MTHS_CMPNY	Number of months an Individual Customer is in his/her current Company
NO_MTHS_POSN	Number of months an Individual Customer is in his/her current Position

Table 10–14 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
NTNLTY_CD	Customer Nationality Code
OFFNET_AIRTIME_LAST_3MO	Total offnet airtime in minutes in last 3 months
OFFNET_AIRTIME_LAST_MO	Total offnet airtime in minutes in last 1 month
OFFNET_AIRTIME_LFTM	Total offnet airtime in minutes in lifetime
OFFNET_CALLS_LAST_3MO	Number of offnet calls in last 3 months
OFFNET_CALLS_LAST_MO	Number of offnet calls in last 1 month
OFFNET_CALLS_LFTM	Number of offnet calls in lifetime
ONNET_AIRTIME_LAST_3MO	Total onnet airtime in minutes in last 3 months
ONNET_AIRTIME_LAST_MO	Total onnet airtime in minutes in last 1 month
ONNET_AIRTIME_LFTM	Total onnet airtime in minutes in lifetime
ONNET_CALLS_LAST_3MO	Number of onnet calls in last 3 months
ONNET_CALLS_LAST_MO	Number of onnet calls in last 1 month
ONNET_CALLS_LFTM	Number of onnet calls in lifetime
OTH_DRVR_LICNS_IND	Indicates whether customer has other vehicle License
PAY_TV_IND	Indicates whether Customer has Pay TV connection
PLC_OF_BRTH	Place of Birth
PORT_IN_CNT	Number of times the customer ported in
PORT_IN_FROM	Service Provide from who the customer ported out from
PORT_OUT_CNT	Number of times the customer ported out
POSTCD_CD	Postcard Code
PREF_CNTCT_MDM	Preferred Contact Method
PREF_ENTMNT_IND	Indicates whether customer given any Entitlement preference
PREF_GVN_IND	Indicates whether customer given any preference
PREF_MSC_IND	Indicates whether customer given any Music preference
PREF_PYMT_MTHD_TYP_CD	Preferred Payment Method Type Code
PREF_SPRT_IND	Indicates whether customer given any sport preference
PREF_TRVL_IND	Indicates whether customer given any Travel preference
PRMRY_STAT_CD	Customer Primary Status Code
PRMRY_STAT_RSN_CD	Customer Primary Status Reason Code
PRTY_AGE	Customer Age expressed as number of years
PRTY_TYP_CD	Party Type Code. For example, Individual, Large Enterprise, Medium Enterprise, and so on.
PYMT_ACCT_OPEN_DT_NBR	Payment Account Open Date expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
RLSD_CALLS_CNT_LAST_3MO	Number of released calls in last 3 months
RLSD_CALLS_CNT_LAST_MO	Number of released calls this month
RLSD_CALLS_CNT_LFTM	Number of released calls in customer life span

Table 10–14 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
RMRK_CNT_LAST_3MO	Numbers of remarks made against customer in last 3 months
RMRK_CNT_LAST_MO	Numbers of remarks made against customer in this month
RMRK_CNT_LFTM	Numbers of remarks made against customer in his/her life span
SCHL_ZIP_CD	School ZIP Code
SCL_NTWK_USR_IND	Indicates whether customer uses any Social Network site
SL_CHNL_KEY	Sales Channel
SL_CHNL_RPRSTV_KEY	Sales Channel Representative
SMS_CNT_LAST_3MO	SMSs sent in last 3 months
SMS_CNT_LAST_MO	SMSs sent in last 1 month
SMS_CNT_LFTM	SMSs sent over customer's lifetime
SOC_JB_CD	SOC Job Code
SPRT_IND	Indicates whether customer plays Sports
SPRT_TYP_CD	Sport Type Code
SRC_OF_INCM	Source of Income
STATE	State
STRT_OF_EMPMNT_NBR	Customer Start of Employment expressed as number against a reference date, 1st January 2000. Oracle Data Mining does not accept `DATE` data type attributes, hence expressed as number.
TOT_AGE_CHLDRN	Total Age of Children
TOT_CALL_CNT_LAST_3MO	Total number of calls to Call center made by customer in last 3 months
TOT_CALL_CNT_LAST_MO	Total number of calls to Call center made by customer in this month
TOT_CALL_CNT_LFTM	Total number of calls to Call center made by customer in his/her life span
TOT_CNTRBTN_LAST_MO	Sum of total payments and total recharges made in the last one month
TOT_CNTRBTN_LFTM	Sum of total payments and total recharges made in customers life time
TOT_DAYS_ACTVTY	Total days of activity
TOT_DAYS_ON_USE	Total days on use
TOT_DAYS_OUTGOING_ACTVTY	Total days of outgoing activity
TOT_DRTN_OF_USG	Total durations of usage in customer life time
TOT_EXP_AMT_EQVLT_VAL	Total amount expired in customers life time
TOT_HLD_DRTN_LAST_3MO	Total hold duration in the last 3 months in seconds
TOT_HLD_DRTN_LAST_MO	Total hold duration this month in seconds
TOT_HLD_DRTN_LFTM	Total hold duration in customer life span in seconds
TOT_PYMT_RVN_LAST_3MO	Total Payment Revenue as of 3 months ago
TOT_PYMT_RVN_LAST_MO	Total Payment Revenue as of 1 month ago
TOT_QUE_DRTN_LAST_3MO	Total queue duration in the last 3 months in seconds
TOT_QUE_DRTN_LAST_MO	Total queue duration this month in seconds
TOT_QUE_DRTN_LFTM	Total queue duration in customer life span in seconds

Table 10–14 (Cont.) DWV_CUST_LTV_SRC

Attribute	Description
TOT_RCHRG_AMT_LAST_3MO	Total recharge amount this month
TOT_RCHRG_AMT_LAST_MO	Total recharge amount in last 3 months
TOT_RCHRG_AMT_LFTM	Total recharge amount in customers life time
TOT_RCHRG_CNT_LAST_3MO	Number of recharges made in last 3 months
TOT_RCHRG_CNT_LAST_MO	Number of recharges made this month
TOT_RCHRG_CNT_LFTM	Number of recharges made in customer life time
TOT_TALK_DRTN_LAST_3MO	Total talk duration in the last 3 months in seconds
TOT_TALK_DRTN_LAST_MO	Total talk duration this month in seconds
TOT_TALK_DRTN_LFTM	Total talk duration in customer life span in seconds
TOT_UTILZD_EQVLT_VAL	Total utilized monetary value in customers life time
UNIV_ZIP_CD	University ZIP Code
UPLD_DATA_LAST_3MO	Data uploaded in KBs in last 3 months
UPLD_DATA_LAST_MO	Data uploaded in KBs in last 1 month
UPLD_DATA_LFTM	Data uploaded in KBs in lifetime
VOI_INTERNAT_AIRTIME_LAST_ 3MO	International voice air time including roaming in minutes in last three month
VOI_INTERNAT_AIRTIME_LAST_MO	International voice air time in minutes including roaming in last one month
VOI_INTERNAT_AIRTIME_LFTM	International voice air time in minutes including roaming over customer's life time
VOI_NAT_AIRTIME_LAST_3MO	National voice air time in minutes in last three month
VOI_NAT_AIRTIME_LAST_MO	National voice air time in minutes in last one month
VOI_NAT_AIRTIME_LFTM	National voice air time in minutes over customer's life time
WRLS_IND	Indicates whether Customer has Wireless Internet connection

Customer Life Time Value Survival Output Target Attribute: AGE_ON_NET_NBR

Data in `DWV_CUST_LTV_SRC` view is used to train Customer Life Time Survival Value regression mining model. Data in `DWV_CUST_LTV_SGMNT_APPLY` view, which has all active customers' data, is scored using the trained model and scoring results are saved into `DWD_CUST_DNA` table with the following column:

- DWD_CUST_DNA.PRDCT_LT_SRVVL_VAL

Customer Life Time Value Survival Algorithms

The following algorithm is used to predict the Lifetime Value of active customer base:

- Generalized Linear Model Regression

Customer Life Time Value Survival Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following is the setting table for customer Life Time Survival Value:

- DM_STNG_LTV_GLMR - For Generalized Linear Model Regression

Model 7: Customer Sentiment

The business problem is to measure customer sentiment regarding the service quality according to any text message received from the customer. Those text messages may be emails from customer, or written down by call center agents during call center calls, and so on.

This model leverages Text mining capability provided by Oracle database. For more information on mining algorithms, see *Oracle Data Mining Concepts* and *Oracle Data Mining Application Developer's Guide*.

Customer Sentiment Source

The table DM_CUST_CMMNT is the main source table for Customer Sentiment classification model. The data in this table further transformed using Oracle Text to make it ready to be accepted by Oracle Data Mining.

Table 10–15 shows DM_CUST_CMMNT attributes.

Table 10–15 DM_CUST_CMMNT Customer Sentiment Source Table

Attribute	Data Type	Description
CUST_CMMNT	VARCHAR2(4000)	The text messages all together from the customer.
CUST_KEY	NUMBER(30)	Customer Key
MANUAL_SCORE	VARCHAR2(40)	Manual scores or manually adjusted after reading
MINUSPROB	NUMBER(20,16)	The probability of customer belonging to un-happy group
PLUSPROB	NUMBER(20,16)	The probability of customer belonging to happy group
SENTIMENT	VARCHAR2(40)	Sentiment scored by Mining Model

Customer Sentiment Output

The text mining sentiment analysis can be refined by extending the dictionary table DWD_CUST_SNTMNT_MANUAL_SCORE to improve the performance of the model. Predefined dictionary is used to manually score customers, who are not scored by customer call center. Data of manually scored and customer call center scored customers is used to train Customer Sentiment mining model. The trained mining model is then used to score customers' comments and the scoring results are saved into DWD_CUST_DNA table with the following columns:

- DWD_CUST_DNA.SNTMNT_CTGRY_CD
- DWD_CUST_DNA.MANUAL_SNTMNT_CTGRY
- DWD_CUST_DNA. SNTMNT_PROB

Customer Sentiment Algorithm

This model uses the Oracle Text option first to transform Customer comments, then uses the SVM algorithm to train the model.

- Oracle Text
- Support Vector Machines

Customer Sentiment Algorithm Setting Tables

Algorithm settings tables allow you to override default values of different settings for mining algorithms. The following is the setting table for customer sentiment:

- DM_STNG_SENTIMENT_SVM - For Generalized Linear Model Regression

Oracle Communications Data Model Mining Setting Tables

The algorithm setting tables allow you to override the default values of different settings for the Oracle Communications Data Model data mining algorithms.

Table 10–16 shows the data mining setting table setting structure for each of the following algorithms:

- DM_STNG_USER_ALL
- DM_STNG_SENTIMENT_SVM
- DM_STNG_LTV_GLMR
- DM_STNG_CHURN_SVM
- DM_STNG_CHURN_DT
- DM_STNG_PROFILE_KMEANS
- DM_STNG_ATRIB_IMPORTANCE

Table 10–16 Data Mining Algorithm Setting Table Structure

Name	Data Type	Description
SETTING_NAME	VARCHAR2(500)	Setting Name
SETTING_VALUE	VARCHAR2(500)	Setting Value

Table 10–17 shows the data mining setting table structure for DM_STNG_CHURN_SVM_PRIORS.

Table 10–17 DM_STNG_CHURN_SVM_PRIORS Data Mining Algorithm Setting Table

Name	Data Type	Description
TARGET_VALUE	NUMBER	Target Value. For SVM Churn model, target value is either 1 or 0.
PRIOR_PROBABILITY	NUMBER	Prior probability of the target value.

Table 10–18 shows the data mining setting table structure for DM_STNG_CHURN_DT_COST.

Table 10–18 DM_STNG_CHURN_DT_COST Data Mining Algorithm Setting Table

Name	Data Type	Description
ACTUAL_TARGET_VALUE	NUMBER	Actual Target Value. For DT Churn model, target value is either 1 or 0.
PREDICTED_TARGET_VALUE	NUMBER	Target Value predicted by DT Churn model. Predicted target value is either 1 or 0.
COST	NUMBER	Cost of misclassification

Oracle Communications Data Model Data Mining Related Tables

In addition to result tables described in "Oracle Communications Data Model Result Tables" section, there are few more result tables, few lookup tables, and a table for predefined dictionary to manually score customers' comments.

Table 10–19 shows the DWD_CUST_SNTMNT_MANUAL_SCORE table. This predefined dictionary table manually scores customers' comments.

Table 10–19 DWD_CUST_SNTMNT_MANUAL_SCORE Data Mining Source Table

Name	Data Type	Description
SENTIMENT_EXPRSN	VARCHAR2(100)	Sentiment expression that customer give in e-mail or on phone.
SENTIMENT_SCORE	VARCHAR2(30)	Sentiment score for the expression. It is "-" or "+"

Table 10–20 DWL_MNNG_CHRN_TYP Data Mining Lookup Table

Name	Data Type	Description
LANG_CD	VARCHAR2(30)	Language Code
CHRN_TYP_CD	VARCHAR2(120)	Churn Type Code. It is 1 or 0.
CHRN_TYP_NAME	VARCHAR2(200)	Churn Type Name. It is "Churner" or "Non-Churner"
CHRN_TYP_DSCR	VARCHAR2(400)	Churn Type Description

Table 10–21 DWL_MNNG_SNTMNT_CTGRY Data Mining Lookup Table

Name	Data Type	Description
LANG_CD	VARCHAR2(30)	Language Code
SNTMNT_CTGRY_CD	VARCHAR2(30)	Sentiment Category Code. For e.g. Angry, Satisfied
SNTMNT_CTGRY_NAME	VARCHAR2(50)	Sentiment Category Name
SNTMNT_CTGRY_DSCR	VARCHAR2(500)	Sentiment Category Description

Table 10–22 DWL_MNNG_LTV_BAND Data Mining Result Table

Name	Data Type	Description
LANG_CD	VARCHAR2(30)	Language Code
LTV_BAND_CD	VARCHAR2(30)	Life Time Value Band Code
LTV_BAND_NAME	VARCHAR2(50)	Life Time Value Band Name
LTV_BAND_DSCR	VARCHAR2(500)	Life Time Value Band Description

Table 10–23 DWL_MNNG_LT_SRVVL_BAND Data Mining Result Table

Name	Data Type	Description
LANG_CD	VARCHAR2(30)	Language Code
LT_SRVVL_BAND_CD	VARCHAR2(30)	Life Time Survival Value Band Code
LT_SRVVL_BAND_NAME	VARCHAR2(50)	Life Time Survival Value Band Name
LT_SRVVL_BAND_DSCR	VARCHAR2(500)	Life Time Survival Value Band Description

Table 10–24 Sequences Defined for Data Mining

Table Name	Sequence Name
DWR_CUST_SGMNT	CUST_SGMNT_SEQ

Data Mining Package Customer Life Time Value Computation

In addition to the prebuilt data mining models, Oracle Communications Data Model core data mining package also includes a procedure for prepaid and postpaid customers to compute the Customer Life Time Value:

- PKG_OCDM_MINING.COMPUTE_PRPD_CUST_LTV
- PKG_OCDM_MINING.COMPUTE_PSTPD_CUST_LTV

The packages compute a value for a Service Provider that wants to know how valuable a customer would be to the Service Provider for next *n* months into future. The computation of the Life Time Value is different for prepaid and postpaid customers.

Prepaid Customer Life Time Value Computation

The computation of prepaid customer Life Time Value involves the parameters shown in Table 10–25, set in the DM_STNG_USER_ALL table. These settings can be updated according to Service Provider requirements.

Table 10–25 Prepaid Customer Life Time Value Computation

Parameter	Description
PREPAID_MARGIN_RATE (**m**)	% Profit margin of all prepaid customers
PREPAID_HISTORY_MONTHS (**h**)	Historical data to calculate Average Monthly Recharge Amount for each customer
ANNUAL_DISCOUNT_RATE (**i**)	Specifies the interest rate used in discounted cash flow analysis to determine the present value of cash flows. Usually it falls between 8% and 15%
CUST_LIFETIME_VALUE_COMPUATION_TIME_MONTHS (**T**)	Specifies for how long the Service Provider wants to calculate the Life Time Value

In addition to the parameters shown in Table 10–25, the prepaid customer Life Time Value calculation also involves the values shown in Table 10–26.

Table 10–26 Prepaid Customer Life Time Value Additional Required Parameter Values

Parameter	Description
RETENTION RATE (r)	1- the Predicted Churn Probability. The Predicted Churn Probability is retrieved from the DWD_CUST_DNA table.
AVERAGE MONTHLY RECHARGE AMOUNT or REVENUE (R)	Ratio of "Sum of all recharges in last *PREPAID_HISTORY_MONTHS"* to "*PREPAID_HISTORY_MONTHS"*

Prepaid Customer Life Time Value Calculation

Prepaid Customer Life Time Value =

$$\sum_{t=1}^{T} \frac{[R] - [R * (1 - m)]}{\left(1 + \left(i/12\right)\right)^{t}} * r$$

The computed prepaid Customer Life Time Value is saved to DWD_CUST_DNA table in the following column:

- DWD_CUST_DNA. CMPTD_LTV_VALUE

Postpaid Customer Life Time Value Computation

The computation of postpaid customer Life Time Value involves the parameters shown in Table 10–27, which are all settings in the DM_STNG_USER_ALL table. These settings can be updated according to Service Provider requirements.

Table 10–27 Postpaid Customer Life Time Value Computation

Parameter	Description
POSTPAID_MARGIN_RATE (**m**)	% Profit margin of all postpaid customers
POSTPAID_HISTORY_MONTHS (**h**)	Specifies the historical data to calculate Average Monthly Billed Amount for each customer
ANNUAL_DISCOUNT_RATE (**i**)	Specifies the interest rate used in discounted cash flow analysis to determine the present value of cash flows. Usually it falls between 8% and 15%
CUST_LIFETIME_VALUE_ COMPUATION_TIME_MONTHS (**T**)	Specifies how long the Service Provider wants to calculate the Life Time Value

In addition to the parameters specified in Table 10–27, the calculation also involves the parameters shown in Table 10–28.

Table 10–28 Postpaid Customer Life Time Value Additional Required Parameter Values

Parameter	Description
RETENTION RATE (r)	1- the Predicted Churn Probability. The Predicted Churn Probability is retrieved from the `DWD_CUST_DNA` table.
AVERAGE MONTHLY BILLED AMOUNT or REVENUE (R)	Ratio of "Sum of all Billed amounts in last *POSTPAID_HISTORY_ MONTHS"* to "*POSTPAID_HISTORY_MONTHS"*

Postpaid Customer Life Time Value Calculation

Postpaid Customer Life Time Value =

$$\sum_{t=1}^{T} \frac{\left[\frac{R}{\left(1+\left(\frac{i}{360}\right)\right)^{30}}\right] - \left[R*(1-m)\right]}{\left(1+\left(\frac{i}{12}\right)\right)^{t}} * r$$

The computed postpaid Customer Life Time Value is saved in the table DWD_CUST_ DNA with the following column:

- DWD_CUST_DNA. CMPTD_LTV_VALUE

11

Oracle Communications Data Model Utility Scripts

This chapter describes the Oracle Communications Data Model utility scripts.

This chapter includes the following sections:

Calendar Population

The Calendar population scripts consist of two one-time installation packages.

Calendar Population Scripts

The Calendar population scripts include the following packages:

- `calendar_population_header.sql`
- `calendar_population_body.sql`

Running these packages does the following:

1. Prepares necessary changes for the OCDM_SYS schema.
2. Creates the Calendar_Population package that contains the following procedures:
   - RUN(*in_setup_start_date*, *in_setup_no_years*) is the main procedure to populate everything about calendar.
   - RBIW_Base_Time_Tables_ddl creates the base table needed to support multiple hierarchies: Business or Calendar.
   - RBIW_Populate_Time_Hier_Bsns(*in_setup_start_date*, *in_setup_no_years*) sets up the data in base table for the Business hierarchy as specified in setup or install section.
   - RBIW_Populate_Time_Hier_Clndr(*in_setup_start_date*, *in_setup_no_years*) sets up the data in base table for the Calendar hierarchy as specified in setup or install section.
   - RBIW_Time_hier_Star sets up the Time hierarchy reporting layer tables.
   - RBIW_Time_Views sets up the Time hierarchy reporting layer views, star and hybrid snowflake views.
   - RBIW_Populate_Time_Transform populates the Time transformation tables using the base Time tables or views created above. It populates transformation data for both hierarchies: Business and Calendar.

How to Populate Calendar Data

To populate calendar data:

1. Log in to OCDM_SYS user.
2. Execute the following SQL statement:

   ```
   exec Calendar_Population.run(date,num_years);
   ```

   where, *date* is the start date with which you want to populate calendar data. It is of type CHAR and should be input in the format 'YYYY-MM-DD' (for example,'2005-05-18'). *num_years* is the number of years to populate calendar data, which should be INTEGER.

Part III

Sample Reports

This part includes information on Oracle Communications Data Model sample reports.

Part III contains the following chapters:

- Chapter 12, "Oracle Communications Data Model Reports"

12

Oracle Communications Data Model Reports

This chapter provides Oracle Communications Data Model reports.

> **Note:** Some of the reports shown may appear incomplete. The sample reports shown use manually generated data, and for data privacy and regulatory reasons, it shows only made up customers (with real data). Hence, if you notice data inconsistency between the reports, this is not due to Oracle Communications Data Model, but due to the sample data.
>
> The reports shown in this chapter appear as shown when you install Oracle Communications Data Model with the sample data.

This chapter includes the following sections:

Customer Management Reports

The customer management reports include the following areas:

Customer Acquisition

This area includes the reports: Customer Acquisition, and Customer Acquisition Forecast.

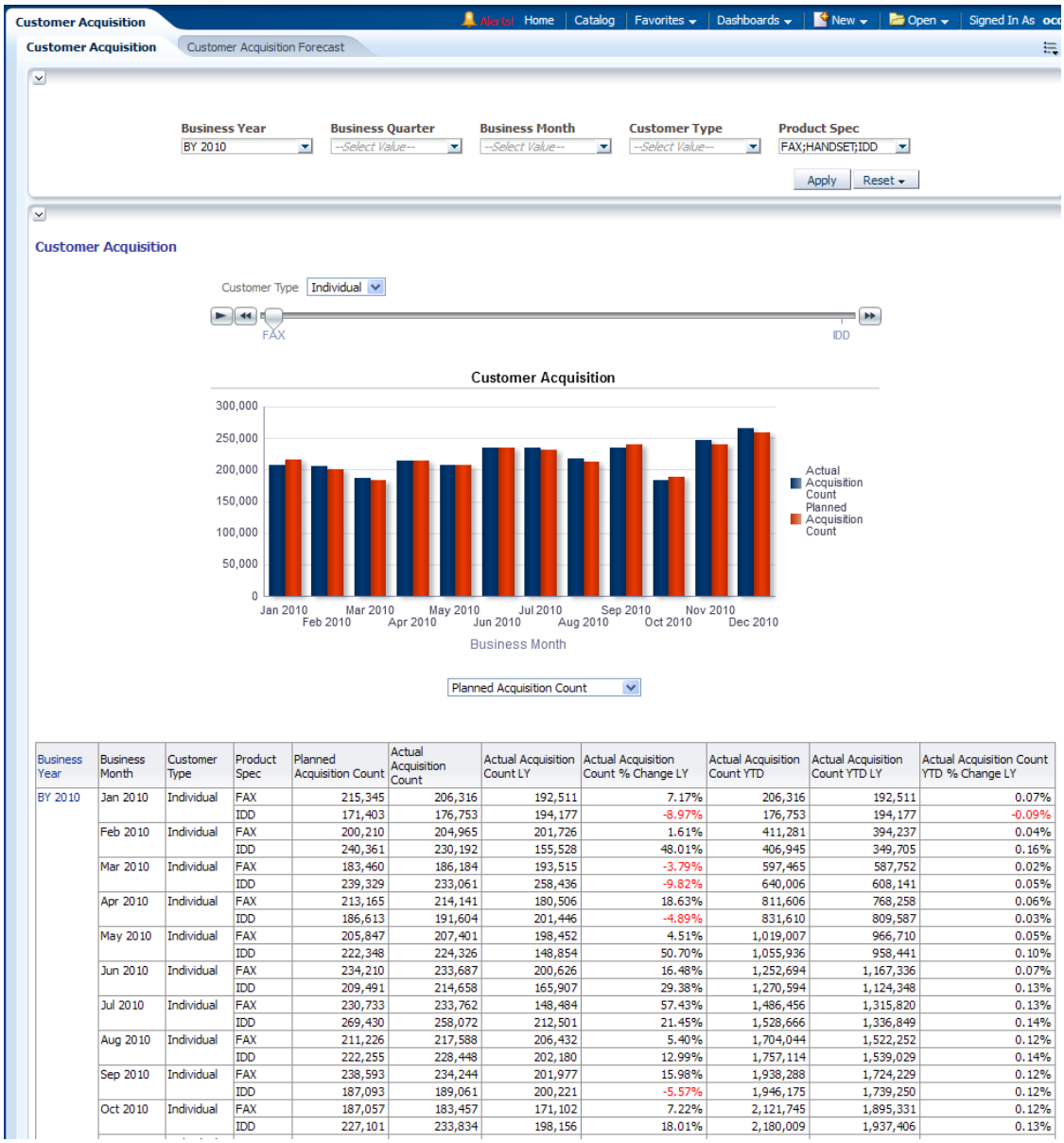
Customer Acquisition

This report, as shown in Figure 12–1 provides the yearly and monthly number of customers to be acquired compared with actual customers acquired by product and with respective to customers type. All time transformation variation of Customer Acquisition numbers are displayed, including Last Year (LY) and Year to Date (YTD). Users can select certain products, organizations, and customer's type to narrow down the customer numbers.

Report dimensions are:

- Business Time
- Product Spec
- Customer Type

Figure 12–1 Customer Acquisition Report



Business Year	Business Month	Customer Type	Product Spec	Planned Acquisition Count	Actual Acquisition Count	Actual Acquisition Count LY	Actual Acquisition Count % Change LY	Actual Acquisition Count YTD	Actual Acquisition Count YTD LY	Actual Acquisition Count YTD % Change LY
BY 2010	Jan 2010	Individual	FAX	215,345	206,316	192,511	7.17%	206,316	192,511	0.07%
			IDD	171,403	176,753	194,177	-8.97%	176,753	194,177	-0.09%
	Feb 2010	Individual	FAX	200,210	204,965	201,726	1.61%	411,281	394,237	0.04%
			IDD	240,361	230,192	155,528	48.01%	406,945	349,705	0.16%
	Mar 2010	Individual	FAX	183,460	186,184	193,515	-3.79%	597,465	587,752	0.02%
			IDD	239,329	233,061	258,436	-9.82%	640,006	608,141	0.05%
	Apr 2010	Individual	FAX	213,165	214,141	180,506	18.63%	811,606	768,258	0.06%
			IDD	186,613	191,604	201,446	-4.89%	831,610	809,587	0.03%
	May 2010	Individual	FAX	205,847	207,401	198,452	4.51%	1,019,007	966,710	0.05%
			IDD	222,348	224,326	148,854	50.70%	1,055,936	958,441	0.10%
	Jun 2010	Individual	FAX	234,210	233,687	200,626	16.48%	1,252,694	1,167,336	0.07%
			IDD	209,491	214,658	165,907	29.38%	1,270,594	1,124,348	0.13%
	Jul 2010	Individual	FAX	230,733	233,762	148,484	57.43%	1,486,456	1,315,820	0.13%
			IDD	269,430	258,072	212,501	21.45%	1,528,666	1,336,849	0.14%
	Aug 2010	Individual	FAX	211,226	217,588	206,432	5.40%	1,704,044	1,522,252	0.12%
			IDD	222,255	228,448	202,180	12.99%	1,757,114	1,539,029	0.14%
	Sep 2010	Individual	FAX	238,593	234,244	201,977	15.98%	1,938,288	1,724,229	0.12%
			IDD	187,093	189,061	200,221	-5.57%	1,946,175	1,739,250	0.12%
	Oct 2010	Individual	FAX	187,057	183,457	171,102	7.22%	2,121,745	1,895,331	0.12%
			IDD	227,101	233,834	198,156	18.01%	2,180,009	1,937,406	0.13%

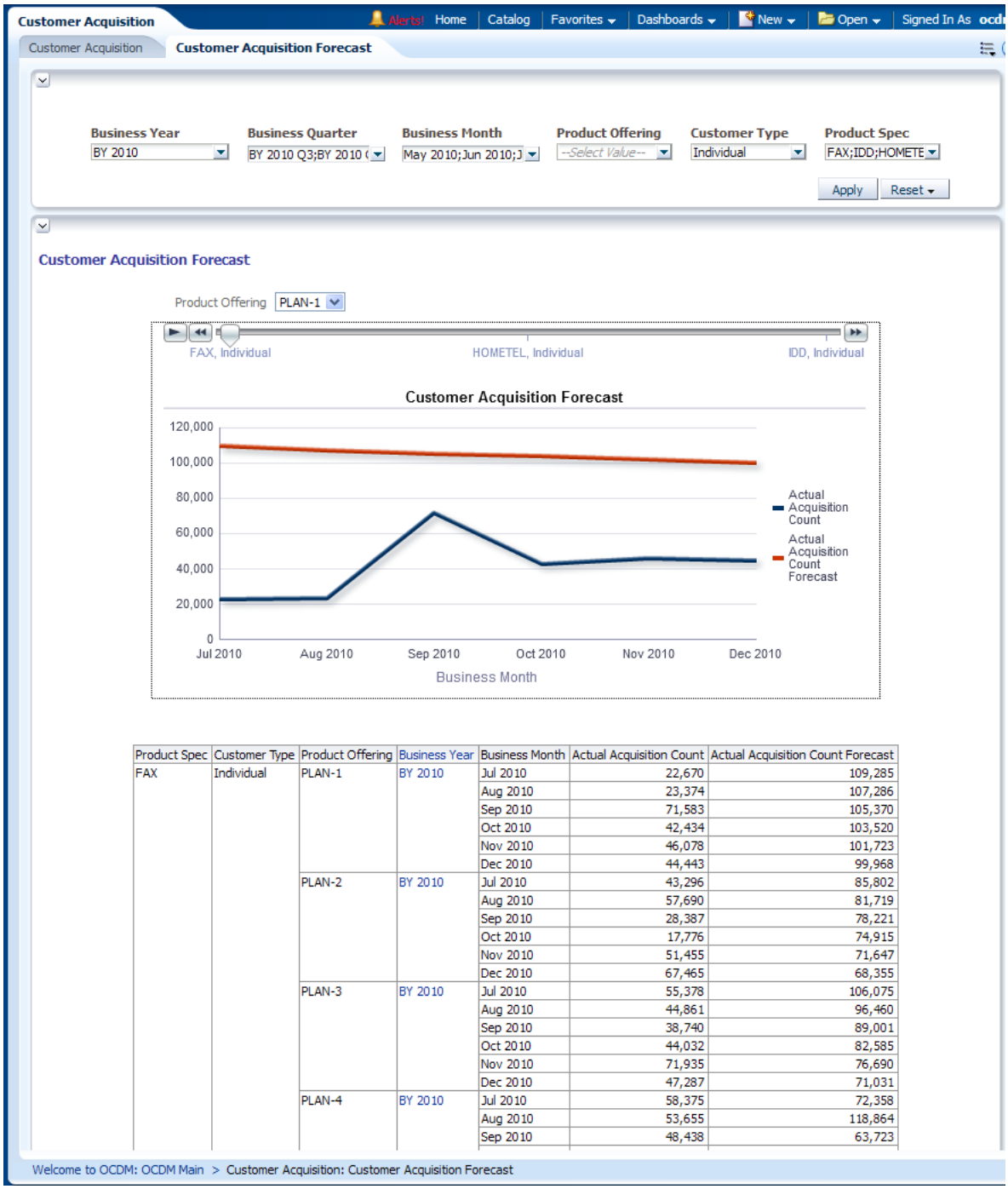
Customer Acquisition Forecast

This report, as shown in Figure 12–2 provides the yearly and monthly level forecasting of customers count to be acquired versus the actual customers acquired by product offering and customers type.

Report dimensions are:

- Business Time
- Product Offering
- Customer Type
- Product Spec

Figure 12–2 Customer Acquisition Forecast Report



Product Spec	Customer Type	Product Offering	Business Year	Business Month	Actual Acquisition Count	Actual Acquisition Count Forecast
FAX	Individual	PLAN-1	BY 2010	Jul 2010	22,670	109,285
				Aug 2010	23,374	107,286
				Sep 2010	71,583	105,370
				Oct 2010	42,434	103,520
				Nov 2010	46,078	101,723
				Dec 2010	44,443	99,968
		PLAN-2	BY 2010	Jul 2010	43,296	85,802
				Aug 2010	57,690	81,719
				Sep 2010	28,387	78,221
				Oct 2010	17,776	74,915
				Nov 2010	51,455	71,647
				Dec 2010	67,465	68,355
		PLAN-3	BY 2010	Jul 2010	55,378	106,075
				Aug 2010	44,861	96,460
				Sep 2010	38,740	89,001
				Oct 2010	44,032	82,585
				Nov 2010	71,935	76,690
				Dec 2010	47,287	71,031
		PLAN-4	BY 2010	Jul 2010	58,375	72,358
				Aug 2010	53,655	118,864
				Sep 2010	48,438	63,723

Customer Growth Rate

This area includes the reports: Customer Growth Rate and Customer Growth Trend Forecast.

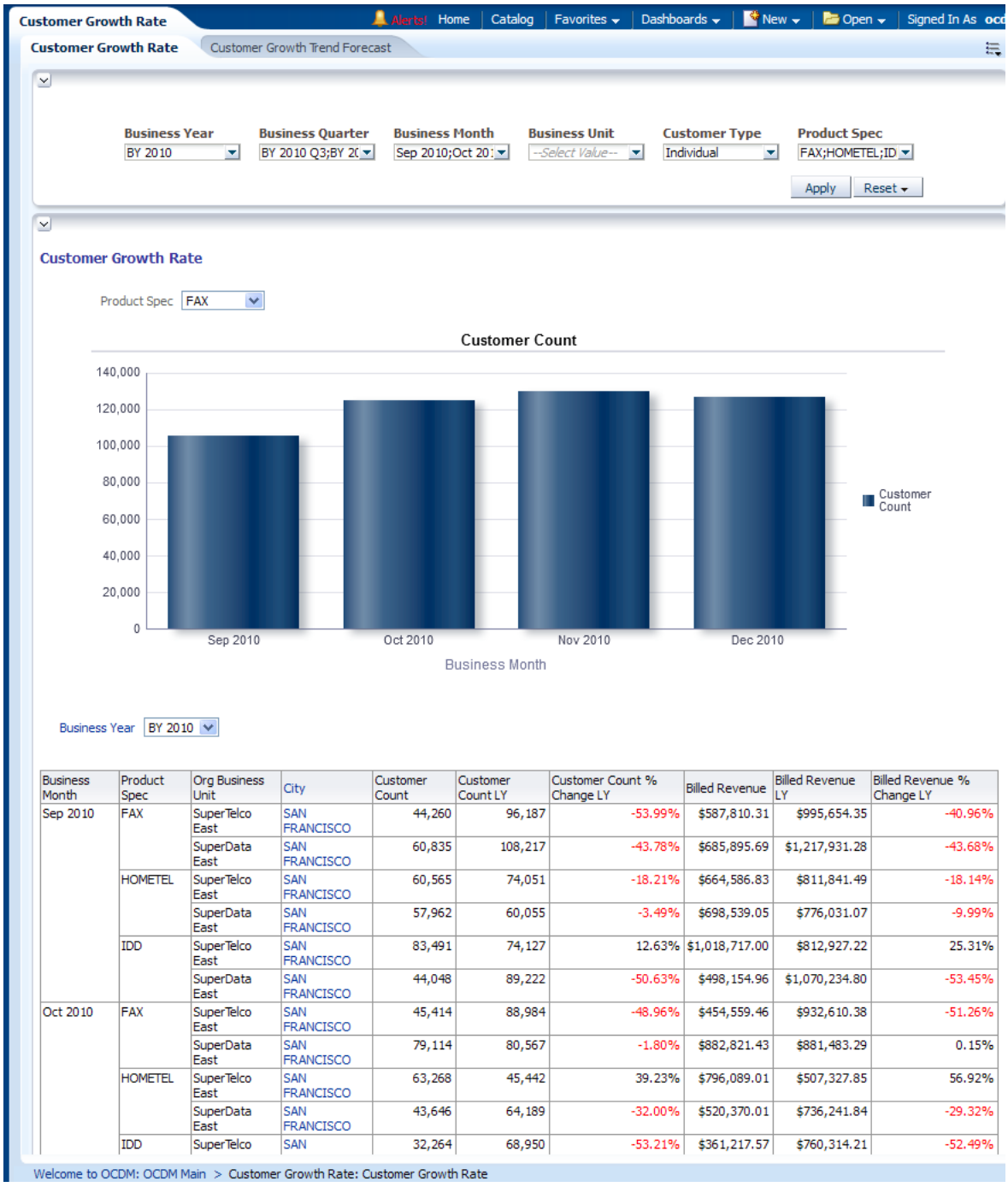
Customer Growth Rate

This report, as shown in Figure 12–3 provides the yearly and monthly customer count and revenue growth rate over products and geographical boundaries

Report dimensions are:

- Business Time
- Organization
- Customer Type
- Product Specification

Figure 12–3 Customer Growth Rate Report



Business Month	Product Spec	Org Business Unit	City	Customer Count	Customer Count LY	Customer Count % Change LY	Billed Revenue	Billed Revenue LY	Billed Revenue % Change LY
Sep 2010	FAX	SuperTelco East	SAN FRANCISCO	44,260	96,187	-53.99%	$587,810.31	$995,654.35	-40.96%
		SuperData East	SAN FRANCISCO	60,835	108,217	-43.78%	$685,895.69	$1,217,931.28	-43.68%
	HOMETEL	SuperTelco East	SAN FRANCISCO	60,565	74,051	-18.21%	$664,586.83	$811,841.49	-18.14%
		SuperData East	SAN FRANCISCO	57,962	60,055	-3.49%	$698,539.05	$776,031.07	-9.99%
	IDD	SuperTelco East	SAN FRANCISCO	83,491	74,127	12.63%	$1,018,717.00	$812,927.22	25.31%
		SuperData East	SAN FRANCISCO	44,048	89,222	-50.63%	$498,154.96	$1,070,234.80	-53.45%
Oct 2010	FAX	SuperTelco East	SAN FRANCISCO	45,414	88,984	-48.96%	$454,559.46	$932,610.38	-51.26%
		SuperData East	SAN FRANCISCO	79,114	80,567	-1.80%	$882,821.43	$881,483.29	0.15%
	HOMETEL	SuperTelco East	SAN FRANCISCO	63,268	45,442	39.23%	$796,089.01	$507,327.85	56.92%
		SuperData East	SAN FRANCISCO	43,646	64,189	-32.00%	$520,370.01	$736,241.84	-29.32%
	IDD	SuperTelco	SAN	32,264	68,950	-53.21%	$361,217.57	$760,314.21	-52.49%

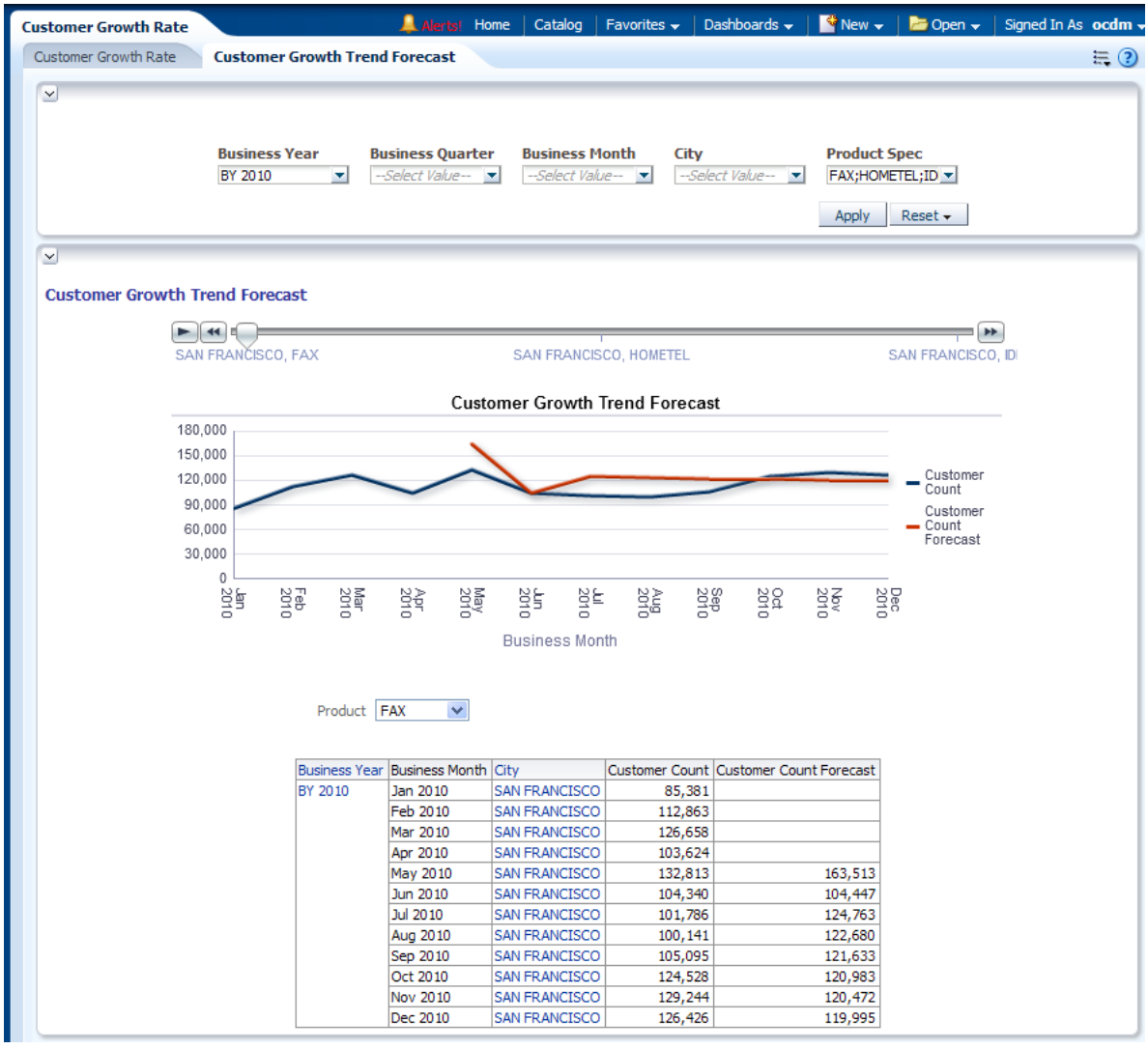
Customer Growth Trend Forecast

This report as shown in Figure 12–4 provides the month level number of customers for organization, products, and geographical boundaries. The future number of customers forecast for the next six months, or twelve months, can be forecast by Oracle OLAP forecast settings.

Report dimensions are:

- Business Time
- Product Specification
- Geography

Figure 12–4 Customer Growth Trend Forecast Report



Business Year	Business Month	City	Customer Count	Customer Count Forecast
BY 2010	Jan 2010	SAN FRANCISCO	85,381	
	Feb 2010	SAN FRANCISCO	112,863	
	Mar 2010	SAN FRANCISCO	126,658	
	Apr 2010	SAN FRANCISCO	103,624	
	May 2010	SAN FRANCISCO	132,813	163,513
	Jun 2010	SAN FRANCISCO	104,340	104,447
	Jul 2010	SAN FRANCISCO	101,786	124,763
	Aug 2010	SAN FRANCISCO	100,141	122,680
	Sep 2010	SAN FRANCISCO	105,095	121,633
	Oct 2010	SAN FRANCISCO	124,528	120,983
	Nov 2010	SAN FRANCISCO	129,244	120,472
	Dec 2010	SAN FRANCISCO	126,426	119,995

Customer Segmentation

This area includes the reports: Customer Segments, Customer Segmentation Details, Churn by Customer Segments, and Churn Predict by Customer Segment.

Customer Segments

This report, as shown in Figure 12–5 shows customer segments.

This report displays the customer segmentation model result. The customer segmentation model groups customers into ten segments according to how similar they are to each other. The similarity is calculated based on customer demographic value (education, income, and so on), usage pattern and list of telecom products they subscribe to (customer subscriber history). The grouping rules are derived automatically by K-Means algorithm implemented inside Oracle Database. Business Analysts can look into each segment to further understand the customer group discovered by the algorithm and name each segments.

By default, the summary information about each segment is displayed in the bottom table. For each segment, the Average Contract Value, Avg Debt Value, and Avg monthly revenue (in last 6 months) are displayed. Those three values are depicted in three pie charts above the table respectively, to show the distribution among customer segments.

The prompt "SVM Predict Churner Indicator" can be used to filter the customer. If user select "1", then for each segment, only those customer who were predicted as "churner" by SVM churn model is counted in. Then the number would be less than all customers in the segment.

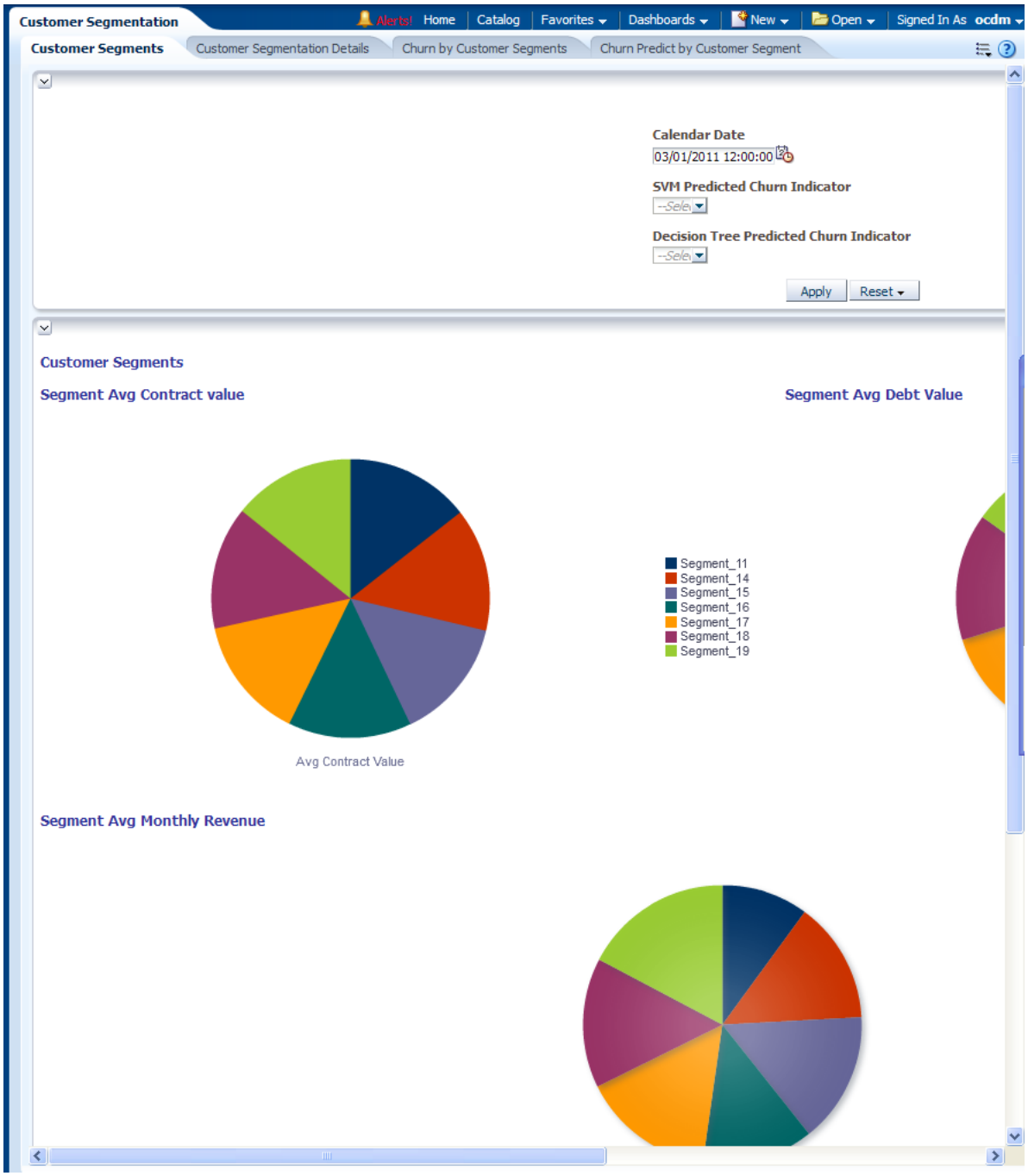
Similarly, "DT Predict Churner Indicator" can filter customers to be only those who were predicted as "churner" by Decision Tree churn model

Note: This groups all the customers, not only churners.

Report dimensions are:

- Customer

Figure 12–5 Customer Segments Report



Customer Segmentation Details

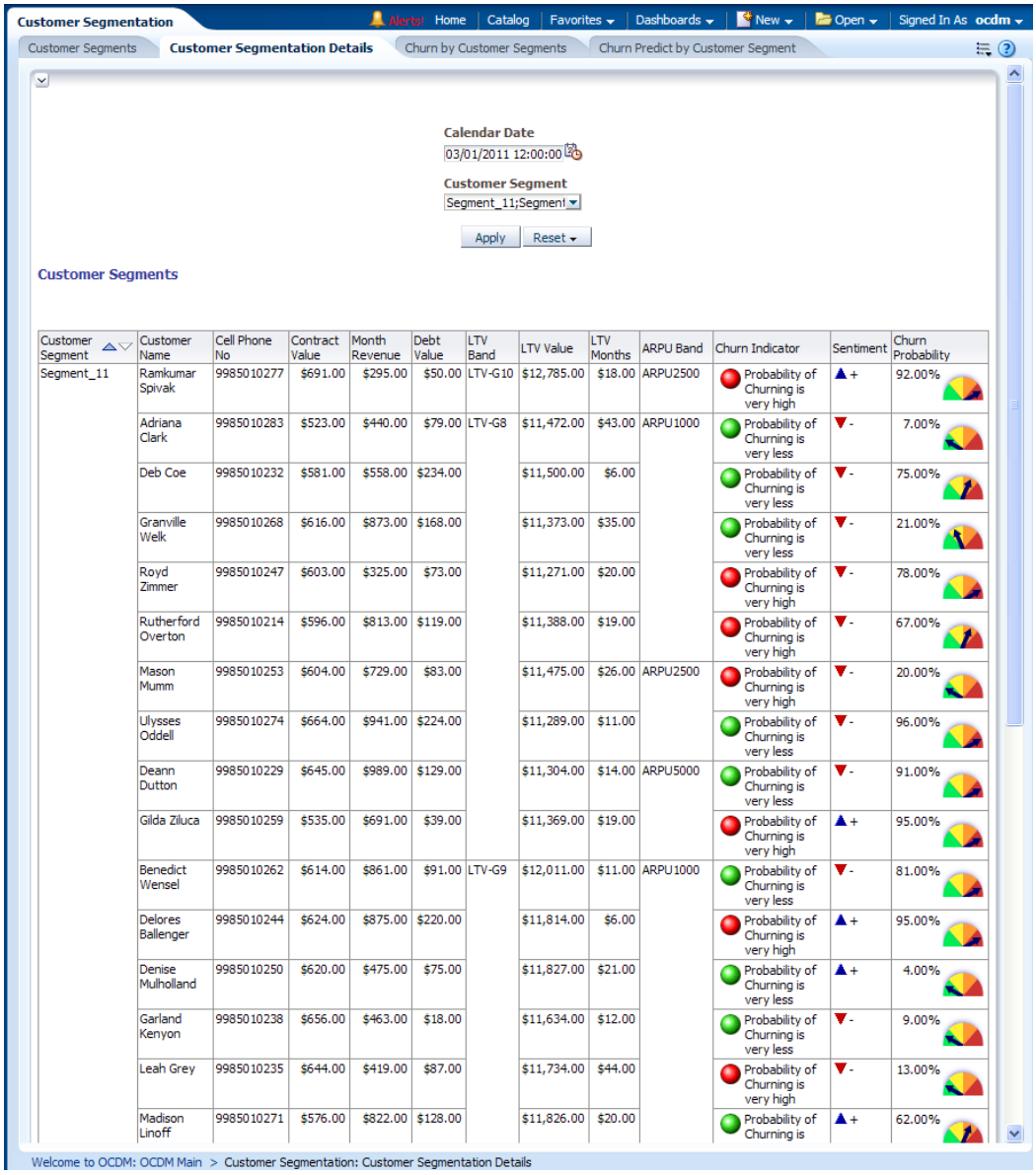
This report, as shown in Figure 12–6 provides the customer segmentation details on basis of certain customer statistical metrics such as contract value, month revenue, debt value and so on.

For the given customer, the report also displays the contract value, month revenue, debt value and so on. In fact, the end user can easily extend this report by adding any relational aggregated information about the customer into this report. For example, number of calls, number of complaints, and so on. They can use BIEE Answers to add those additional measures into the report.

Report dimensions are:

- Customer

Figure 12–6 Customer Segmentation Details Report



Customer Segment	Customer Name	Cell Phone No	Contract Value	Month Revenue	Debt Value	LTV Band	LTV Value	LTV Months	ARPU Band	Churn Indicator	Sentiment	Churn Probability
Segment_11	Ramkumar Spivak	9985010277	$691.00	$295.00	$50.00	LTV-G10	$12,785.00	$18.00	ARPU2500	Probability of Churning is very high	▲+	92.00%
	Adriana Clark	9985010283	$523.00	$440.00	$79.00	LTV-G8	$11,472.00	$43.00	ARPU1000	Probability of Churning is very less	▼-	7.00%
	Deb Coe	9985010232	$581.00	$558.00	$234.00		$11,500.00	$6.00		Probability of Churning is very less	▼-	75.00%
	Granville Welk	9985010268	$616.00	$873.00	$168.00		$11,373.00	$35.00		Probability of Churning is very less	▼-	21.00%
	Royd Zimmer	9985010247	$603.00	$325.00	$73.00		$11,271.00	$20.00		Probability of Churning is very high	▼-	78.00%
	Rutherford Overton	9985010214	$596.00	$813.00	$119.00		$11,388.00	$19.00		Probability of Churning is very high	▼-	67.00%
	Mason Mumm	9985010253	$604.00	$729.00	$83.00		$11,475.00	$26.00	ARPU2500	Probability of Churning is very high	▼-	20.00%
	Ulysses Oddell	9985010274	$664.00	$941.00	$224.00		$11,289.00	$11.00		Probability of Churning is very less	▼-	96.00%
	Deann Dutton	9985010229	$645.00	$989.00	$129.00		$11,304.00	$14.00	ARPU5000	Probability of Churning is very less	▼-	91.00%
	Gilda Ziluca	9985010259	$535.00	$691.00	$39.00		$11,369.00	$19.00		Probability of Churning is very high	▲+	95.00%
	Benedict Wensel	9985010262	$614.00	$861.00	$91.00	LTV-G9	$12,011.00	$11.00	ARPU1000	Probability of Churning is very less	▼-	81.00%
	Delores Ballenger	9985010244	$624.00	$875.00	$220.00		$11,814.00	$6.00		Probability of Churning is very high	▲+	95.00%
	Denise Mulholland	9985010250	$620.00	$475.00	$75.00		$11,827.00	$21.00		Probability of Churning is very less	▲+	4.00%
	Garland Kenyon	9985010238	$656.00	$463.00	$18.00		$11,634.00	$12.00		Probability of Churning is very less	▼-	9.00%
	Leah Grey	9985010235	$644.00	$419.00	$87.00		$11,734.00	$44.00		Probability of Churning is very high	▼-	13.00%
	Madison Linoff	9985010271	$576.00	$822.00	$128.00		$11,826.00	$20.00		Probability of Churning is	▲+	62.00%

Churn by Customer Segments

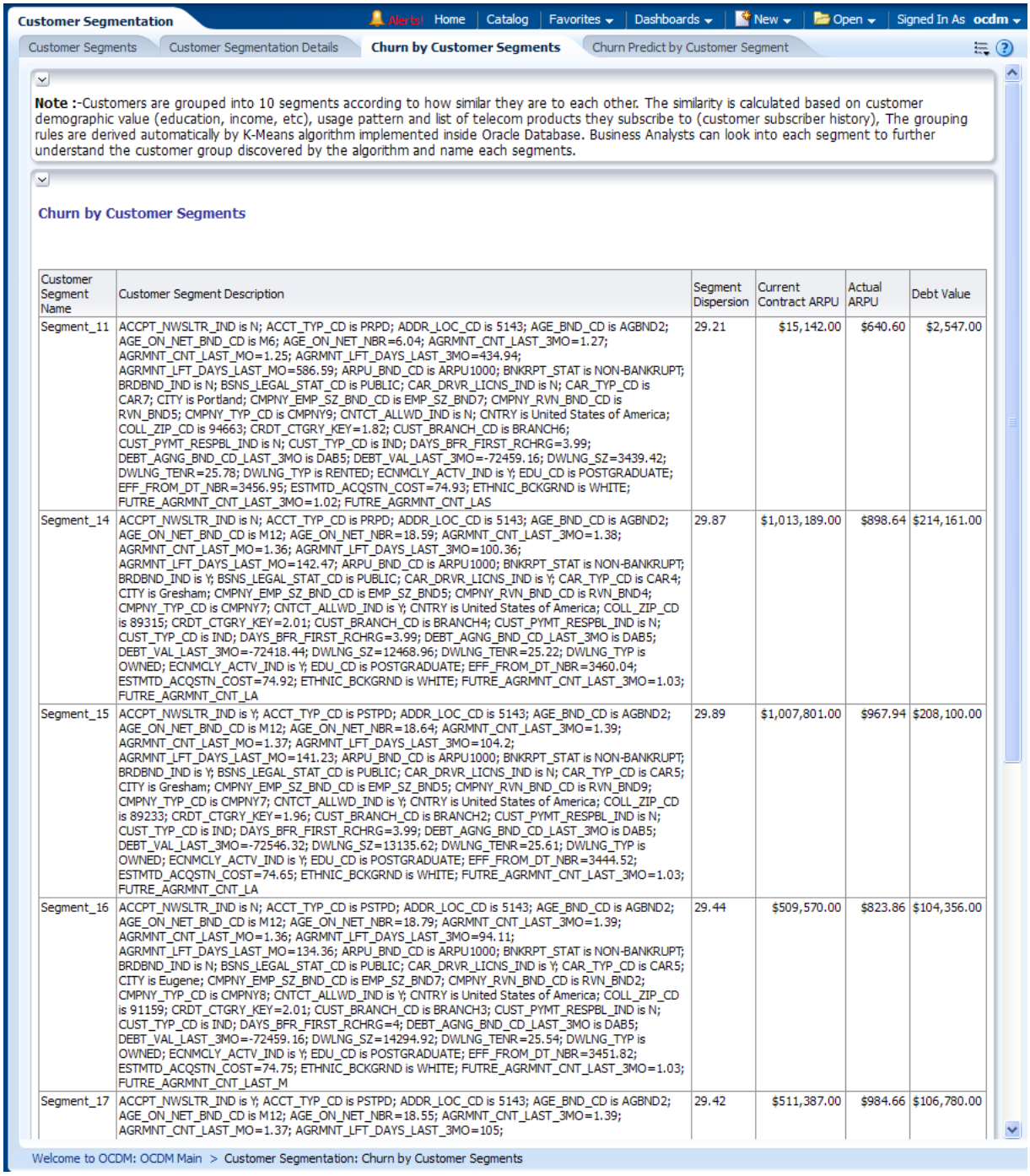
This report, as shown in Figure 12–7 shows customer segments.

This report displays the customer segmentation model result. The customer segmentation model groups customers into ten segments according to how similar they are to each other. The similarity is calculated based on customer demographic value (education, income, and so on), usage pattern and list of telecom products they subscribe to (customer subscriber history). The grouping rules are derived automatically by K-Means algorithm implemented inside Oracle Database. Business Analysts can look into each segment to further understand the customer group discovered by the algorithm and name each segments.

Report dimensions are:

- Customer

Figure 12–7 Customer Segmentation Churn by Customer Segments Report



Customer Segmentation | Alerts! | Home | Catalog | Favorites | Dashboards | New | Open | Signed In As ocdm

Customer Segments | Customer Segmentation Details | Churn by Customer Segments | Churn Predict by Customer Segment

Note :-Customers are grouped into 10 segments according to how similar they are to each other. The similarity is calculated based on customer demographic value (education, income, etc), usage pattern and list of telecom products they subscribe to (customer subscriber history), The grouping rules are derived automatically by K-Means algorithm implemented inside Oracle Database. Business Analysts can look into each segment to further understand the customer group discovered by the algorithm and name each segments.

Churn by Customer Segments

Customer Segment Name	Customer Segment Description	Segment Dispersion	Current Contract ARPU	Actual ARPU	Debt Value
Segment_11	ACCPT_NWSLTR_IND is N; ACCT_TYP_CD is PRPD; ADDR_LOC_CD is 5143; AGE_BND_CD is AGBND2; AGE_ON_NET_BND_CD is M6; AGE_ON_NET_NBR=6.04; AGRMNT_CNT_LAST_3MO=1.27; AGRMNT_CNT_LAST_MO=1.25; AGRMNT_LFT_DAYS_LAST_3MO=434.94; AGRMNT_LFT_DAYS_LAST_MO=586.59; ARPU_BND_CD is ARPU1000; BNKRPT_STAT is NON-BANKRUPT; BRDBND_IND is N; BSNS_LEGAL_STAT_CD is PUBLIC; CAR_DRVR_LICNS_IND is N; CAR_TYP_CD is CAR7; CITY is Portland; CMPNY_EMP_SZ_BND_CD is EMP_SZ_BND7; CMPNY_RVN_BND_CD is RVN_BND5; CMPNY_TYP_CD is CMPNY9; CNTCT_ALLWD_IND is N; CNTRY is United States of America; COLL_ZIP_CD is 94663; CRDT_CTGRY_KEY=1.82; CUST_BRANCH_CD is BRANCH6; CUST_PYMT_RESPBL_IND is N; CUST_TYP_CD is IND; DAYS_BFR_FIRST_RCHRG=3.99; DEBT_AGNG_BND_CD_LAST_3MO is DAB5; DEBT_VAL_LAST_3MO=-72459.16; DWLNG_SZ=3439.42; DWLNG_TENR=25.78; DWLNG_TYP is RENTED; ECNMCLY_ACTV_IND is Y; EDU_CD is POSTGRADUATE; EFF_FROM_DT_NBR=3456.95; ESTMTD_ACQSTN_COST=74.93; ETHNIC_BCKGRND is WHITE; FUTRE_AGRMNT_CNT_LAST_3MO=1.02; FUTRE_AGRMNT_CNT_LAS	29.21	$15,142.00	$640.60	$2,547.00
Segment_14	ACCPT_NWSLTR_IND is N; ACCT_TYP_CD is PRPD; ADDR_LOC_CD is 5143; AGE_BND_CD is AGBND2; AGE_ON_NET_BND_CD is M12; AGE_ON_NET_NBR=18.59; AGRMNT_CNT_LAST_3MO=1.38; AGRMNT_CNT_LAST_MO=1.36; AGRMNT_LFT_DAYS_LAST_3MO=100.36; AGRMNT_LFT_DAYS_LAST_MO=142.47; ARPU_BND_CD is ARPU1000; BNKRPT_STAT is NON-BANKRUPT; BRDBND_IND is Y; BSNS_LEGAL_STAT_CD is PUBLIC; CAR_DRVR_LICNS_IND is Y; CAR_TYP_CD is CAR4; CITY is Gresham; CMPNY_EMP_SZ_BND_CD is EMP_SZ_BND5; CMPNY_RVN_BND_CD is RVN_BND4; CMPNY_TYP_CD is CMPNY7; CNTCT_ALLWD_IND is Y; CNTRY is United States of America; COLL_ZIP_CD is 89315; CRDT_CTGRY_KEY=2.01; CUST_BRANCH_CD is BRANCH4; CUST_PYMT_RESPBL_IND is N; CUST_TYP_CD is IND; DAYS_BFR_FIRST_RCHRG=3.99; DEBT_AGNG_BND_CD_LAST_3MO is DAB5; DEBT_VAL_LAST_3MO=-72418.44; DWLNG_SZ=12468.96; DWLNG_TENR=25.22; DWLNG_TYP is OWNED; ECNMCLY_ACTV_IND is Y; EDU_CD is POSTGRADUATE; EFF_FROM_DT_NBR=3460.04; ESTMTD_ACQSTN_COST=74.92; ETHNIC_BCKGRND is WHITE; FUTRE_AGRMNT_CNT_LAST_3MO=1.03; FUTRE_AGRMNT_CNT_LA	29.87	$1,013,189.00	$898.64	$214,161.00
Segment_15	ACCPT_NWSLTR_IND is Y; ACCT_TYP_CD is PSTPD; ADDR_LOC_CD is 5143; AGE_BND_CD is AGBND2; AGE_ON_NET_BND_CD is M12; AGE_ON_NET_NBR=18.64; AGRMNT_CNT_LAST_3MO=1.39; AGRMNT_CNT_LAST_MO=1.37; AGRMNT_LFT_DAYS_LAST_3MO=104.2; AGRMNT_LFT_DAYS_LAST_MO=141.23; ARPU_BND_CD is ARPU1000; BNKRPT_STAT is NON-BANKRUPT; BRDBND_IND is Y; BSNS_LEGAL_STAT_CD is PUBLIC; CAR_DRVR_LICNS_IND is N; CAR_TYP_CD is CAR5; CITY is Gresham; CMPNY_EMP_SZ_BND_CD is EMP_SZ_BND5; CMPNY_RVN_BND_CD is RVN_BND9; CMPNY_TYP_CD is CMPNY7; CNTCT_ALLWD_IND is Y; CNTRY is United States of America; COLL_ZIP_CD is 89233; CRDT_CTGRY_KEY=1.96; CUST_BRANCH_CD is BRANCH2; CUST_PYMT_RESPBL_IND is N; CUST_TYP_CD is IND; DAYS_BFR_FIRST_RCHRG=3.99; DEBT_AGNG_BND_CD_LAST_3MO is DAB5; DEBT_VAL_LAST_3MO=-72546.32; DWLNG_SZ=13135.62; DWLNG_TENR=25.61; DWLNG_TYP is OWNED; ECNMCLY_ACTV_IND is Y; EDU_CD is POSTGRADUATE; EFF_FROM_DT_NBR=3444.52; ESTMTD_ACQSTN_COST=74.65; ETHNIC_BCKGRND is WHITE; FUTRE_AGRMNT_CNT_LAST_3MO=1.03; FUTRE_AGRMNT_CNT_LA	29.89	$1,007,801.00	$967.94	$208,100.00
Segment_16	ACCPT_NWSLTR_IND is N; ACCT_TYP_CD is PSTPD; ADDR_LOC_CD is 5143; AGE_BND_CD is AGBND2; AGE_ON_NET_BND_CD is M12; AGE_ON_NET_NBR=18.79; AGRMNT_CNT_LAST_3MO=1.39; AGRMNT_CNT_LAST_MO=1.36; AGRMNT_LFT_DAYS_LAST_3MO=94.11; AGRMNT_LFT_DAYS_LAST_MO=134.36; ARPU_BND_CD is ARPU1000; BNKRPT_STAT is NON-BANKRUPT; BRDBND_IND is N; BSNS_LEGAL_STAT_CD is PUBLIC; CAR_DRVR_LICNS_IND is Y; CAR_TYP_CD is CAR5; CITY is Eugene; CMPNY_EMP_SZ_BND_CD is EMP_SZ_BND7; CMPNY_RVN_BND_CD is RVN_BND2; CMPNY_TYP_CD is CMPNY8; CNTCT_ALLWD_IND is Y; CNTRY is United States of America; COLL_ZIP_CD is 91159; CRDT_CTGRY_KEY=2.01; CUST_BRANCH_CD is BRANCH3; CUST_PYMT_RESPBL_IND is N; CUST_TYP_CD is IND; DAYS_BFR_FIRST_RCHRG=4; DEBT_AGNG_BND_CD_LAST_3MO is DAB5; DEBT_VAL_LAST_3MO=-72459.16; DWLNG_SZ=14294.92; DWLNG_TENR=25.54; DWLNG_TYP is OWNED; ECNMCLY_ACTV_IND is Y; EDU_CD is POSTGRADUATE; EFF_FROM_DT_NBR=3451.82; ESTMTD_ACQSTN_COST=74.75; ETHNIC_BCKGRND is WHITE; FUTRE_AGRMNT_CNT_LAST_3MO=1.03; FUTRE_AGRMNT_CNT_LAST_M	29.44	$509,570.00	$823.86	$104,356.00
Segment_17	ACCPT_NWSLTR_IND is Y; ACCT_TYP_CD is PSTPD; ADDR_LOC_CD is 5143; AGE_BND_CD is AGBND2; AGE_ON_NET_BND_CD is M12; AGE_ON_NET_NBR=18.55; AGRMNT_CNT_LAST_3MO=1.39; AGRMNT_CNT_LAST_MO=1.37; AGRMNT_LFT_DAYS_LAST_3MO=105;	29.42	$511,387.00	$984.66	$106,780.00

Welcome to OCDM: OCDM Main > Customer Segmentation: Churn by Customer Segments

Churn Predict by Customer Segment

This report, as shown in Figure 12–8 shows customer segments.

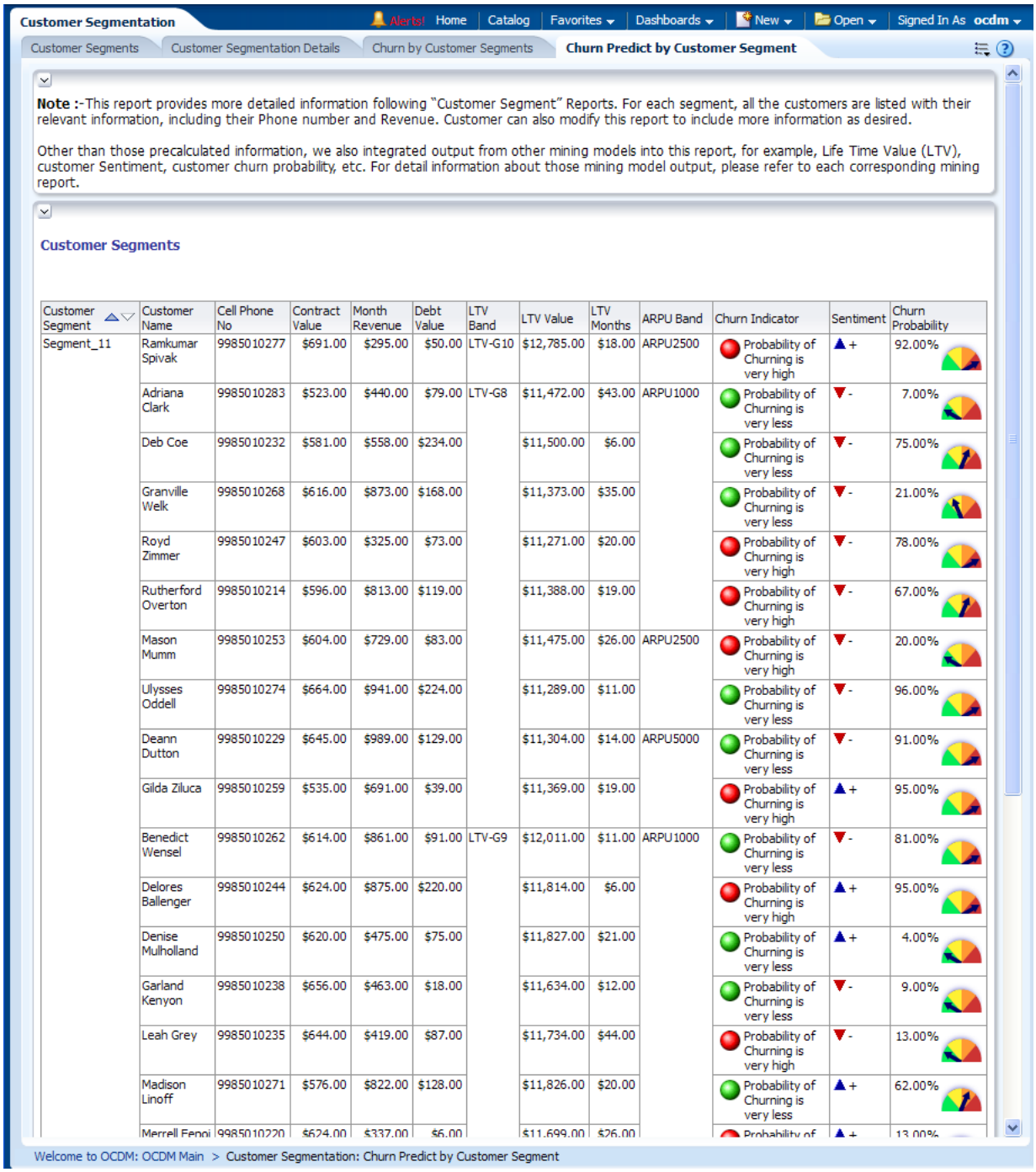
This report displays the customer segmentation model result. The customer segmentation model groups customers into ten segments according to how similar

they are to each other. The similarity is calculated based on customer demographic value (education, income, and so on), usage pattern and list of telecom products they subscribe to (customer subscriber history). The grouping rules are derived automatically by K-Means algorithm implemented inside Oracle Database. Business Analysts can look into each segment to further understand the customer group discovered by the algorithm and name each segments.

Report dimensions are:

- Customer

Figure 12–8 Churn Predict by Customer Segment Report



Customer Segment	Customer Name	Cell Phone No	Contract Value	Month Revenue	Debt Value	LTV Band	LTV Value	LTV Months	ARPU Band	Churn Indicator	Sentiment	Churn Probability
Segment_11	Ramkumar Spivak	9985010277	$691.00	$295.00	$50.00	LTV-G10	$12,785.00	$18.00	ARPU2500	Probability of Churning is very high	+	92.00%
	Adriana Clark	9985010283	$523.00	$440.00	$79.00	LTV-G8	$11,472.00	$43.00	ARPU1000	Probability of Churning is very less	-	7.00%
	Deb Coe	9985010232	$581.00	$558.00	$234.00		$11,500.00	$6.00		Probability of Churning is very less	-	75.00%
	Granville Welk	9985010268	$616.00	$873.00	$168.00		$11,373.00	$35.00		Probability of Churning is very less	-	21.00%
	Royd Zimmer	9985010247	$603.00	$325.00	$73.00		$11,271.00	$20.00		Probability of Churning is very high	-	78.00%
	Rutherford Overton	9985010214	$596.00	$813.00	$119.00		$11,388.00	$19.00		Probability of Churning is very high	-	67.00%
	Mason Mumm	9985010253	$604.00	$729.00	$83.00		$11,475.00	$26.00	ARPU2500	Probability of Churning is very high	-	20.00%
	Ulysses Oddell	9985010274	$664.00	$941.00	$224.00		$11,289.00	$11.00		Probability of Churning is very less	-	96.00%
	Deann Dutton	9985010229	$645.00	$989.00	$129.00		$11,304.00	$14.00	ARPU5000	Probability of Churning is very less	-	91.00%
	Gilda Ziluca	9985010259	$535.00	$691.00	$39.00		$11,369.00	$19.00		Probability of Churning is very high	+	95.00%
	Benedict Wensel	9985010262	$614.00	$861.00	$91.00	LTV-G9	$12,011.00	$11.00	ARPU1000	Probability of Churning is very less	-	81.00%
	Delores Ballenger	9985010244	$624.00	$875.00	$220.00		$11,814.00	$6.00		Probability of Churning is very high	+	95.00%
	Denise Mulholland	9985010250	$620.00	$475.00	$75.00		$11,827.00	$21.00		Probability of Churning is very less	+	4.00%
	Garland Kenyon	9985010238	$656.00	$463.00	$18.00		$11,634.00	$12.00		Probability of Churning is very less	-	9.00%
	Leah Grey	9985010235	$644.00	$419.00	$87.00		$11,734.00	$44.00		Probability of Churning is very high	-	13.00%
	Madison Linoff	9985010271	$576.00	$822.00	$128.00		$11,826.00	$20.00		Probability of Churning is very less	+	62.00%
	Merrell Fenoi	9985010220	$624.00	$337.00	$6.00		$11,699.00	$26.00		Probability of	+	13.00%

Customer Life Time Value

This area includes the reports: Customer Life Time Value, Customer by Life Time Value Band, Customer by Life Time Span Category, and Customer Life Time Span Detail.

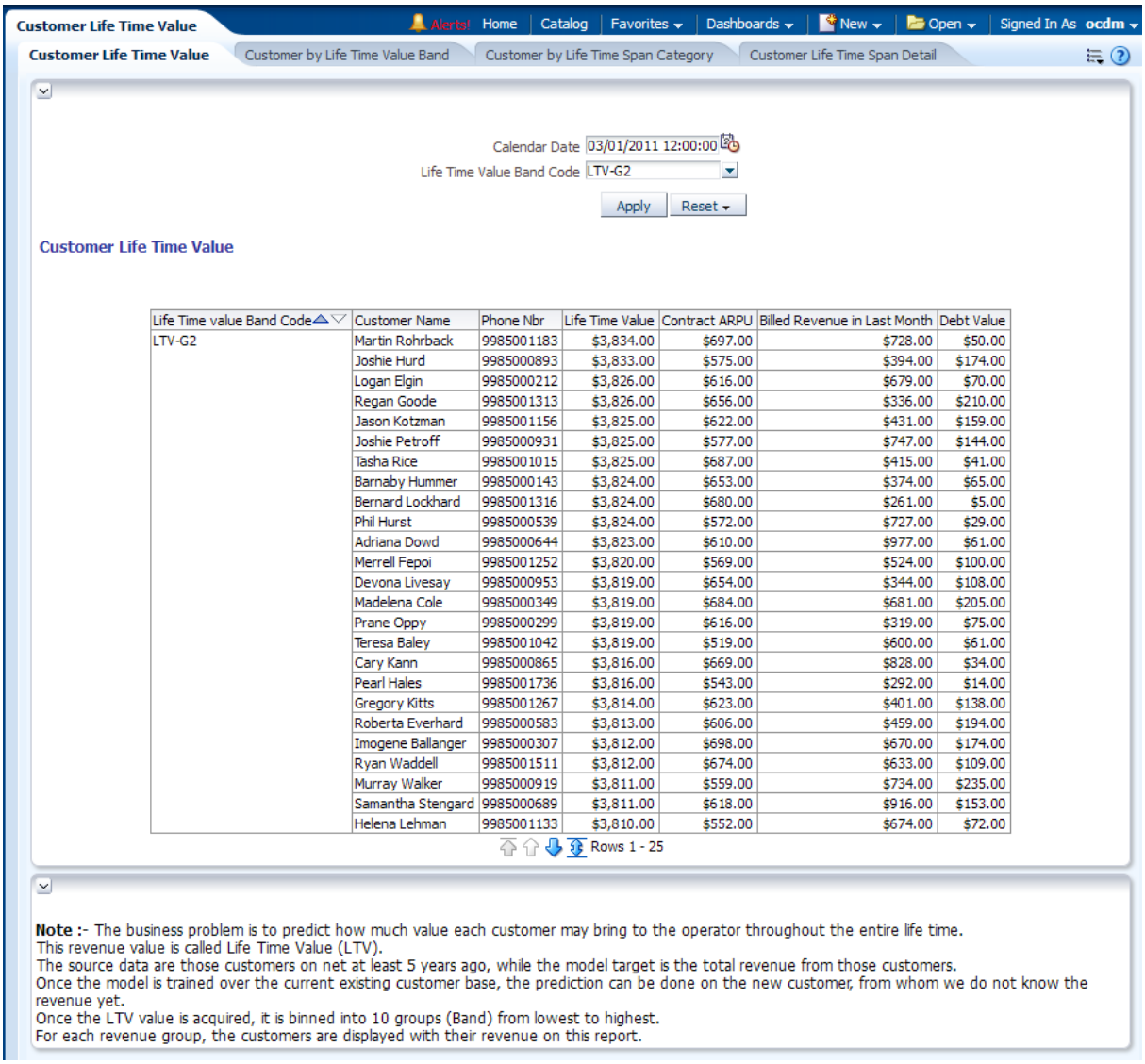
Customer Life Time Value

This report as shown in Figure 12–9 provides the predicted Life Time Value (LTV) for all customers grouped by LTV Band Code. It also shows some additional aggregated information about the customer.

Report dimensions are:

- Customer
- Customer Mining

Figure 12–9 Customer Life Time Value Report



Life Time value Band Code	Customer Name	Phone Nbr	Life Time Value	Contract ARPU	Billed Revenue in Last Month	Debt Value
LTV-G2	Martin Rohrback	9985001183	$3,834.00	$697.00	$728.00	$50.00
	Joshie Hurd	9985000893	$3,833.00	$575.00	$394.00	$174.00
	Logan Elgin	9985000212	$3,826.00	$616.00	$679.00	$70.00
	Regan Goode	9985001313	$3,826.00	$656.00	$336.00	$210.00
	Jason Kotzman	9985001156	$3,825.00	$622.00	$431.00	$159.00
	Joshie Petroff	9985000931	$3,825.00	$577.00	$747.00	$144.00
	Tasha Rice	9985001015	$3,825.00	$687.00	$415.00	$41.00
	Barnaby Hummer	9985000143	$3,824.00	$653.00	$374.00	$65.00
	Bernard Lockhard	9985001316	$3,824.00	$680.00	$261.00	$5.00
	Phil Hurst	9985000539	$3,824.00	$572.00	$727.00	$29.00
	Adriana Dowd	9985000644	$3,823.00	$610.00	$977.00	$61.00
	Merrell Fepoi	9985001252	$3,820.00	$569.00	$524.00	$100.00
	Devona Livesay	9985000953	$3,819.00	$654.00	$344.00	$108.00
	Madelena Cole	9985000349	$3,819.00	$684.00	$681.00	$205.00
	Prane Oppy	9985000299	$3,819.00	$616.00	$319.00	$75.00
	Teresa Baley	9985001042	$3,819.00	$519.00	$600.00	$61.00
	Cary Kann	9985000865	$3,816.00	$669.00	$828.00	$34.00
	Pearl Hales	9985001736	$3,816.00	$543.00	$292.00	$14.00
	Gregory Kitts	9985001267	$3,814.00	$623.00	$401.00	$138.00
	Roberta Everhard	9985000583	$3,813.00	$606.00	$459.00	$194.00
	Imogene Ballanger	9985000307	$3,812.00	$698.00	$670.00	$174.00
	Ryan Waddell	9985001511	$3,812.00	$674.00	$633.00	$109.00
	Murray Walker	9985000919	$3,811.00	$559.00	$734.00	$235.00
	Samantha Stengard	9985000689	$3,811.00	$618.00	$916.00	$153.00
	Helena Lehman	9985001133	$3,810.00	$552.00	$674.00	$72.00

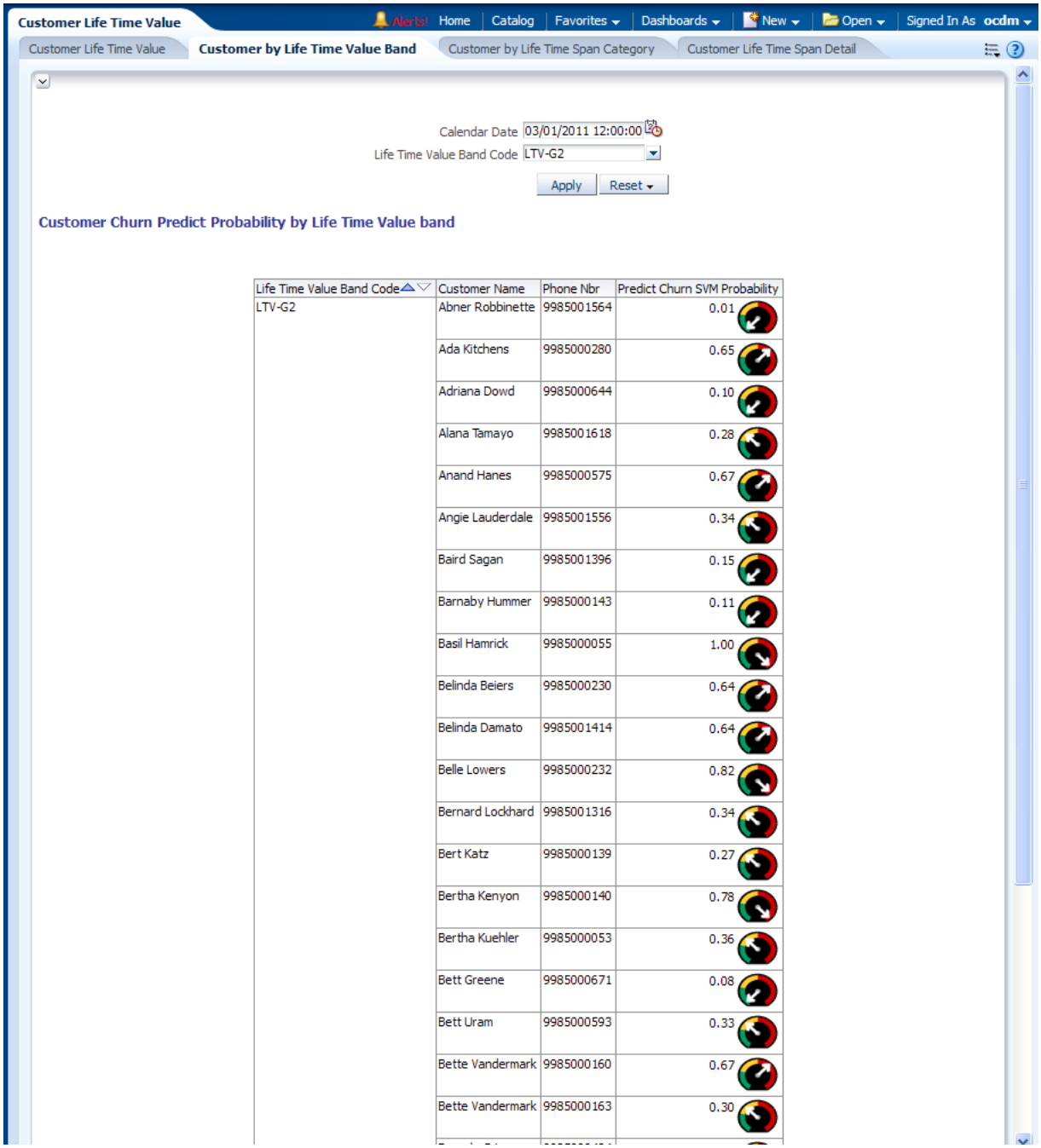
Customer by Life Time Value Band

This report, as shown in Figure 12–10 provides the churn prediction result for the customers belonging to a certain Life time Value Band (that is, the customers likely to be with the service provider compared with the customers that already left the service provider.)

Report dimensions are:

- Customer
- Customer Mining

Figure 12–10 Customer by Life Time Value Band Report



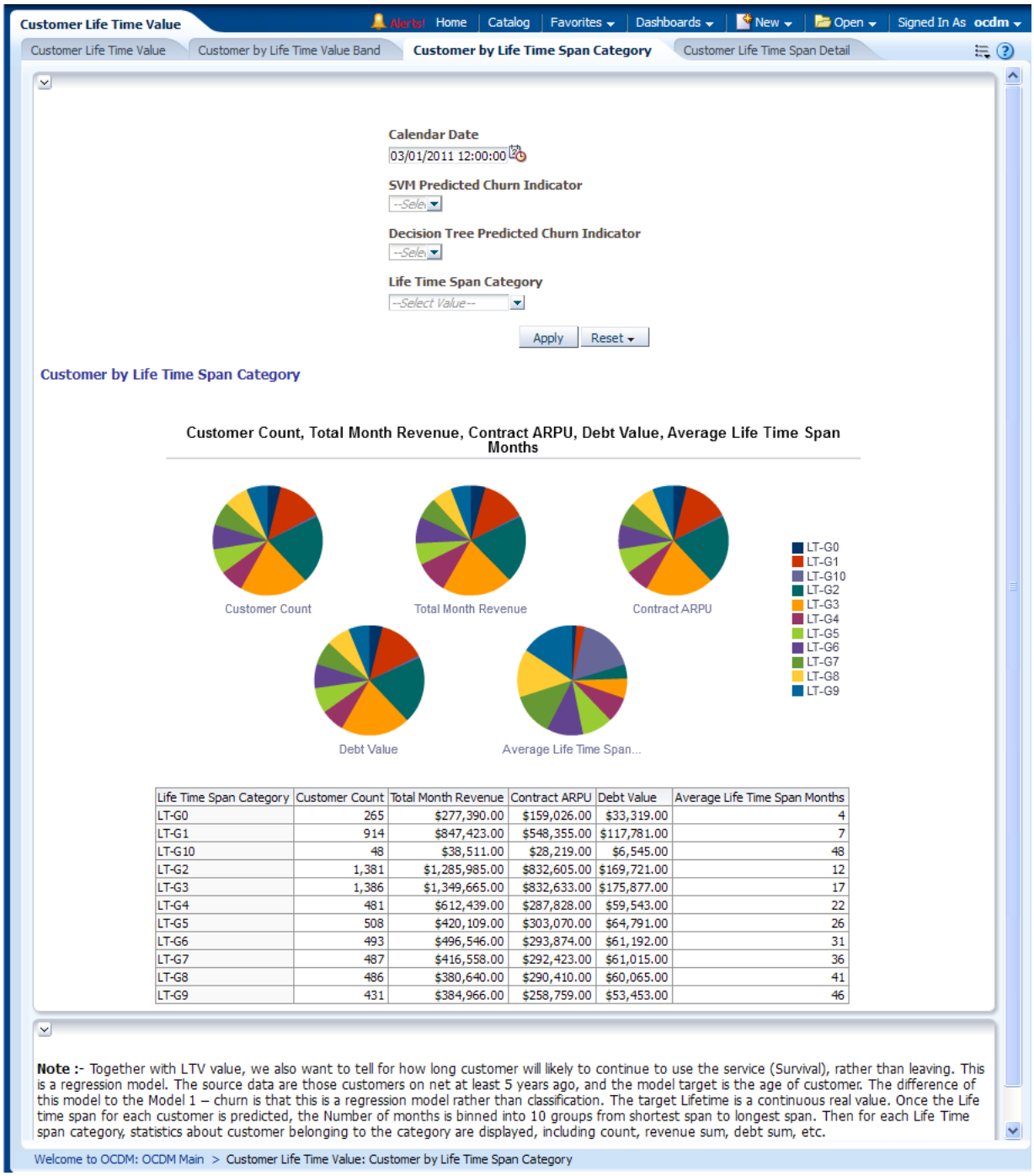
Customer by Life Time Span Category

This report, as shown in Figure 12–11 provides the customer life time span with the service provider on the basis of certain mining metrics such as average life time span months, total month revenue, contract Average Revenue Per User (ARPU) and so on. The Life time span value is measured by Months, therefore, a value of "22" in "Avg Life Time Span Months" means the customer is very likely to use the services for at least 22 months. The customers are binned into Life Time Span Category according to the value of Life time span.

Report dimensions are:

- Customer
- Customer Mining

Figure 12–11 Customer by Life Time Span Category Report



Life Time Span Category	Customer Count	Total Month Revenue	Contract ARPU	Debt Value	Average Life Time Span Months
LT-G0	265	$277,390.00	$159,026.00	$33,319.00	4
LT-G1	914	$847,423.00	$548,355.00	$117,781.00	7
LT-G10	48	$38,511.00	$28,219.00	$6,545.00	48
LT-G2	1,381	$1,285,985.00	$832,605.00	$169,721.00	12
LT-G3	1,386	$1,349,665.00	$832,633.00	$175,877.00	17
LT-G4	481	$612,439.00	$287,828.00	$59,543.00	22
LT-G5	508	$420,109.00	$303,070.00	$64,791.00	26
LT-G6	493	$496,546.00	$293,874.00	$61,192.00	31
LT-G7	487	$416,558.00	$292,423.00	$61,015.00	36
LT-G8	486	$380,640.00	$290,410.00	$60,065.00	41
LT-G9	431	$384,966.00	$258,759.00	$53,453.00	46

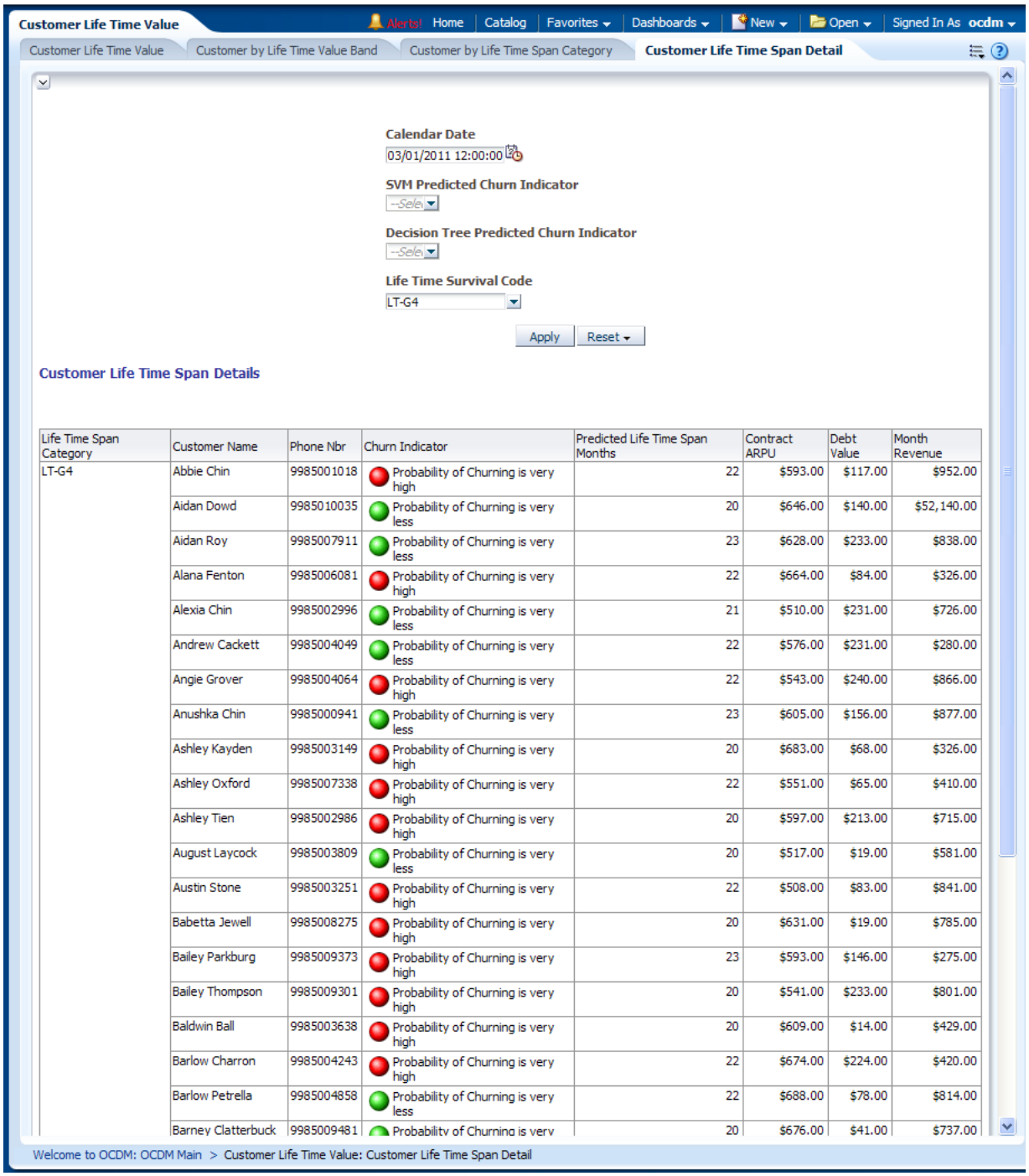
Customer Life Time Span Detail

This report, as shown in Figure 12–12 provides more information about the customers in each life time span category.

Report dimensions are:

- Customer
- Customer Mining

Figure 12–12 Customer Life Time Span Detail Report



Life Time Span Category	Customer Name	Phone Nbr	Churn Indicator	Predicted Life Time Span Months	Contract ARPU	Debt Value	Month Revenue
LT-G4	Abbie Chin	9985001018	Probability of Churning is very high	22	$593.00	$117.00	$952.00
	Aidan Dowd	9985010035	Probability of Churning is very less	20	$646.00	$140.00	$52,140.00
	Aidan Roy	9985007911	Probability of Churning is very less	23	$628.00	$233.00	$838.00
	Alana Fenton	9985006081	Probability of Churning is very high	22	$664.00	$84.00	$326.00
	Alexia Chin	9985002996	Probability of Churning is very less	21	$510.00	$231.00	$726.00
	Andrew Cackett	9985004049	Probability of Churning is very less	22	$576.00	$231.00	$280.00
	Angie Grover	9985004064	Probability of Churning is very high	22	$543.00	$240.00	$866.00
	Anushka Chin	9985000941	Probability of Churning is very less	23	$605.00	$156.00	$877.00
	Ashley Kayden	9985003149	Probability of Churning is very high	20	$683.00	$68.00	$326.00
	Ashley Oxford	9985007338	Probability of Churning is very high	22	$551.00	$65.00	$410.00
	Ashley Tien	9985002986	Probability of Churning is very high	20	$597.00	$213.00	$715.00
	August Laycock	9985003809	Probability of Churning is very less	20	$517.00	$19.00	$581.00
	Austin Stone	9985003251	Probability of Churning is very high	22	$508.00	$83.00	$841.00
	Babetta Jewell	9985008275	Probability of Churning is very high	20	$631.00	$19.00	$785.00
	Bailey Parkburg	9985009373	Probability of Churning is very high	23	$593.00	$146.00	$275.00
	Bailey Thompson	9985009301	Probability of Churning is very high	20	$541.00	$233.00	$801.00
	Baldwin Ball	9985003638	Probability of Churning is very high	20	$609.00	$14.00	$429.00
	Barlow Charron	9985004243	Probability of Churning is very high	22	$674.00	$224.00	$420.00
	Barlow Petrella	9985004858	Probability of Churning is very less	22	$688.00	$78.00	$814.00
	Barney Clatterbuck	9985009481	Probability of Churning is very	20	$676.00	$41.00	$737.00

Customer Churn Analysis

This area includes the reports: Customer Churn Rate, Customer Churn Statistics, Churn Reason Distribution, Churn Outlier by Site (Building), Churn Outlier by Sales Agent, and Complain Rate Outlier by Business Unit.

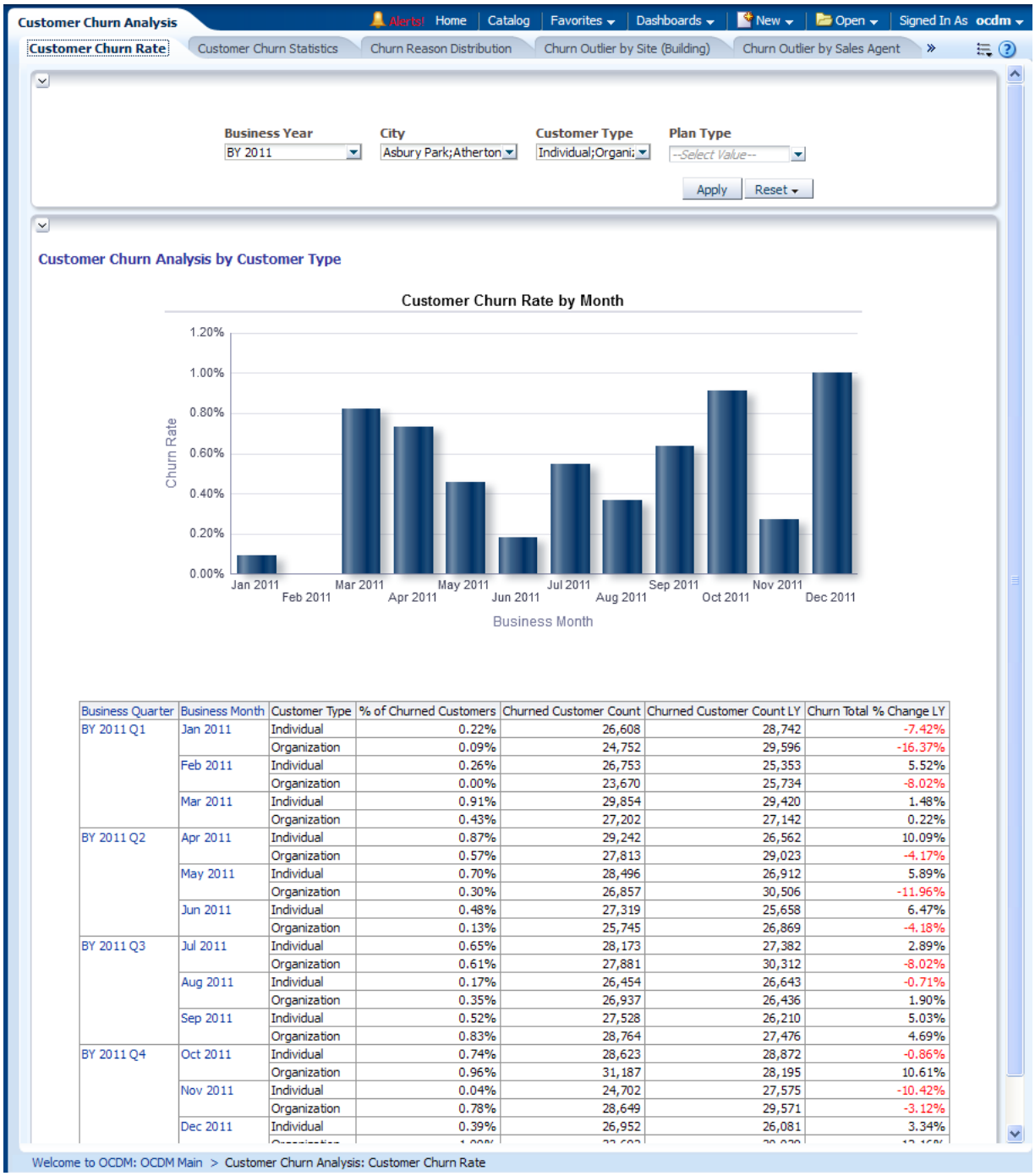
Customer Churn Rate

This report, as shown in Figure 12–13 provides year-level churn rate information of an organization based on Customer type. It also shows the Last year information for the user to see differences.

Report dimensions are:

- Organization
- Business Time
- Customer

Figure 12–13 Customer Churn Rate Report



Business Quarter	Business Month	Customer Type	% of Churned Customers	Churned Customer Count	Churned Customer Count LY	Churn Total % Change LY
BY 2011 Q1	Jan 2011	Individual	0.22%	26,608	28,742	-7.42%
		Organization	0.09%	24,752	29,596	-16.37%
	Feb 2011	Individual	0.26%	26,753	25,353	5.52%
		Organization	0.00%	23,670	25,734	-8.02%
	Mar 2011	Individual	0.91%	29,854	29,420	1.48%
		Organization	0.43%	27,202	27,142	0.22%
BY 2011 Q2	Apr 2011	Individual	0.87%	29,242	26,562	10.09%
		Organization	0.57%	27,813	29,023	-4.17%
	May 2011	Individual	0.70%	28,496	26,912	5.89%
		Organization	0.30%	26,857	30,506	-11.96%
	Jun 2011	Individual	0.48%	27,319	25,658	6.47%
		Organization	0.13%	25,745	26,869	-4.18%
BY 2011 Q3	Jul 2011	Individual	0.65%	28,173	27,382	2.89%
		Organization	0.61%	27,881	30,312	-8.02%
	Aug 2011	Individual	0.17%	26,454	26,643	-0.71%
		Organization	0.35%	26,937	26,436	1.90%
	Sep 2011	Individual	0.52%	27,528	26,210	5.03%
		Organization	0.83%	28,764	27,476	4.69%
BY 2011 Q4	Oct 2011	Individual	0.74%	28,623	28,872	-0.86%
		Organization	0.96%	31,187	28,195	10.61%
	Nov 2011	Individual	0.04%	24,702	27,575	-10.42%
		Organization	0.78%	28,649	29,571	-3.12%
	Dec 2011	Individual	0.39%	26,952	26,081	3.34%

Customer Churn Statistics

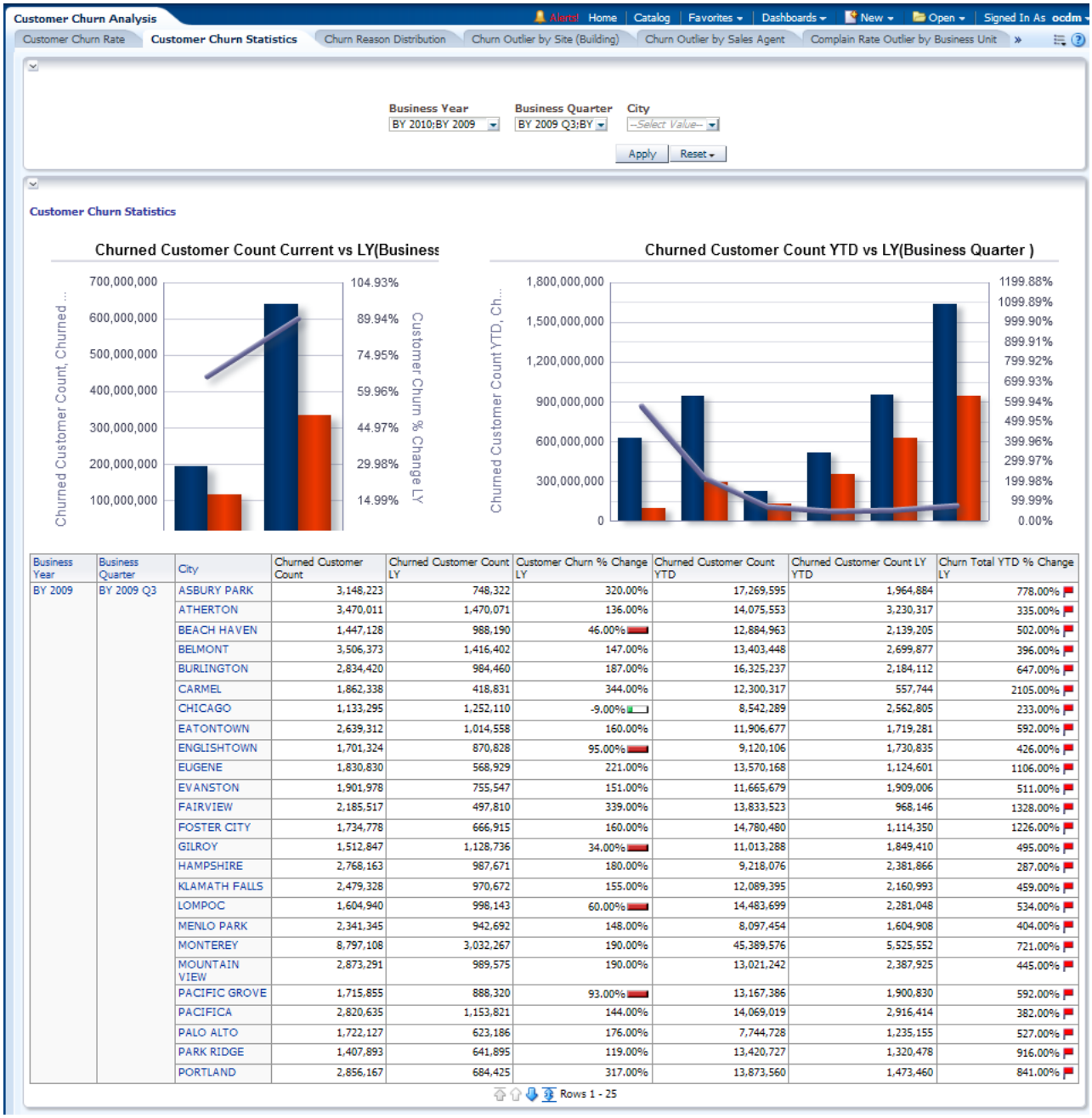
This report, as shown in Figure 12–14 provides year-level subscription performance based on churn statistics relating to a Customer, such as high churn rate analysis for a subscription, and so on. Oracle Communications Data Model provides certain operational measures such as forecasting, prediction, and so on, to over come this problem This data can be analyzed with LY and YTD data.

Report dimensions are:

- Organization

- Business Time
- Customer

Figure 12–14 Customer Churn Statistics Report



Business Year	Business Quarter	City	Churned Customer Count	Churned Customer Count LY	Customer Churn % Change LY	Churned Customer Count YTD	Churned Customer Count LY YTD	Churn Total YTD % Change LY
BY 2009	BY 2009 Q3	ASBURY PARK	3,148,223	748,322	320.00%	17,269,595	1,964,884	778.00%
		ATHERTON	3,470,011	1,470,071	136.00%	14,075,553	3,230,317	335.00%
		BEACH HAVEN	1,447,128	988,190	46.00%	12,884,963	2,139,205	502.00%
		BELMONT	3,506,373	1,416,402	147.00%	13,403,448	2,699,877	396.00%
		BURLINGTON	2,834,420	984,460	187.00%	16,325,237	2,184,112	647.00%
		CARMEL	1,862,338	418,831	344.00%	12,300,317	557,744	2105.00%
		CHICAGO	1,133,295	1,252,110	-9.00%	8,542,289	2,562,805	233.00%
		EATONTOWN	2,639,312	1,014,558	160.00%	11,906,677	1,719,281	592.00%
		ENGLISHTOWN	1,701,324	870,828	95.00%	9,120,106	1,730,835	426.00%
		EUGENE	1,830,830	568,929	221.00%	13,570,168	1,124,601	1106.00%
		EVANSTON	1,901,978	755,547	151.00%	11,665,679	1,909,006	511.00%
		FAIRVIEW	2,185,517	497,810	339.00%	13,833,523	968,146	1328.00%
		FOSTER CITY	1,734,778	666,915	160.00%	14,780,480	1,114,350	1226.00%
		GILROY	1,512,847	1,128,736	34.00%	11,013,288	1,849,410	495.00%
		HAMPSHIRE	2,768,163	987,671	180.00%	9,218,076	2,381,866	287.00%
		KLAMATH FALLS	2,479,328	970,672	155.00%	12,089,395	2,160,993	459.00%
		LOMPOC	1,604,940	998,143	60.00%	14,483,699	2,281,048	534.00%
		MENLO PARK	2,341,345	942,692	148.00%	8,097,454	1,604,908	404.00%
		MONTEREY	8,797,108	3,032,267	190.00%	45,389,576	5,525,552	721.00%
		MOUNTAIN VIEW	2,873,291	989,575	190.00%	13,021,242	2,387,925	445.00%
		PACIFIC GROVE	1,715,855	888,320	93.00%	13,167,386	1,900,830	592.00%
		PACIFICA	2,820,635	1,153,821	144.00%	14,069,019	2,916,414	382.00%
		PALO ALTO	1,722,127	623,186	176.00%	7,744,728	1,235,155	527.00%
		PARK RIDGE	1,407,893	641,895	119.00%	13,420,727	1,320,478	916.00%
		PORTLAND	2,856,167	684,425	317.00%	13,873,560	1,473,460	841.00%

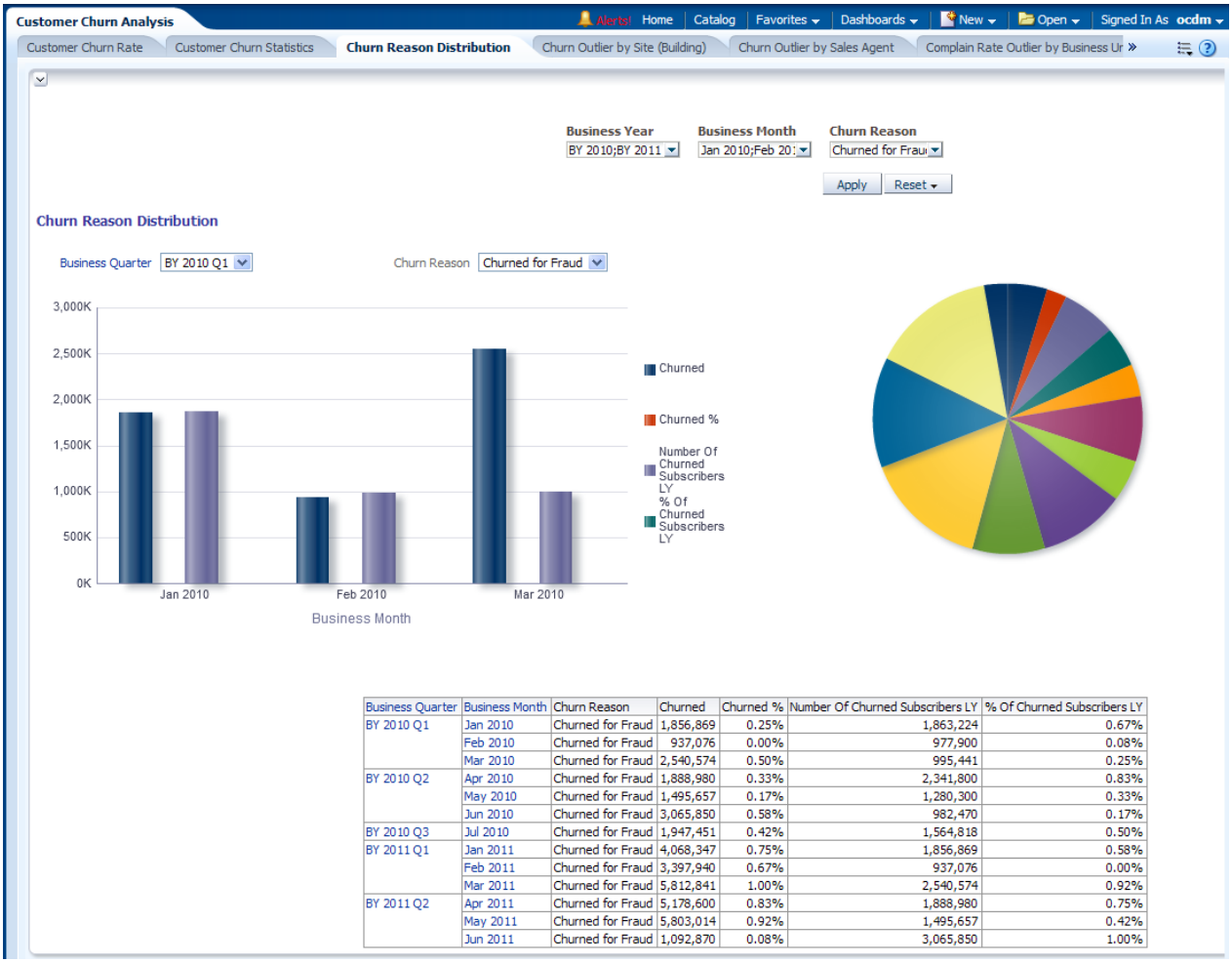
Churn Reason Distribution

This report as shown in Figure 12–15 identifies the year level top reasons that lead the customers to move out of the service providers. It also gives the flexibility to compare the same with last year churn information. Thus, it gives the service providers a way to analyze the churn situation according to customer stated churn reasons.

Report dimensions are:

- Business Time
- Churn Reason

Figure 12–15 Churn Reason Distribution Report



Business Quarter	Business Month	Churn Reason	Churned	Churned %	Number Of Churned Subscribers LY	% Of Churned Subscribers LY
BY 2010 Q1	Jan 2010	Churned for Fraud	1,856,869	0.25%	1,863,224	0.67%
	Feb 2010	Churned for Fraud	937,076	0.00%	977,900	0.08%
	Mar 2010	Churned for Fraud	2,540,574	0.50%	995,441	0.25%
BY 2010 Q2	Apr 2010	Churned for Fraud	1,888,980	0.33%	2,341,800	0.83%
	May 2010	Churned for Fraud	1,495,657	0.17%	1,280,300	0.33%
	Jun 2010	Churned for Fraud	3,065,850	0.58%	982,470	0.17%
BY 2010 Q3	Jul 2010	Churned for Fraud	1,947,451	0.42%	1,564,818	0.50%
BY 2011 Q1	Jan 2011	Churned for Fraud	4,068,347	0.75%	1,856,869	0.58%
	Feb 2011	Churned for Fraud	3,397,940	0.67%	937,076	0.00%
	Mar 2011	Churned for Fraud	5,812,841	1.00%	2,540,574	0.92%
BY 2011 Q2	Apr 2011	Churned for Fraud	5,178,600	0.83%	1,888,980	0.75%
	May 2011	Churned for Fraud	5,803,014	0.92%	1,495,657	0.42%
	Jun 2011	Churned for Fraud	1,092,870	0.08%	3,065,850	1.00%

Churn Outlier by Site (Building)

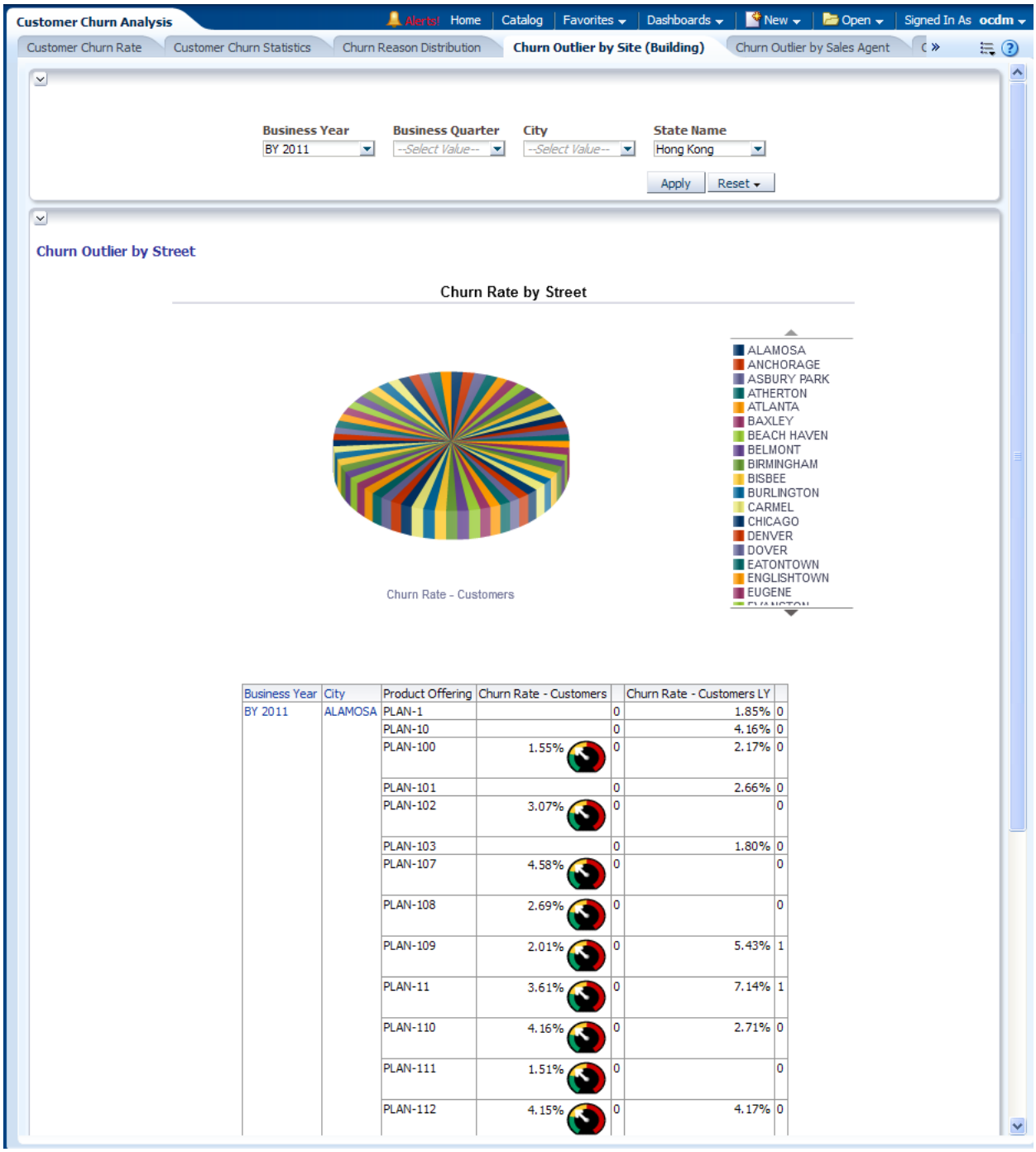
This report, as shown in Figure 12–16 mainly speaks about the broadband or Fix Line related churn analysis pertaining to one building or an area. The churn rates are displayed for all building in selected area, and those extremely high churn rates are identified as “Churn Outlier” beside the churn rate, marked by number “1” and background as RED.

It can help identify the churn related problem such as network problems, arrival of new competitors, and so on. For example, when competitors launch a promotion or your network fails, the churn rate may go up. This report can help identify the problem before revenue loss occurs.

Report dimensions are:

- Business Time
- Geography
- Product Offering

Figure 12–16 Churn Outlier by Site (Building) Report



Churn Outlier by Sales Agent

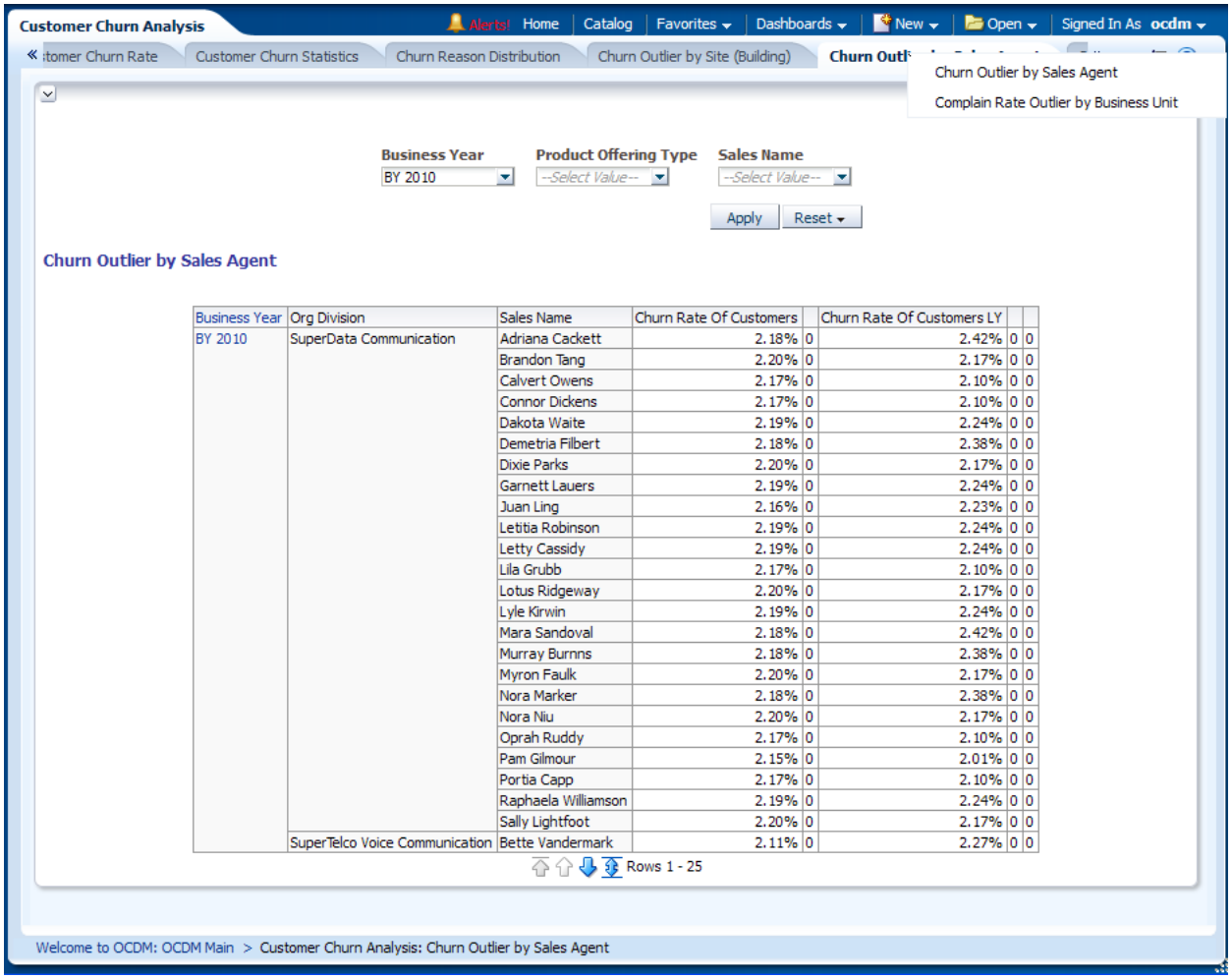
This report, as shown in Figure 12–17 identifies the extremely high churn rate in the customers brought in by certain sales representative agents. For example, the sales agent may introduce the package to those incapable of paying the bill, or to his friends who churn right after acquiring the promotion gifts. Thus it enables a service providers to identify fraud cases by sales agents.

Report dimensions are:

- Business Time

- Organization
- Product Offering Type
- Sales Channel Representative

Figure 12–17 Churn Outlier by Sales Agent Report



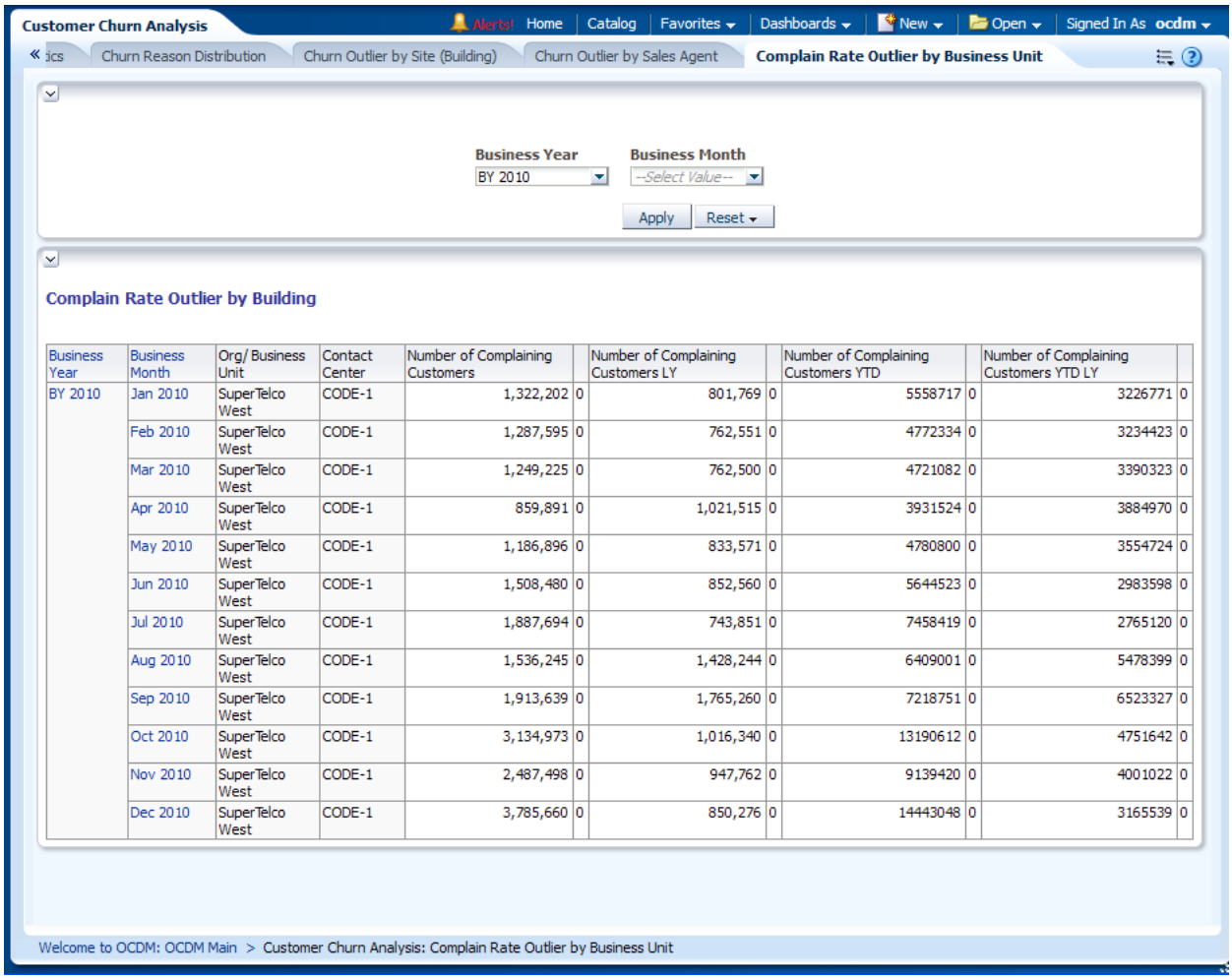
Complain Rate Outlier by Business Unit

This report, as shown in Figure 12–18 works in the same way as the report "Churn Outlier by Building". However, instead of detecting a high churn rate, which already incurred revenue loss, this report tries to identify those areas where an extremely high compliant rate is observed. The report also shows the complaint rate in LY, YTD and LY YTD.

Report dimensions are:

- Business Time

Figure 12–18 Complain Rate Outlier by Business Unit



Business Year	Business Month	Org/ Business Unit	Contact Center	Number of Complaining Customers		Number of Complaining Customers LY		Number of Complaining Customers YTD		Number of Complaining Customers YTD LY	
BY 2010	Jan 2010	SuperTelco West	CODE-1	1,322,202	0	801,769	0	5558717	0	3226771	0
	Feb 2010	SuperTelco West	CODE-1	1,287,595	0	762,551	0	4772334	0	3234423	0
	Mar 2010	SuperTelco West	CODE-1	1,249,225	0	762,500	0	4721082	0	3390323	0
	Apr 2010	SuperTelco West	CODE-1	859,891	0	1,021,515	0	3931524	0	3884970	0
	May 2010	SuperTelco West	CODE-1	1,186,896	0	833,571	0	4780800	0	3554724	0
	Jun 2010	SuperTelco West	CODE-1	1,508,480	0	852,560	0	5644523	0	2983598	0
	Jul 2010	SuperTelco West	CODE-1	1,887,694	0	743,851	0	7458419	0	2765120	0
	Aug 2010	SuperTelco West	CODE-1	1,536,245	0	1,428,244	0	6409001	0	5478399	0
	Sep 2010	SuperTelco West	CODE-1	1,913,639	0	1,765,260	0	7218751	0	6523327	0
	Oct 2010	SuperTelco West	CODE-1	3,134,973	0	1,016,340	0	13190612	0	4751642	0
	Nov 2010	SuperTelco West	CODE-1	2,487,498	0	947,762	0	9139420	0	4001022	0
	Dec 2010	SuperTelco West	CODE-1	3,785,660	0	850,276	0	14443048	0	3165539	0

Customer Churn Prediction

This area includes the reports: Retention Cumulative Gain, Prepaid Customer Churn Factor Rank, Postpaid Customer Churn Factor Rank, Predicted Churn Customer Report by Revenue Band, Churn Profile DT (Decision Tree) Rule, and Churn Prediction by (SVM result).

Retention Cumulative Gain

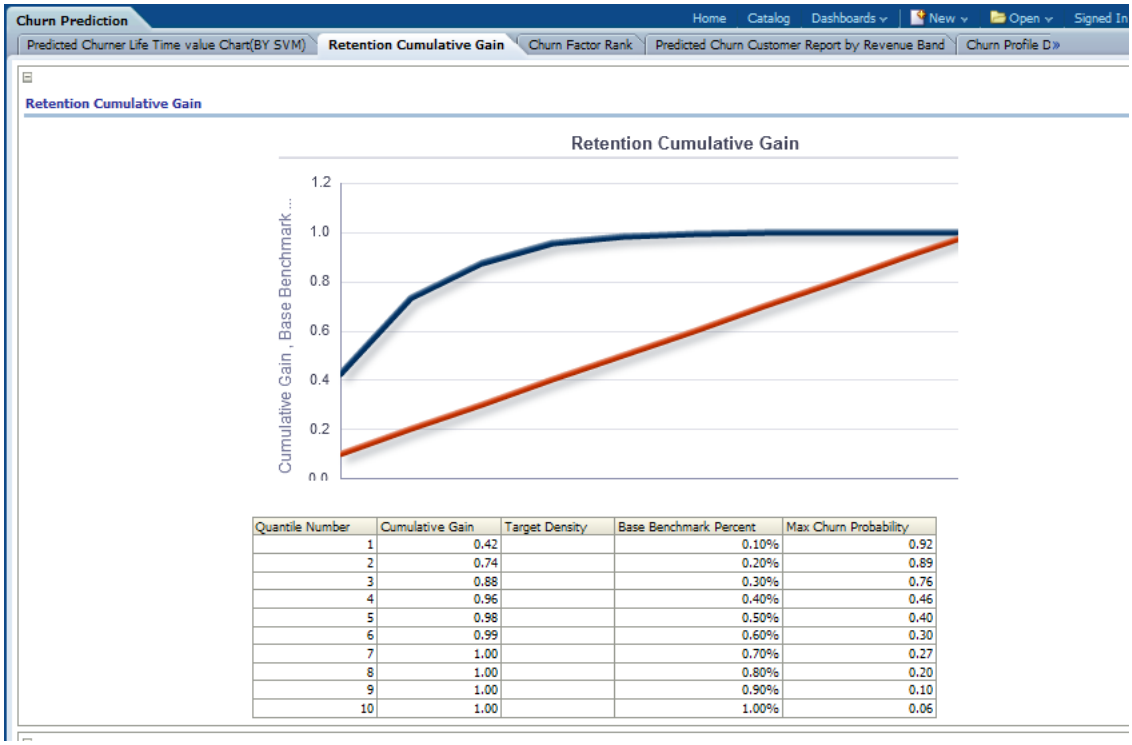
This report as shown in Figure 12–19 shows the Oracle Communications Data Model Churn prediction Model performance; this helps you determine a threshold for the percent of customers to run in the retention program. This retention can be done using phone calls or email. For example, according to the details in Figure 12–19, if the service provider selects 20% of MOST Likely churners according to the Oracle Communications Data Model Churn Prediction model, they can cover about 74% of real churners.

The chart here shows the accuracy of customers so identified under retention program prediction rather than picking on random selection of customers (shown as a straight line).

Report dimensions are:

- Churn SVM ROC

Figure 12–19 Retention Cumulative Gain Report



Quantile Number	Cumulative Gain	Target Density	Base Benchmark Percent	Max Churn Probability
1	0.42		0.10%	0.92
2	0.74		0.20%	0.89
3	0.88		0.30%	0.76
4	0.96		0.40%	0.46
5	0.98		0.50%	0.40
6	0.99		0.60%	0.30
7	1.00		0.70%	0.27
8	1.00		0.80%	0.20
9	1.00		0.90%	0.10
10	1.00		1.00%	0.06

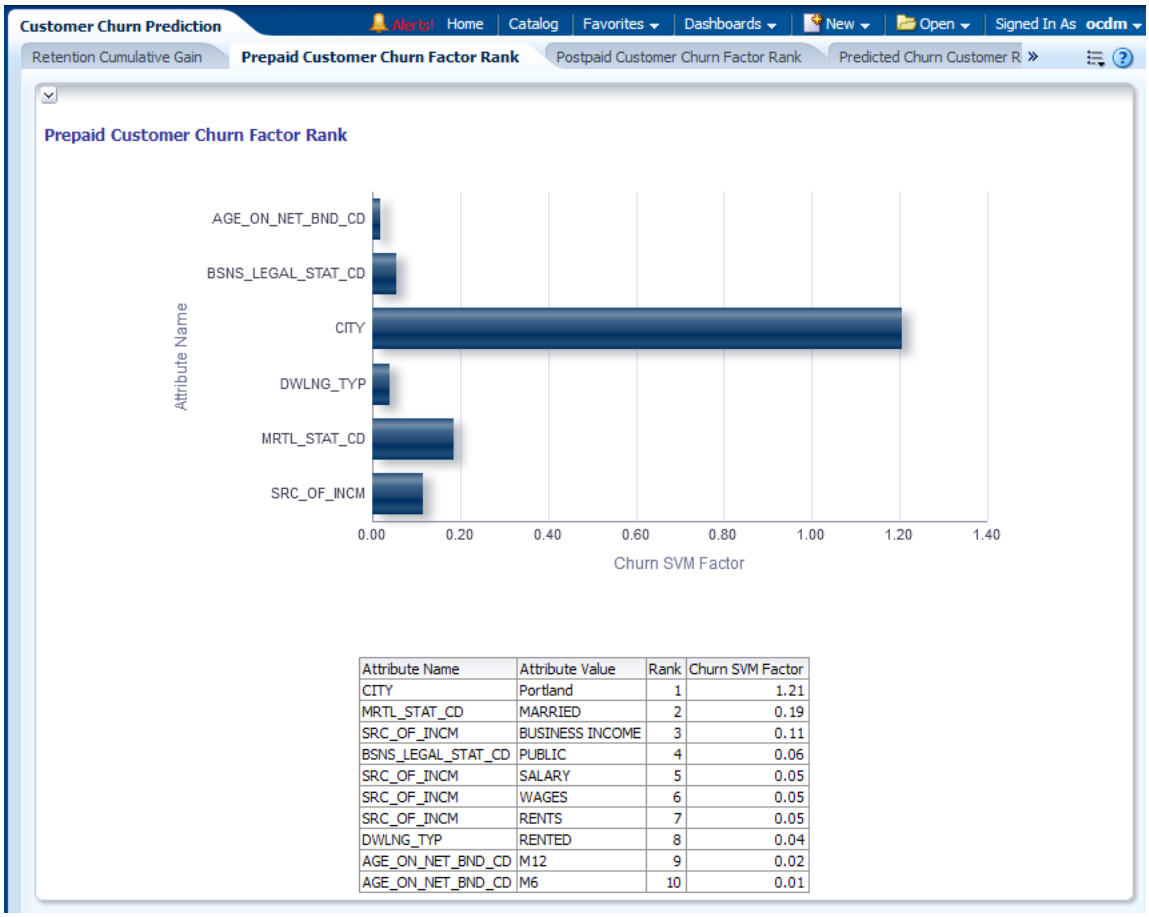
Prepaid Customer Churn Factor Rank

This as shown in Figure 12–20 can help you understand which attribute is more important in determining a prepaid customer churning pattern. The factors are ranked according to the SVM Coefficients from the Churn prediction model. The chart can help marketing understand the customers for a better campaign strategy.

Report dimensions are:

- Churn SVM ROC

Figure 12–20 Prepaid Customer Churn Factor Rank Report



Attribute Name	Attribute Value	Rank	Churn SVM Factor
CITY	Portland	1	1.21
MRTL_STAT_CD	MARRIED	2	0.19
SRC_OF_INCM	BUSINESS INCOME	3	0.11
BSNS_LEGAL_STAT_CD	PUBLIC	4	0.06
SRC_OF_INCM	SALARY	5	0.05
SRC_OF_INCM	WAGES	6	0.05
SRC_OF_INCM	RENTS	7	0.05
DWLNG_TYP	RENTED	8	0.04
AGE_ON_NET_BND_CD	M12	9	0.02
AGE_ON_NET_BND_CD	M6	10	0.01

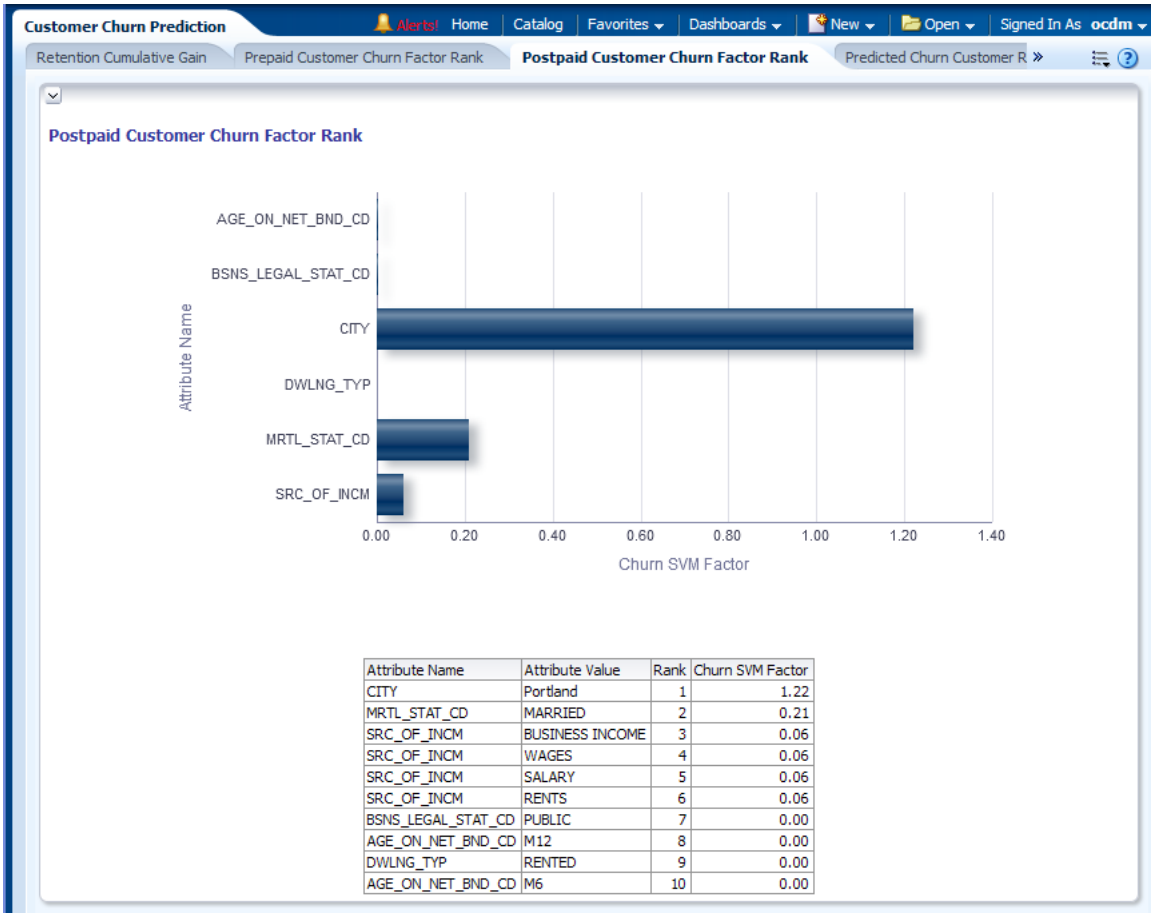
Postpaid Customer Churn Factor Rank

This as shown in Figure 12–21 can help you understand which attribute is more important in determining a postpaid customer churning pattern. The factors are ranked according to the SVM Coefficients from the Churn prediction model. The chart can help marketing understand the customers for a better campaign strategy.

Report dimensions are:

- Churn SVM ROC

Figure 12–21 Postpaid Customer Churn Factor Rank Report



Attribute Name	Attribute Value	Rank	Churn SVM Factor
CITY	Portland	1	1.22
MRTL_STAT_CD	MARRIED	2	0.21
SRC_OF_INCM	BUSINESS INCOME	3	0.06
SRC_OF_INCM	WAGES	4	0.06
SRC_OF_INCM	SALARY	5	0.06
SRC_OF_INCM	RENTS	6	0.06
BSNS_LEGAL_STAT_CD	PUBLIC	7	0.00
AGE_ON_NET_BND_CD	M12	8	0.00
DWLNG_TYP	RENTED	9	0.00
AGE_ON_NET_BND_CD	M6	10	0.00

Predicted Churn Customer Report by Revenue Band

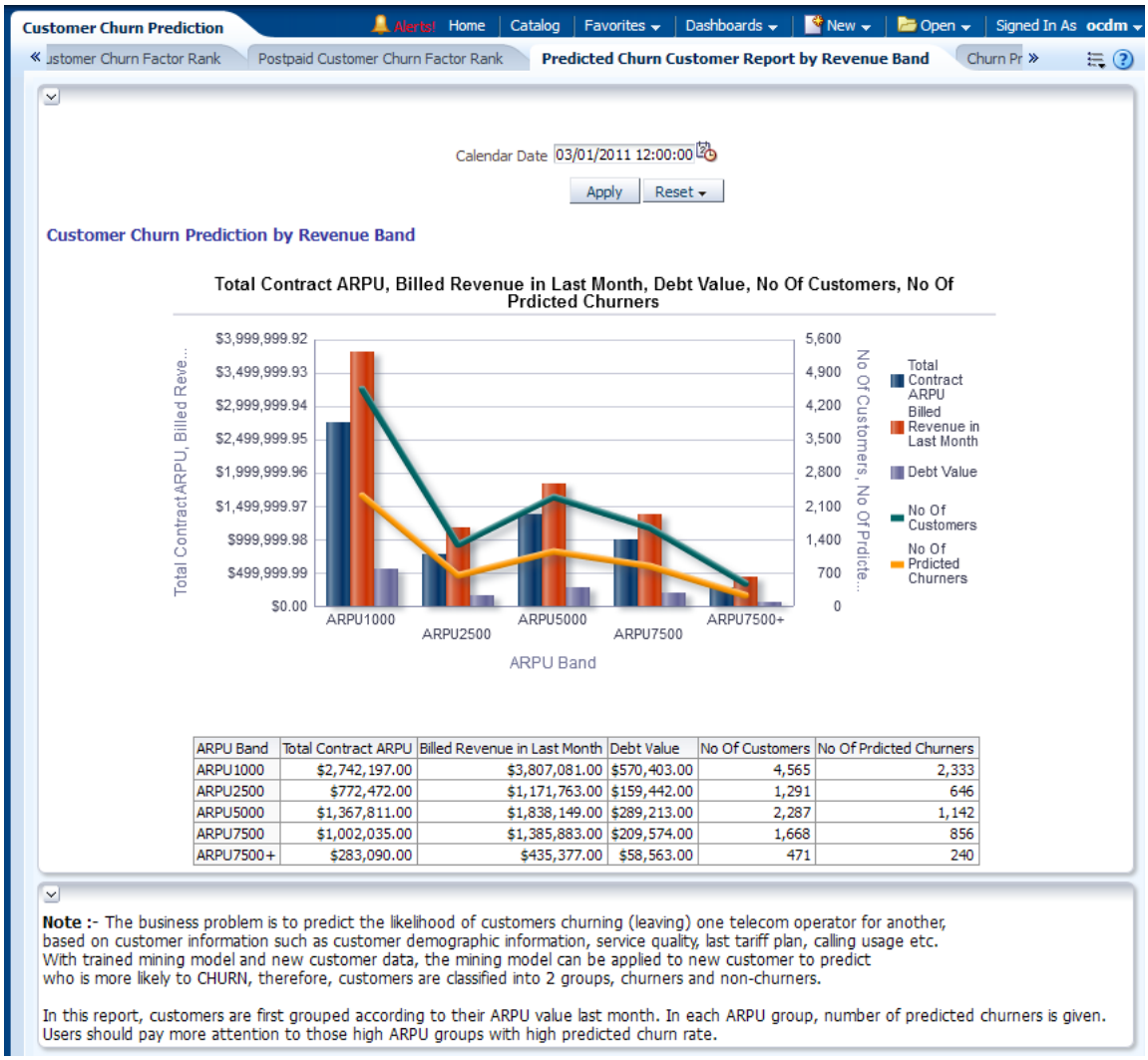
This report, as shown in Figure 12–22 shows the summary of customers and the summary of who may churn in the next month. The customers are binned into ARPU Band according to their last month revenue ARPU. In each ARPU band, the total revenue, debt value and Number of Predicted churners are displayed.

You can drill down into each ARPU band by clicking the ARPU band to see a customer list belonging to that ARPU band.

Report dimensions are:

- ARPU Band

Figure 12–22 Predicted Churn Customer Report by Revenue Band Report



ARPU Band	Total Contract ARPU	Billed Revenue in Last Month	Debt Value	No Of Customers	No Of Prdicted Churners
ARPU1000	$2,742,197.00	$3,807,081.00	$570,403.00	4,565	2,333
ARPU2500	$772,472.00	$1,171,763.00	$159,442.00	1,291	646
ARPU5000	$1,367,811.00	$1,838,149.00	$289,213.00	2,287	1,142
ARPU7500	$1,002,035.00	$1,385,883.00	$209,574.00	1,668	856
ARPU7500+	$283,090.00	$435,377.00	$58,563.00	471	240

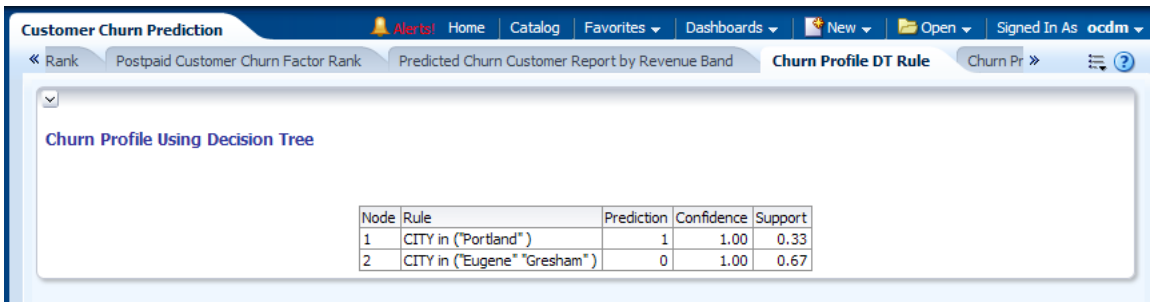
Note :- The business problem is to predict the likelihood of customers churning (leaving) one telecom operator for another, based on customer information such as customer demographic information, service quality, last tariff plan, calling usage etc. With trained mining model and new customer data, the mining model can be applied to new customer to predict who is more likely to CHURN, therefore, customers are classified into 2 groups, churners and non-churners.

In this report, customers are first grouped according to their ARPU value last month. In each ARPU group, number of predicted churners is given. Users should pay more attention to those high ARPU groups with high predicted churn rate.

Churn Profile DT (Decision Tree) Rule

This report as shown in Figure 12–23, mainly speaks about the customers churn profiling for each Decision Tree node generated by the decision tree Churn Prediction model.

Figure 12–23 Churn Profile DT (Decision Tree) Rule Report



Node	Rule	Prediction	Confidence	Support
1	CITY in ("Portland")	1	1.00	0.33
2	CITY in ("Eugene" "Gresham")	0	1.00	0.67

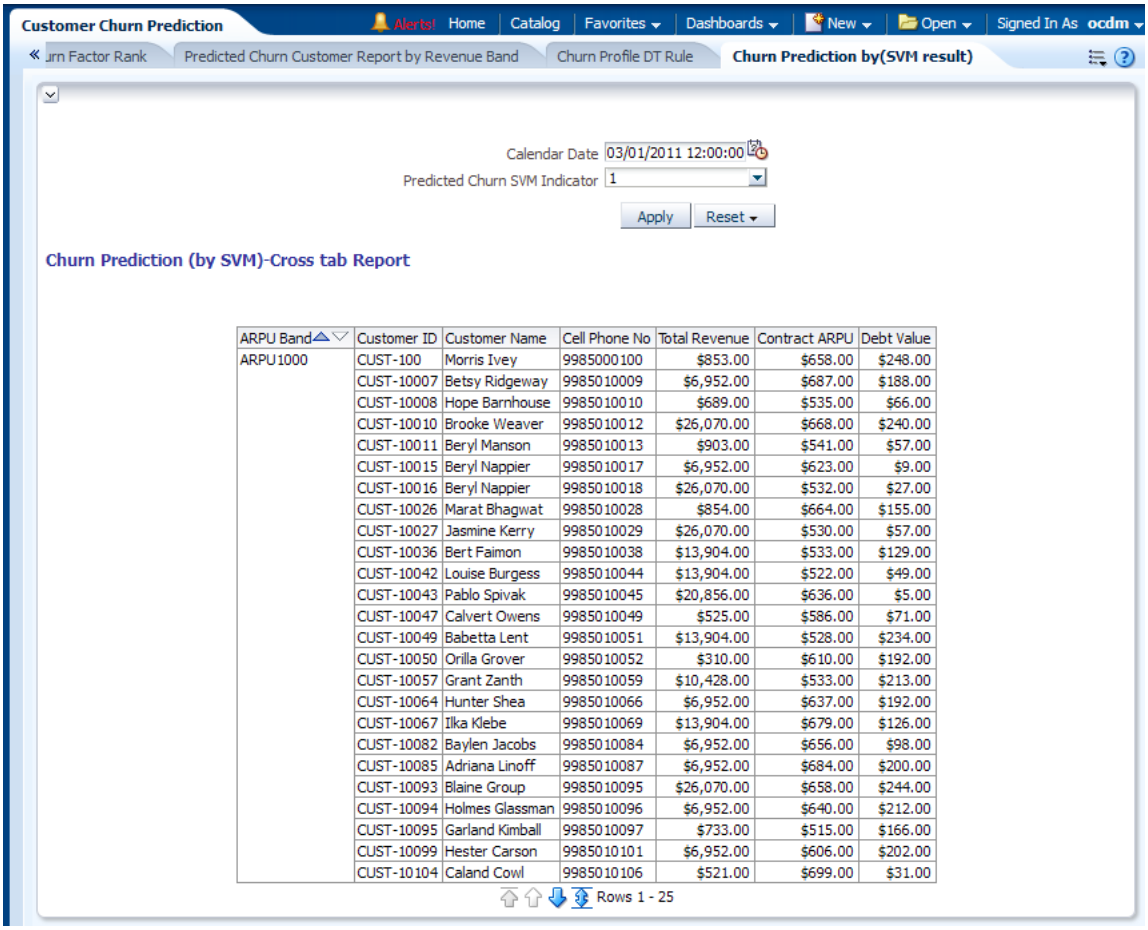
Churn Prediction by (SVM result)

This as shown in Figure 12–24, identifies the patterns of customers churning (leaving) based on customer information such as customer demographic information, service quality, last tariff plan, calling usage, and other factors. Base lining on these patterns, the model can also do the calculation over current customer base (called 'Apply') to predict who the customers are mostly like to churn in next few months. With these predictions, operators can initiate certain retention programs to reduce the customer churn rate.

Report dimensions are:

- Business Time
- Organization
- Customer

Figure 12–24 Churn Prediction by (SVM Result) Report



ARPU Band	Customer ID	Customer Name	Cell Phone No	Total Revenue	Contract ARPU	Debt Value
ARPU1000	CUST-100	Morris Ivey	9985000100	$853.00	$658.00	$248.00
	CUST-10007	Betsy Ridgeway	9985010009	$6,952.00	$687.00	$188.00
	CUST-10008	Hope Barnhouse	9985010010	$689.00	$535.00	$66.00
	CUST-10010	Brooke Weaver	9985010012	$26,070.00	$668.00	$240.00
	CUST-10011	Beryl Manson	9985010013	$903.00	$541.00	$57.00
	CUST-10015	Beryl Nappier	9985010017	$6,952.00	$623.00	$9.00
	CUST-10016	Beryl Nappier	9985010018	$26,070.00	$532.00	$27.00
	CUST-10026	Marat Bhagwat	9985010028	$854.00	$664.00	$155.00
	CUST-10027	Jasmine Kerry	9985010029	$26,070.00	$530.00	$57.00
	CUST-10036	Bert Faimon	9985010038	$13,904.00	$533.00	$129.00
	CUST-10042	Louise Burgess	9985010044	$13,904.00	$522.00	$49.00
	CUST-10043	Pablo Spivak	9985010045	$20,856.00	$636.00	$5.00
	CUST-10047	Calvert Owens	9985010049	$525.00	$586.00	$71.00
	CUST-10049	Babetta Lent	9985010051	$13,904.00	$528.00	$234.00
	CUST-10050	Orilla Grover	9985010052	$310.00	$610.00	$192.00
	CUST-10057	Grant Zanth	9985010059	$10,428.00	$533.00	$213.00
	CUST-10064	Hunter Shea	9985010066	$6,952.00	$637.00	$192.00
	CUST-10067	Ilka Klebe	9985010069	$13,904.00	$679.00	$126.00
	CUST-10082	Baylen Jacobs	9985010084	$6,952.00	$656.00	$98.00
	CUST-10085	Adriana Linoff	9985010087	$6,952.00	$684.00	$200.00
	CUST-10093	Blaine Group	9985010095	$26,070.00	$658.00	$244.00
	CUST-10094	Holmes Glassman	9985010096	$6,952.00	$640.00	$212.00
	CUST-10095	Garland Kimball	9985010097	$733.00	$515.00	$166.00
	CUST-10099	Hester Carson	9985010101	$6,952.00	$606.00	$202.00
	CUST-10104	Caland Cowl	9985010106	$521.00	$699.00	$31.00

Revenue Reports

The revenue reports show the following areas:

- Revenue Analysis and Forecast
- Revenue Assurance
- Sales Analysis

- Debt Collection
- Refund and Adjustment
- Customer Agreements

Revenue Analysis and Forecast

This area includes the reports: Monthly Revenue, Revenue Forecast, Average Revenue per User (ARPU), and Average Revenue per Employee.

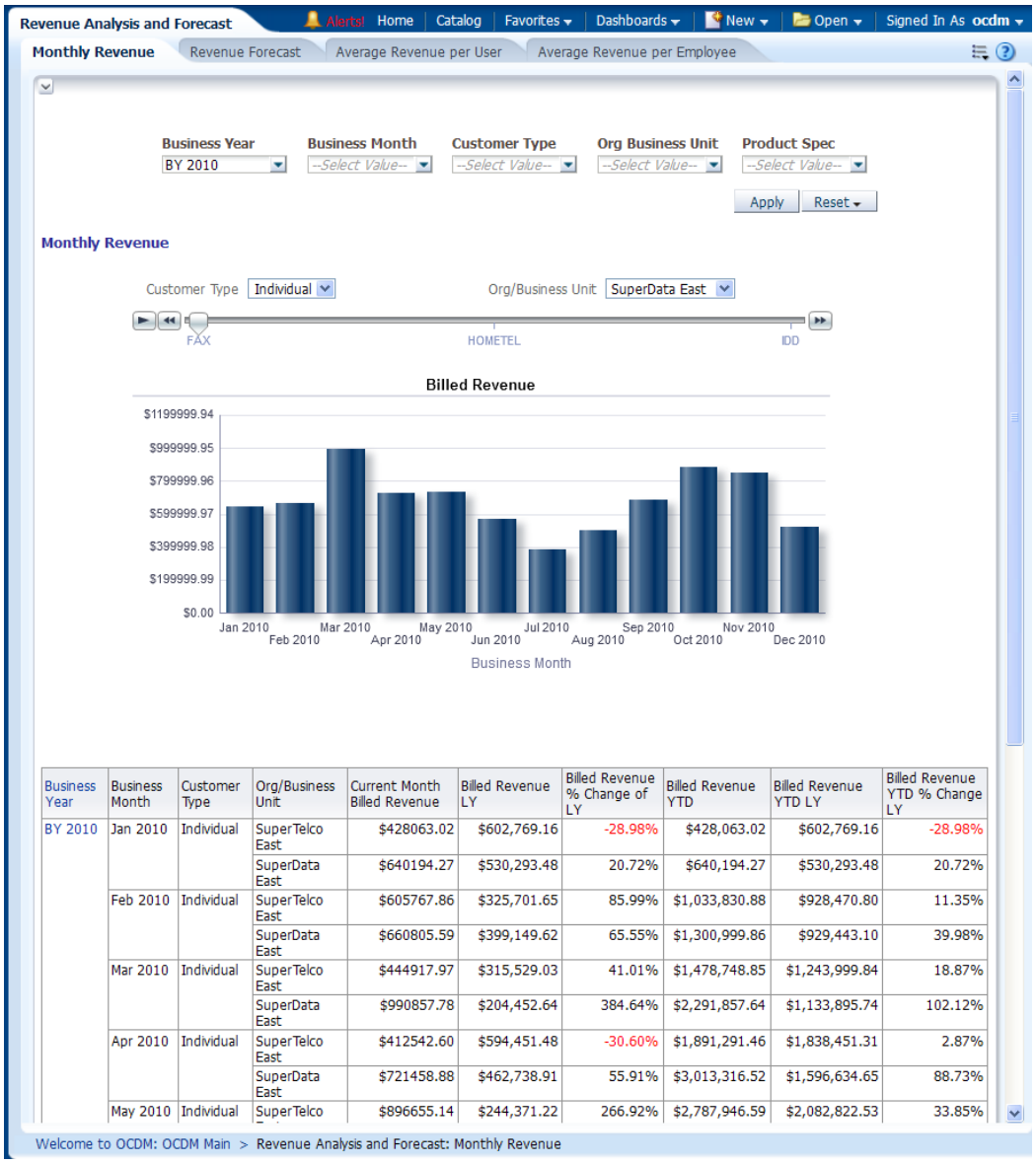
Monthly Revenue

This report, as shown in Figure 12–25 provides month-level transaction activity information based on revenue measures, for one or more organizations and products and for one or more locations.

Report dimensions are:

- Business Time
- Customer Type
- Product Specification
- Geography
- Organization

Figure 12–25 Monthly Revenue Report



Business Year	Business Month	Customer Type	Org/Business Unit	Current Month Billed Revenue	Billed Revenue LY	Billed Revenue % Change of LY	Billed Revenue YTD	Billed Revenue YTD LY	Billed Revenue YTD % Change LY
BY 2010	Jan 2010	Individual	SuperTelco East	$428063.02	$602,769.16	-28.98%	$428,063.02	$602,769.16	-28.98%
			SuperData East	$640194.27	$530,293.48	20.72%	$640,194.27	$530,293.48	20.72%
	Feb 2010	Individual	SuperTelco East	$605767.86	$325,701.65	85.99%	$1,033,830.88	$928,470.80	11.35%
			SuperData East	$660805.59	$399,149.62	65.55%	$1,300,999.86	$929,443.10	39.98%
	Mar 2010	Individual	SuperTelco East	$444917.97	$315,529.03	41.01%	$1,478,748.85	$1,243,999.84	18.87%
			SuperData East	$990857.78	$204,452.64	384.64%	$2,291,857.64	$1,133,895.74	102.12%
	Apr 2010	Individual	SuperTelco East	$412542.60	$594,451.48	-30.60%	$1,891,291.46	$1,838,451.31	2.87%
			SuperData East	$721458.88	$462,738.91	55.91%	$3,013,316.52	$1,596,634.65	88.73%
	May 2010	Individual	SuperTelco	$896655.14	$244,371.22	266.92%	$2,787,946.59	$2,082,822.53	33.85%

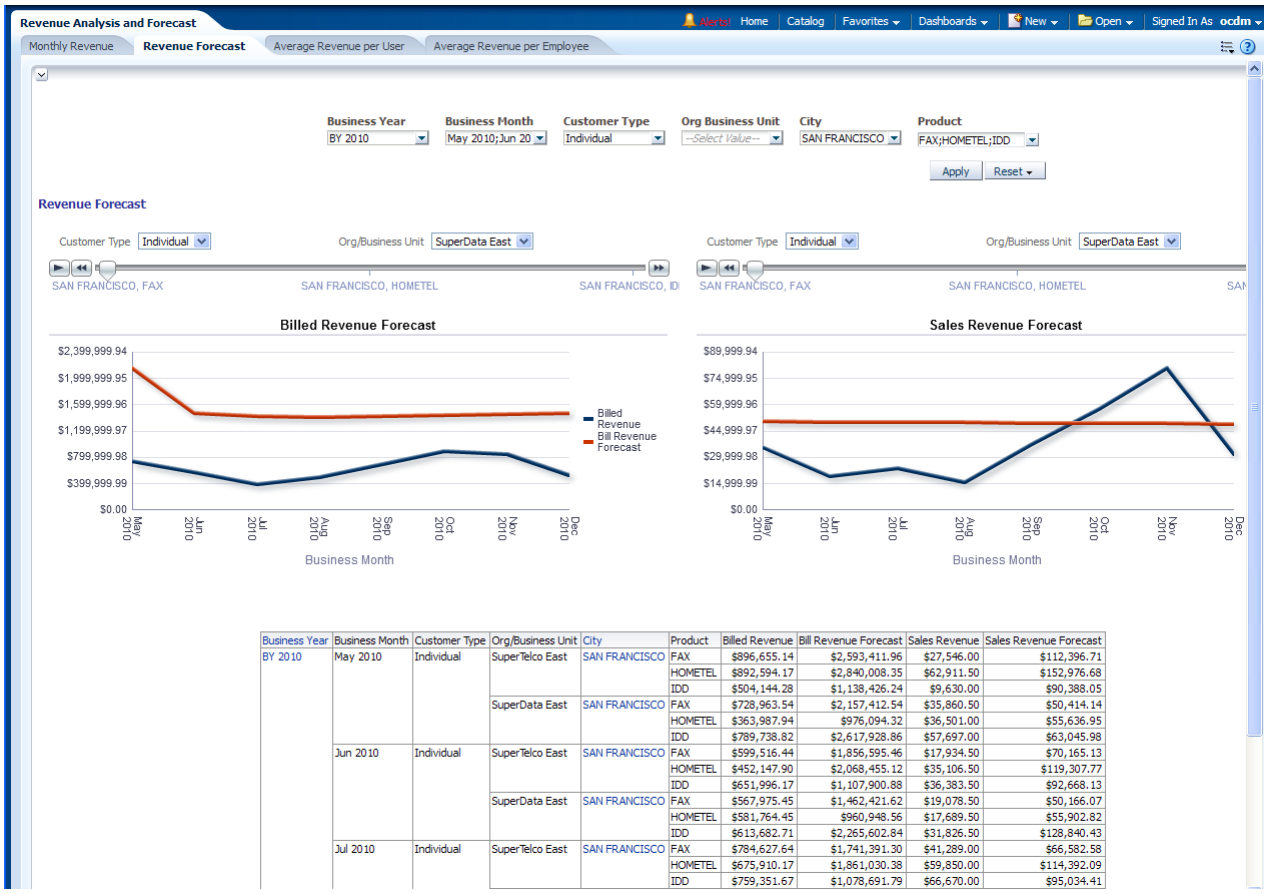
Revenue Forecast

This report, as shown in Figure 12–26 provides month-level transaction activity information based on revenue measures, for one or more locations.

Report dimensions are:

- Business Time
- Customer Type
- Product
- Geography
- Organization

Figure 12–26 Revenue Forecast Report



Business Year	Business Month	Customer Type	Org/Business Unit	City	Product	Billed Revenue	Bill Revenue Forecast	Sales Revenue	Sales Revenue Forecast
BY 2010	May 2010	Individual	SuperTelco East	SAN FRANCISCO	FAX	$896,655.14	$2,593,411.96	$27,546.00	$112,396.71
					HOMETEL	$892,594.17	$2,840,008.35	$62,911.50	$152,976.68
					IDD	$504,144.28	$1,138,426.24	$9,630.00	$90,388.05
			SuperData East	SAN FRANCISCO	FAX	$728,963.54	$2,157,412.54	$35,860.50	$50,414.14
					HOMETEL	$363,987.94	$976,094.32	$36,501.00	$55,636.95
					IDD	$789,738.82	$2,617,928.86	$57,697.00	$63,045.98
	Jun 2010	Individual	SuperTelco East	SAN FRANCISCO	FAX	$599,516.44	$1,856,595.46	$17,934.50	$70,165.13
					HOMETEL	$452,147.90	$2,068,455.12	$35,106.50	$119,307.77
					IDD	$651,996.17	$1,107,900.88	$36,383.50	$92,668.13
			SuperData East	SAN FRANCISCO	FAX	$567,975.45	$1,462,421.62	$19,078.50	$50,166.07
					HOMETEL	$581,764.45	$960,948.56	$17,689.50	$55,902.82
					IDD	$613,682.71	$2,265,602.84	$31,826.50	$128,840.43
	Jul 2010	Individual	SuperTelco East	SAN FRANCISCO	FAX	$784,627.64	$1,741,391.30	$41,289.00	$66,582.58
					HOMETEL	$675,910.17	$1,861,030.38	$59,850.00	$114,392.09
					IDD	$759,351.67	$1,078,691.79	$66,670.00	$95,034.41

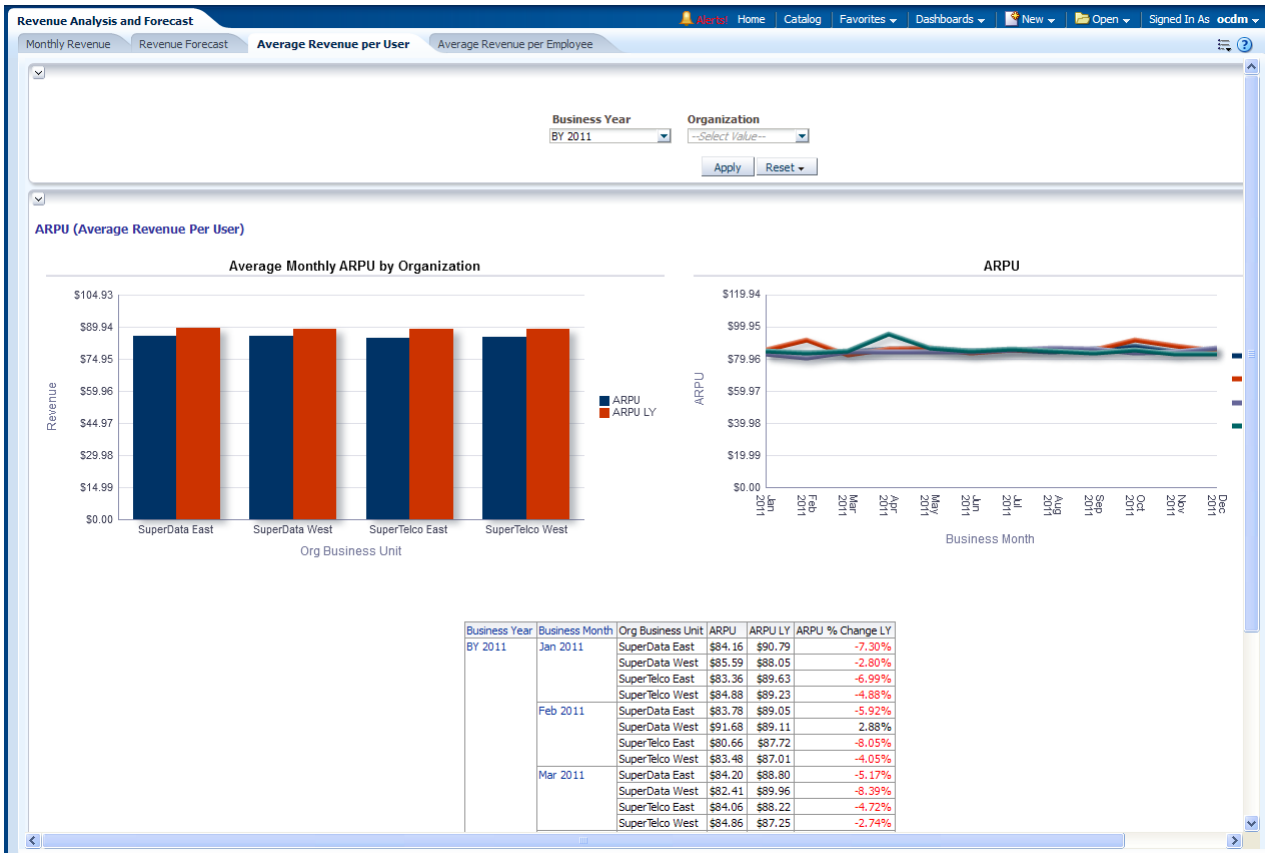
Average Revenue per User (ARPU)

This report, as shown in Figure 12–27 provides month-level transaction activity information based on ARPU measures, for one or more stores and this is a calculation often used to determine the overall value of an application. This report used to generate revenue for a particular customer by comparing someone's account to the overall average.

Report dimensions are:

- Business Time
- Organization

Figure 12–27 Revenue Average Revenue per User (ARPU) Report



Business Year	Business Month	Org Business Unit	ARPU	ARPU LY	ARPU % Change LY
BY 2011	Jan 2011	SuperData East	$84.16	$90.79	-7.30%
		SuperData West	$85.59	$88.05	-2.80%
		SuperTelco East	$83.36	$89.63	-6.99%
		SuperTelco West	$84.88	$89.23	-4.88%
	Feb 2011	SuperData East	$83.78	$89.05	-5.92%
		SuperData West	$91.68	$89.11	2.88%
		SuperTelco East	$80.66	$87.72	-8.05%
		SuperTelco West	$83.48	$87.01	-4.05%
	Mar 2011	SuperData East	$84.20	$88.80	-5.17%
		SuperData West	$82.41	$89.96	-8.39%
		SuperTelco East	$84.06	$88.22	-4.72%
		SuperTelco West	$84.86	$87.25	-2.74%

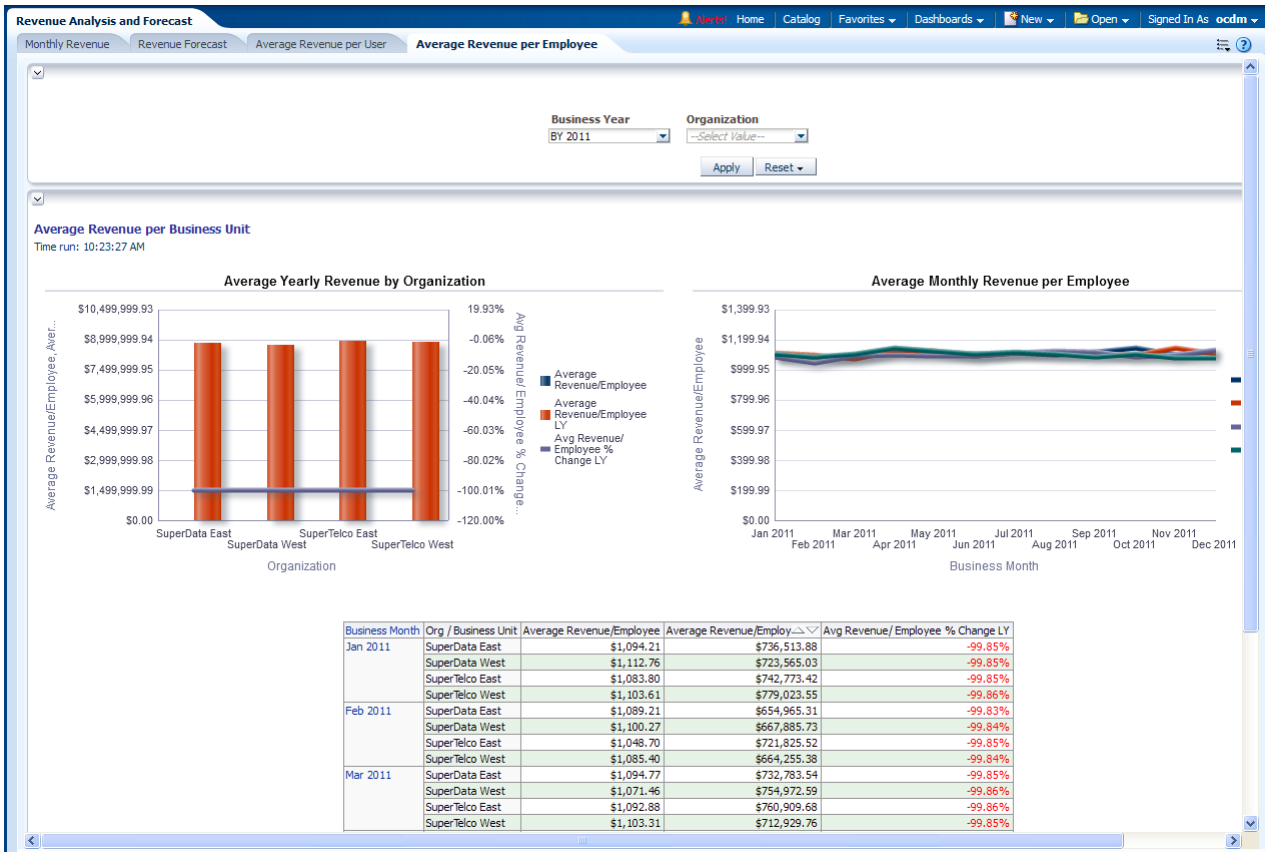
Average Revenue per Employee

This report, as shown in Figure 12–28 shows the average revenue per Business Unit. The average revenue is calculated as total revenue of that organization divided by the number of employees.

Report dimensions are:

- Business Time
- Organization

Figure 12–28 Revenue Average Revenue per Employee Report



Business Month	Org / Business Unit	Average Revenue/Employee	Average Revenue/Employ...	Avg Revenue/ Employee % Change LY
Jan 2011	SuperData East	$1,094.21	$736,513.88	-99.85%
	SuperData West	$1,112.76	$723,565.03	-99.85%
	SuperTelco East	$1,083.80	$742,773.42	-99.85%
	SuperTelco West	$1,103.61	$779,023.55	-99.86%
Feb 2011	SuperData East	$1,089.21	$654,965.31	-99.83%
	SuperData West	$1,100.27	$667,885.73	-99.84%
	SuperTelco East	$1,048.70	$721,825.52	-99.85%
	SuperTelco West	$1,085.40	$664,255.38	-99.84%
Mar 2011	SuperData East	$1,094.77	$732,783.54	-99.85%
	SuperData West	$1,071.46	$754,972.59	-99.86%
	SuperTelco East	$1,092.88	$760,909.68	-99.86%
	SuperTelco West	$1,103.31	$712,929.76	-99.85%

Revenue Assurance

This area includes the reports: CDR Revenue Compared to Collected Revenue, Percent of Suspended xDRs, Uncollected Revenue Percentage, and Revenue Assurance.

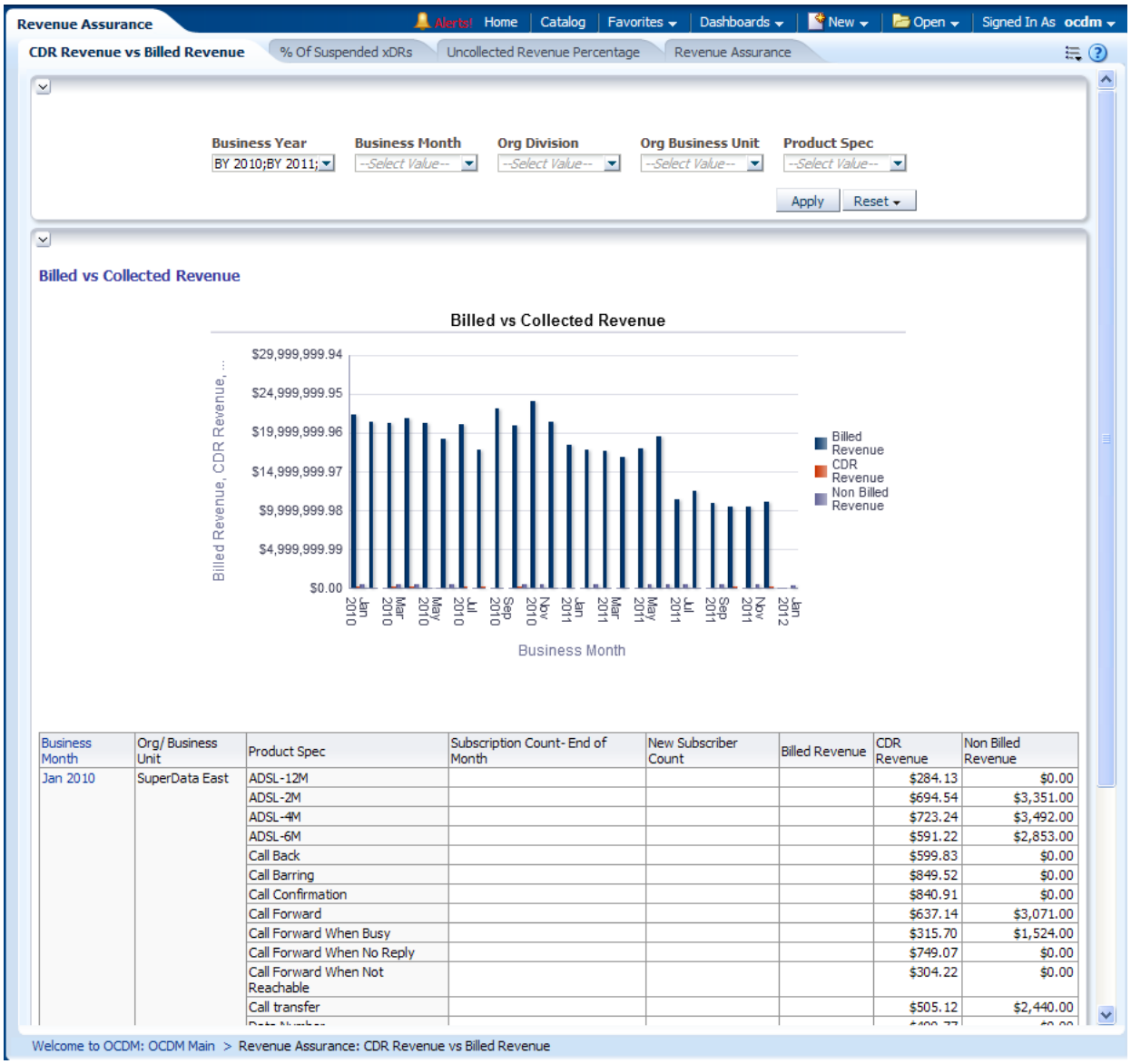
CDR Revenue Compared to Collected Revenue

This report, as shown in Figure 12–29 analyzes CDR revenue, and compares, billed revenue with collected revenue for a product specification.

Report dimensions are:

- Business Time
- Organization
- Product Specification

Figure 12–29 CDR Revenue Compared to Billed Revenue Report



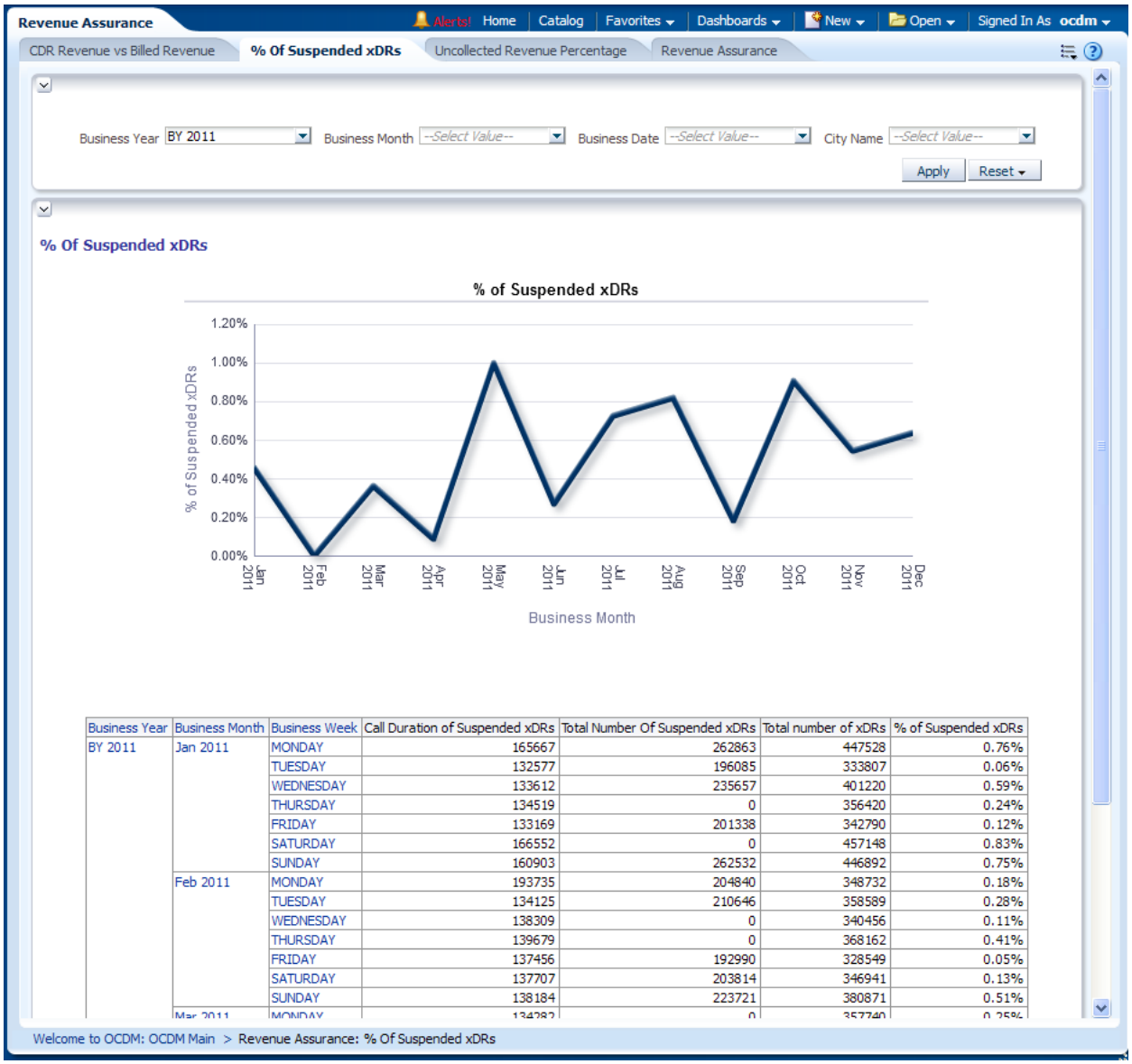
Percent of Suspended xDRs

This report, as shown in Figure 12–30 shows analyzes suspended or errored billable xDRs. Those CDRs cannot be billed successfully and cause revenue leakage compared with the total xDRs.

Report dimensions are:

- Business Time
- Geography

Figure 12–30 Revenue Assurance Percent of Suspended xDRs Report



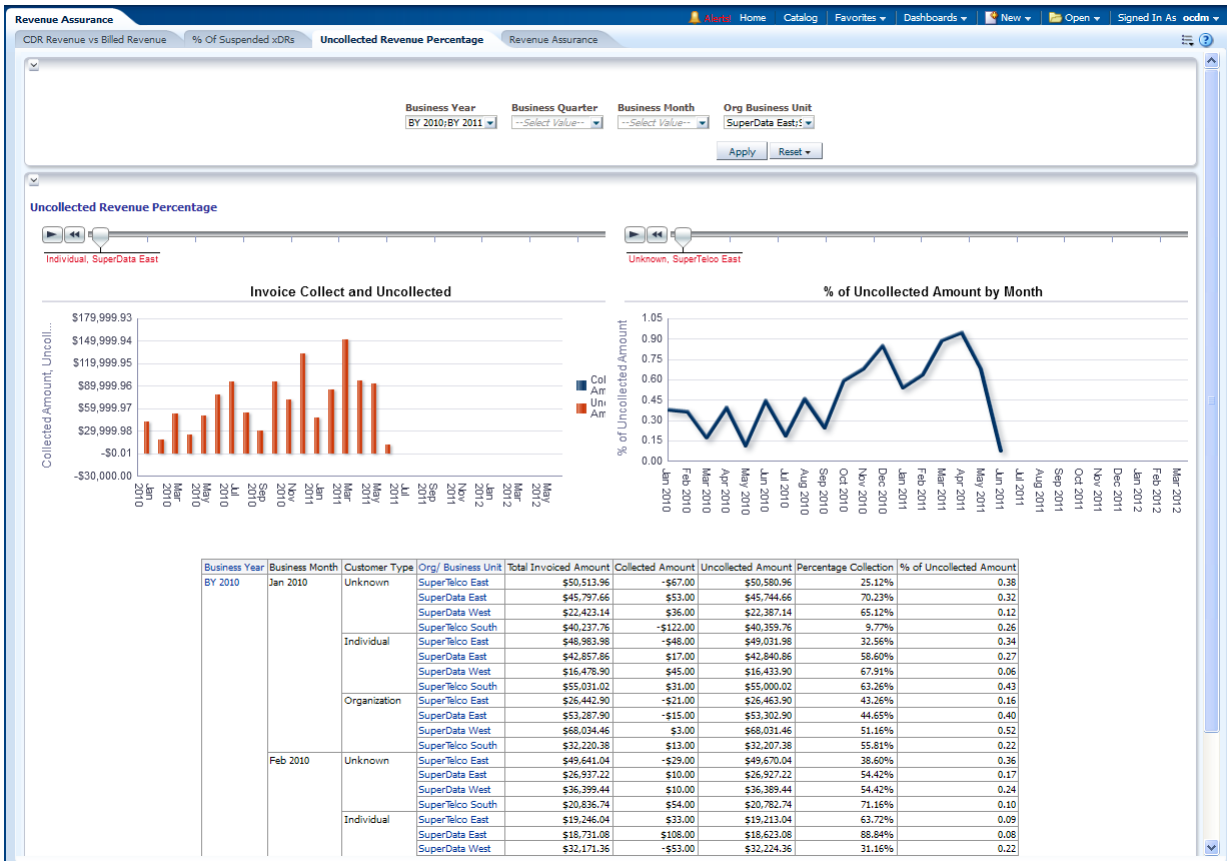
Uncollected Revenue Percentage

This report, as shown in Figure 12–31 analyzes the collected invoice amount and the uncollected amount for each Month. This is also a way to monitor the revenue leakage.

Report dimensions are:

- Business Time
- Organization
- Customer Type
- Geography
- Product

Figure 12–31 Revenue Assurance Uncollected Revenue Percentage Report



Business Year	Business Month	Customer Type	Org/ Business Unit	Total Invoiced Amount	Collected Amount	Uncollected Amount	Percentage Collection	% of Uncollected Amount
BY 2010	Jan 2010	Unknown	SuperTelco East	$50,513.96	-$67.00	$50,580.96	25.12%	0.38
			SuperData East	$45,797.66	$53.00	$45,744.66	70.23%	0.32
			SuperData West	$22,423.14	$36.00	$22,387.14	65.12%	0.12
			SuperTelco South	$40,237.76	-$122.00	$40,359.76	9.77%	0.26
		Individual	SuperTelco East	$48,983.98	-$48.00	$49,031.98	32.56%	0.34
			SuperData East	$42,857.86	$17.00	$42,840.86	58.60%	0.27
			SuperData West	$16,478.90	$45.00	$16,433.90	67.91%	0.06
			SuperTelco South	$55,031.02	$31.00	$55,000.02	63.26%	0.43
		Organization	SuperTelco East	$26,442.90	-$21.00	$26,463.90	43.26%	0.16
			SuperData East	$53,287.90	-$15.00	$53,302.90	44.65%	0.40
			SuperData West	$68,034.46	$3.00	$68,031.46	51.16%	0.52
			SuperTelco South	$32,220.38	$13.00	$32,207.38	55.81%	0.22
	Feb 2010	Unknown	SuperTelco East	$49,641.04	-$29.00	$49,670.04	38.60%	0.36
			SuperData East	$26,937.22	$10.00	$26,927.22	54.42%	0.17
			SuperData West	$36,399.44	$10.00	$36,389.44	54.42%	0.24
			SuperTelco South	$20,836.74	$54.00	$20,782.74	71.16%	0.10
		Individual	SuperTelco East	$19,246.04	$33.00	$19,213.04	63.72%	0.09
			SuperData East	$18,731.08	$108.00	$18,623.08	88.84%	0.08
			SuperData West	$32,171.36	-$53.00	$32,224.36	31.16%	0.22

Revenue Assurance

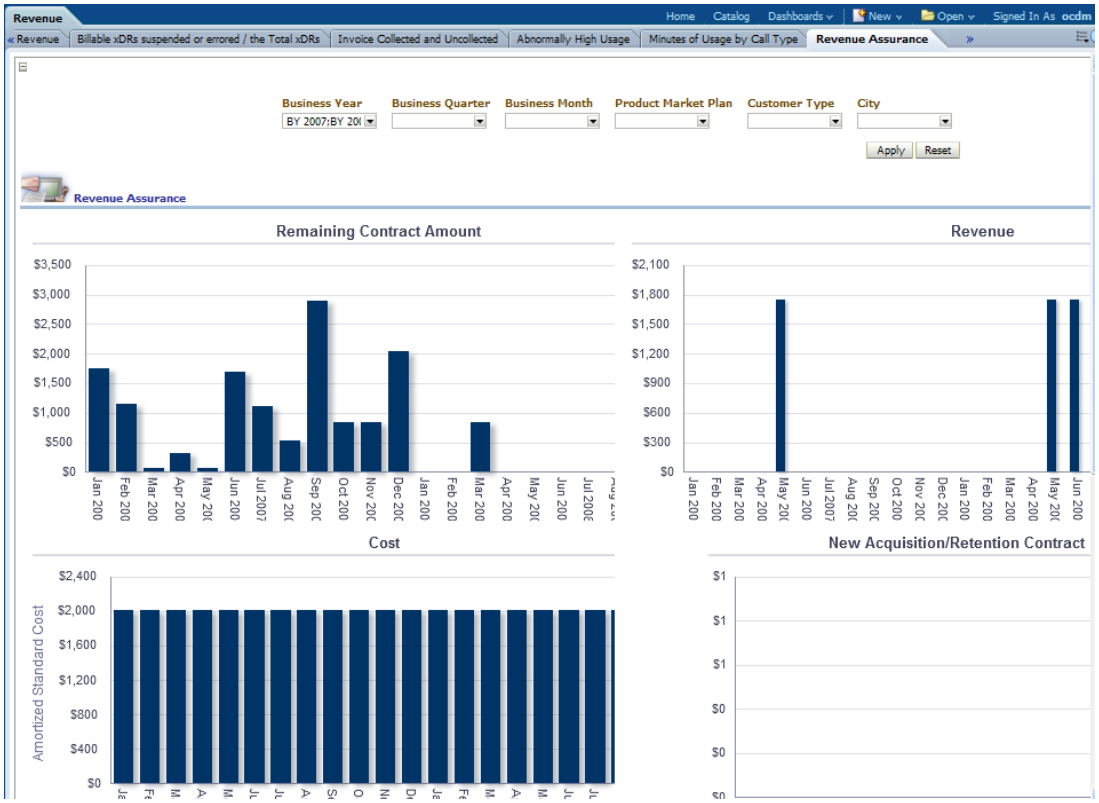
This report, as shown in Figure 12–32 determines how to best to assure that all of the revenue is earned. This is done by analyzing the revenue related information such as Remaining contract SUM, Retention count, and so on.

The remaining contract Sum indicates how much revenue can be expected in next six months or one year for a given product or organization business unit.

Report dimensions are:

- Business Time
- Organization
- Product Offering
- Geography

Figure 12–32 Revenue Assurance Report



Sales Analysis

This area includes the reports: Gross Sales and Net Sales.

Gross Sales

This report, as shown in Figure 12–33 provides month-level sales summary information, for one or more locations.

Report dimensions are:

- Business Time
- Product
- Geography

Figure 12–33 Gross Sales Report

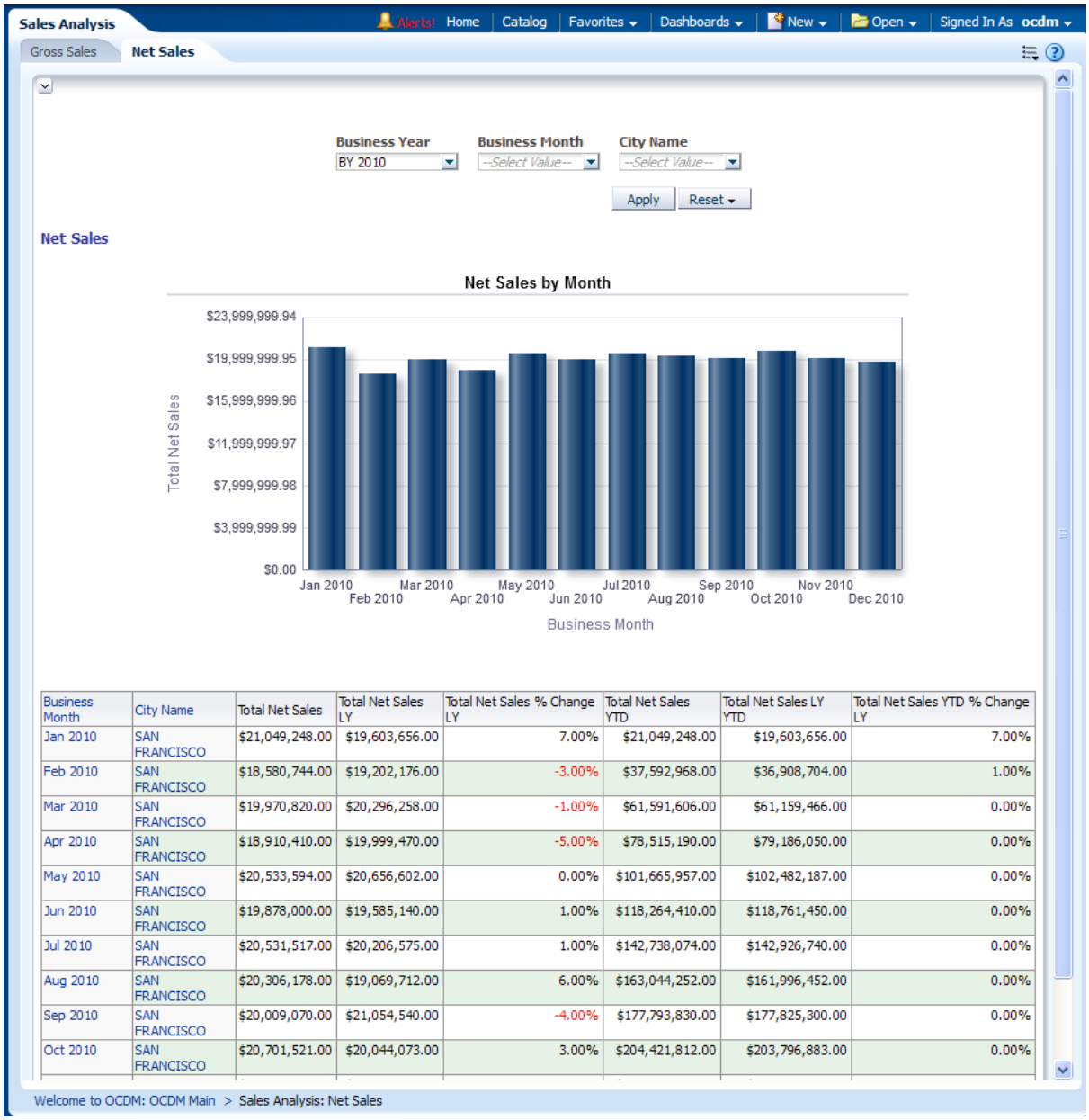
Net Sales

This report, as shown in Figure 12–34 provides month-level net sales summary, for one or more locations. The exact definitions of net sales can be refined by the service operator, while the default definition is the sales amount deducted by the cost of handset, human resources, and so on.

Report dimensions are:

- Business Time
- Product
- Geography

Figure 12–34 Net Sales Report



Business Month	City Name	Total Net Sales	Total Net Sales LY	Total Net Sales % Change LY	Total Net Sales YTD	Total Net Sales LY YTD	Total Net Sales YTD % Change LY
Jan 2010	SAN FRANCISCO	$21,049,248.00	$19,603,656.00	7.00%	$21,049,248.00	$19,603,656.00	7.00%
Feb 2010	SAN FRANCISCO	$18,580,744.00	$19,202,176.00	-3.00%	$37,592,968.00	$36,908,704.00	1.00%
Mar 2010	SAN FRANCISCO	$19,970,820.00	$20,296,258.00	-1.00%	$61,591,606.00	$61,159,466.00	0.00%
Apr 2010	SAN FRANCISCO	$18,910,410.00	$19,999,470.00	-5.00%	$78,515,190.00	$79,186,050.00	0.00%
May 2010	SAN FRANCISCO	$20,533,594.00	$20,656,602.00	0.00%	$101,665,957.00	$102,482,187.00	0.00%
Jun 2010	SAN FRANCISCO	$19,878,000.00	$19,585,140.00	1.00%	$118,264,410.00	$118,761,450.00	0.00%
Jul 2010	SAN FRANCISCO	$20,531,517.00	$20,206,575.00	1.00%	$142,738,074.00	$142,926,740.00	0.00%
Aug 2010	SAN FRANCISCO	$20,306,178.00	$19,069,712.00	6.00%	$163,044,252.00	$161,996,452.00	0.00%
Sep 2010	SAN FRANCISCO	$20,009,070.00	$21,054,540.00	-4.00%	$177,793,830.00	$177,825,300.00	0.00%
Oct 2010	SAN FRANCISCO	$20,701,521.00	$20,044,073.00	3.00%	$204,421,812.00	$203,796,883.00	0.00%

Debt Collection

This area includes the reports: Debt Aging, Recovered Revenue Value, External Debt Collection, and Adjustment to Customer.

Debt Aging

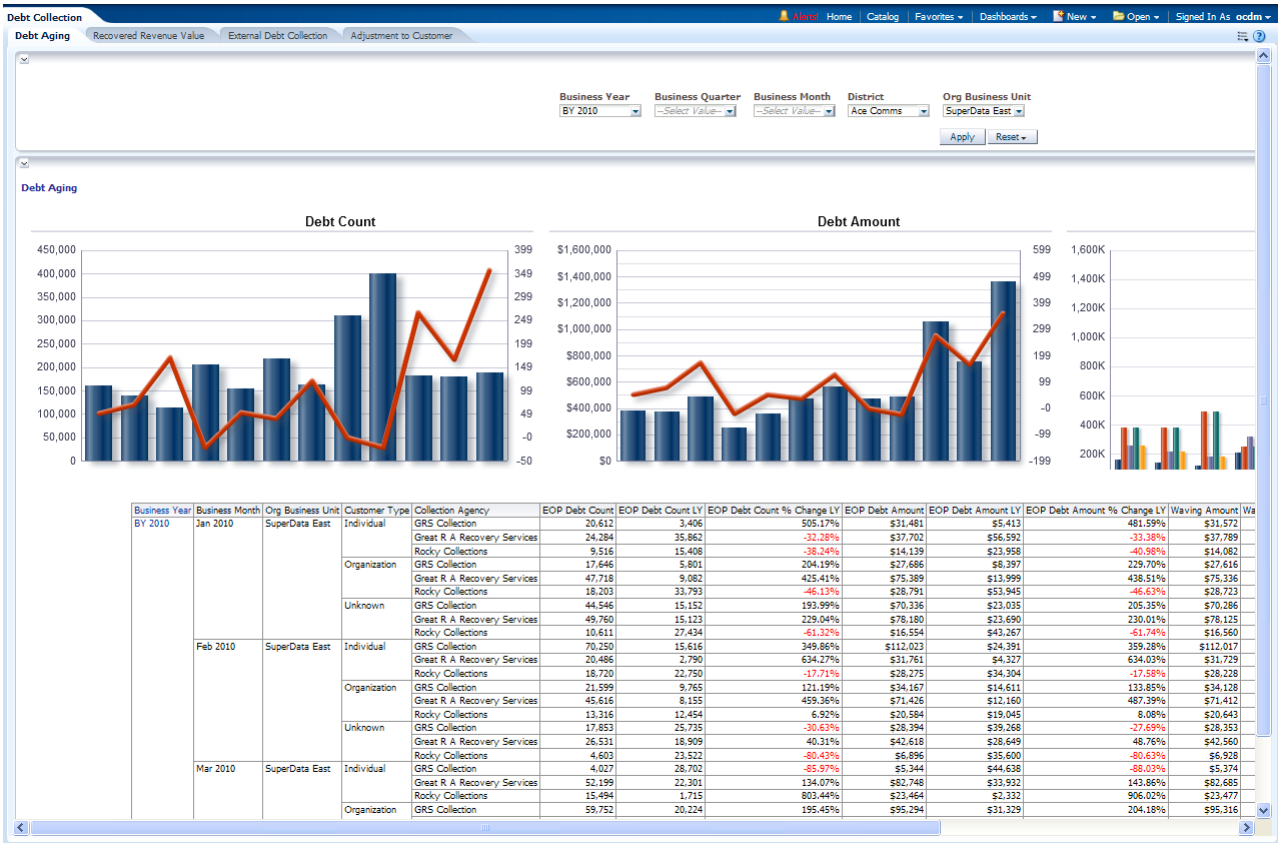
This report, as shown in Figure 12–35 generates debt aging details for the customers currently in debt.

Report dimensions are:

- Business Time
- Organization

- Debt Aging Band
- Customer Type
- Collection Agency

Figure 12–35 Debt Aging Report



Business Year	Business Month	Org Business Unit	Customer Type	Collection Agency	EOP Debt Count	EOP Debt Count LY	EOP Debt Count % Change LY	EOP Debt Amount	EOP Debt Amount LY	EOP Debt Amount % Change LY	Waving Amount	Wa
BY 2010	Jan 2010	SuperData East	Individual	GRS Collection	20,612	3,406	505.17%	$31,481	$5,413	481.59%	$31,572	
				Great R A Recovery Services	24,284	35,862	-32.28%	$37,702	$56,592	-33.38%	$37,789	
				Rocky Collections	9,516	15,408	-38.24%	$14,139	$23,958	-40.98%	$14,082	
			Organization	GRS Collection	17,646	5,801	204.19%	$27,686	$8,397	229.70%	$27,616	
				Great R A Recovery Services	47,718	9,082	425.41%	$75,389	$13,999	438.51%	$75,336	
				Rocky Collections	18,203	33,793	-46.13%	$28,791	$53,945	-46.63%	$28,723	
			Unknown	GRS Collection	44,546	15,152	193.99%	$70,336	$23,035	205.35%	$70,286	
				Great R A Recovery Services	49,760	15,123	229.04%	$78,180	$23,690	230.01%	$78,125	
				Rocky Collections	10,611	27,434	-61.32%	$16,554	$43,267	-61.74%	$16,560	
	Feb 2010	SuperData East	Individual	GRS Collection	70,250	15,616	349.86%	$112,023	$24,391	359.28%	$112,017	
				Great R A Recovery Services	20,486	2,790	634.27%	$31,761	$4,327	634.03%	$31,729	
				Rocky Collections	18,720	22,750	-17.71%	$28,275	$34,304	-17.58%	$28,228	
			Organization	GRS Collection	21,599	9,765	121.19%	$34,167	$14,611	133.85%	$34,128	
				Great R A Recovery Services	45,616	8,155	459.36%	$71,426	$12,160	487.39%	$71,412	
				Rocky Collections	13,316	12,454	6.92%	$20,584	$19,045	8.08%	$20,643	
			Unknown	GRS Collection	17,853	25,735	-30.63%	$28,394	$39,268	-27.69%	$28,353	
				Great R A Recovery Services	26,531	18,909	40.31%	$42,618	$28,649	48.76%	$42,560	
				Rocky Collections	4,603	23,522	-80.43%	$6,896	$35,600	-80.63%	$6,928	
	Mar 2010	SuperData East	Individual	GRS Collection	4,027	28,702	-85.97%	$5,344	$44,638	-88.03%	$5,374	
				Great R A Recovery Services	52,199	22,301	134.07%	$82,748	$33,932	143.86%	$82,685	
				Rocky Collections	15,494	1,715	803.44%	$23,464	$2,332	906.02%	$23,477	
			Organization	GRS Collection	59,752	20,224	195.45%	$95,294	$31,329	204.18%	$95,316	

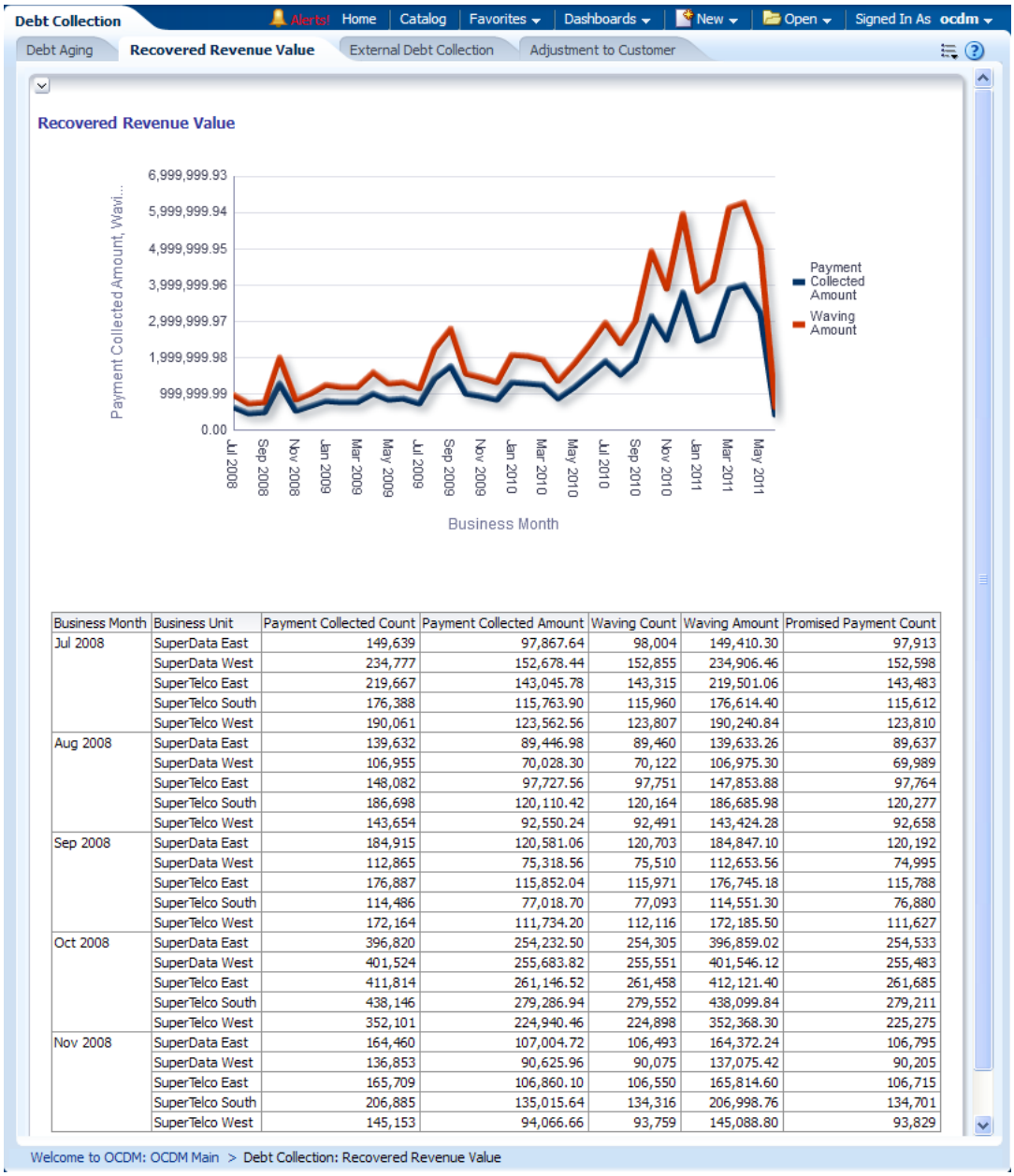
Recovered Revenue Value

This report, as shown in Figure 12–36 analyzes percentage of the recovered revenue value. After a certain period, if customer still cannot pay the bill, the collection begins. This report can analyze, for all collection amounts, how much is recovered and how much is abandoned.

Report dimensions are:

- Business Time
- Organization
- Collection Agency

Figure 12–36 Revenue Debt Collection Recovered Revenue Value Sample Report



Business Month	Business Unit	Payment Collected Count	Payment Collected Amount	Waving Count	Waving Amount	Promised Payment Count
Jul 2008	SuperData East	149,639	97,867.64	98,004	149,410.30	97,913
	SuperData West	234,777	152,678.44	152,855	234,906.46	152,598
	SuperTelco East	219,667	143,045.78	143,315	219,501.06	143,483
	SuperTelco South	176,388	115,763.90	115,960	176,614.40	115,612
	SuperTelco West	190,061	123,562.56	123,807	190,240.84	123,810
Aug 2008	SuperData East	139,632	89,446.98	89,460	139,633.26	89,637
	SuperData West	106,955	70,028.30	70,122	106,975.30	69,989
	SuperTelco East	148,082	97,727.56	97,751	147,853.88	97,764
	SuperTelco South	186,698	120,110.42	120,164	186,685.98	120,277
	SuperTelco West	143,654	92,550.24	92,491	143,424.28	92,658
Sep 2008	SuperData East	184,915	120,581.06	120,703	184,847.10	120,192
	SuperData West	112,865	75,318.56	75,510	112,653.56	74,995
	SuperTelco East	176,887	115,852.04	115,971	176,745.18	115,788
	SuperTelco South	114,486	77,018.70	77,093	114,551.30	76,880
	SuperTelco West	172,164	111,734.20	112,116	172,185.50	111,627
Oct 2008	SuperData East	396,820	254,232.50	254,305	396,859.02	254,533
	SuperData West	401,524	255,683.82	255,551	401,546.12	255,483
	SuperTelco East	411,814	261,146.52	261,458	412,121.40	261,685
	SuperTelco South	438,146	279,286.94	279,552	438,099.84	279,211
	SuperTelco West	352,101	224,940.46	224,898	352,368.30	225,275
Nov 2008	SuperData East	164,460	107,004.72	106,493	164,372.24	106,795
	SuperData West	136,853	90,625.96	90,075	137,075.42	90,205
	SuperTelco East	165,709	106,860.10	106,550	165,814.60	106,715
	SuperTelco South	206,885	135,015.64	134,316	206,998.76	134,701
	SuperTelco West	145,153	94,066.66	93,759	145,088.80	93,829

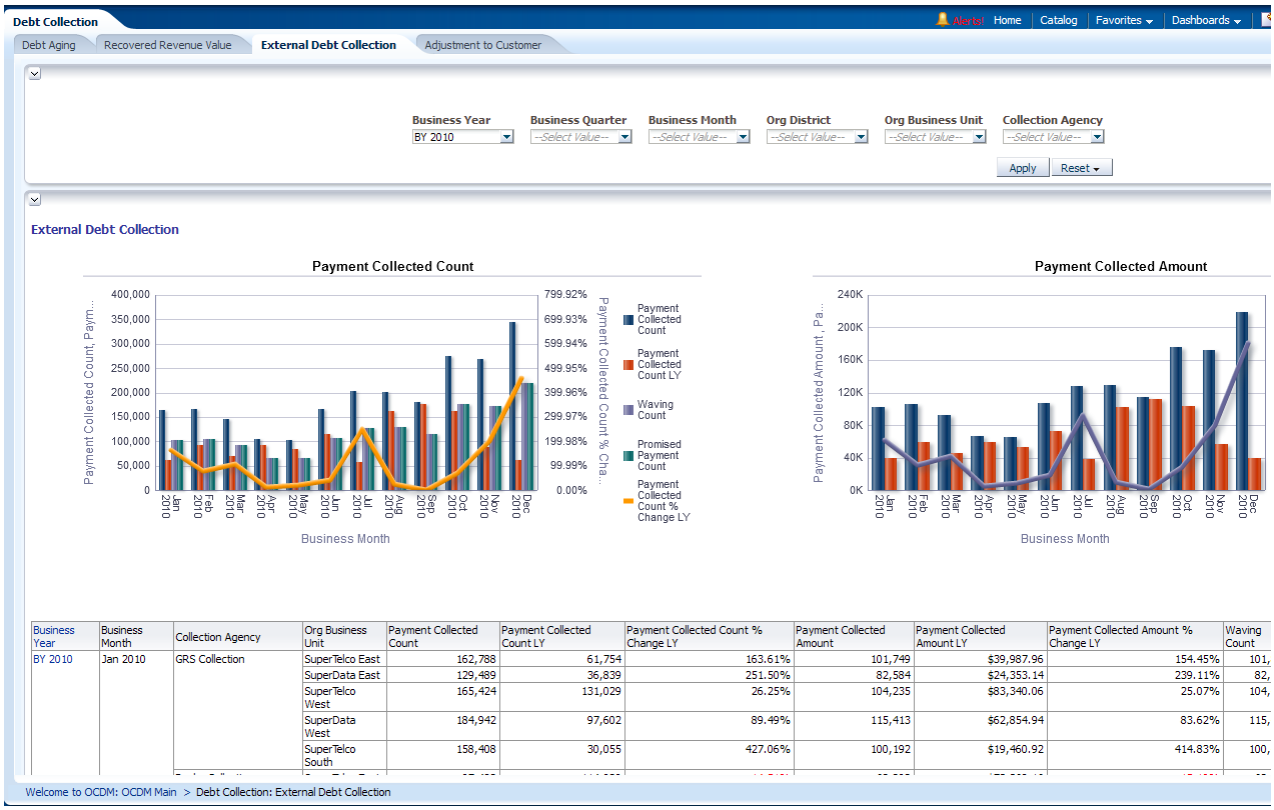
External Debt Collection

This report, as shown in Figure 12–37 shows collection agency wise debt collected amount waiving amount.

Report dimensions are:

- Business Time
- Organization
- Collection Agency

Figure 12–37 Revenue Debt Collection External Debt Collection Report



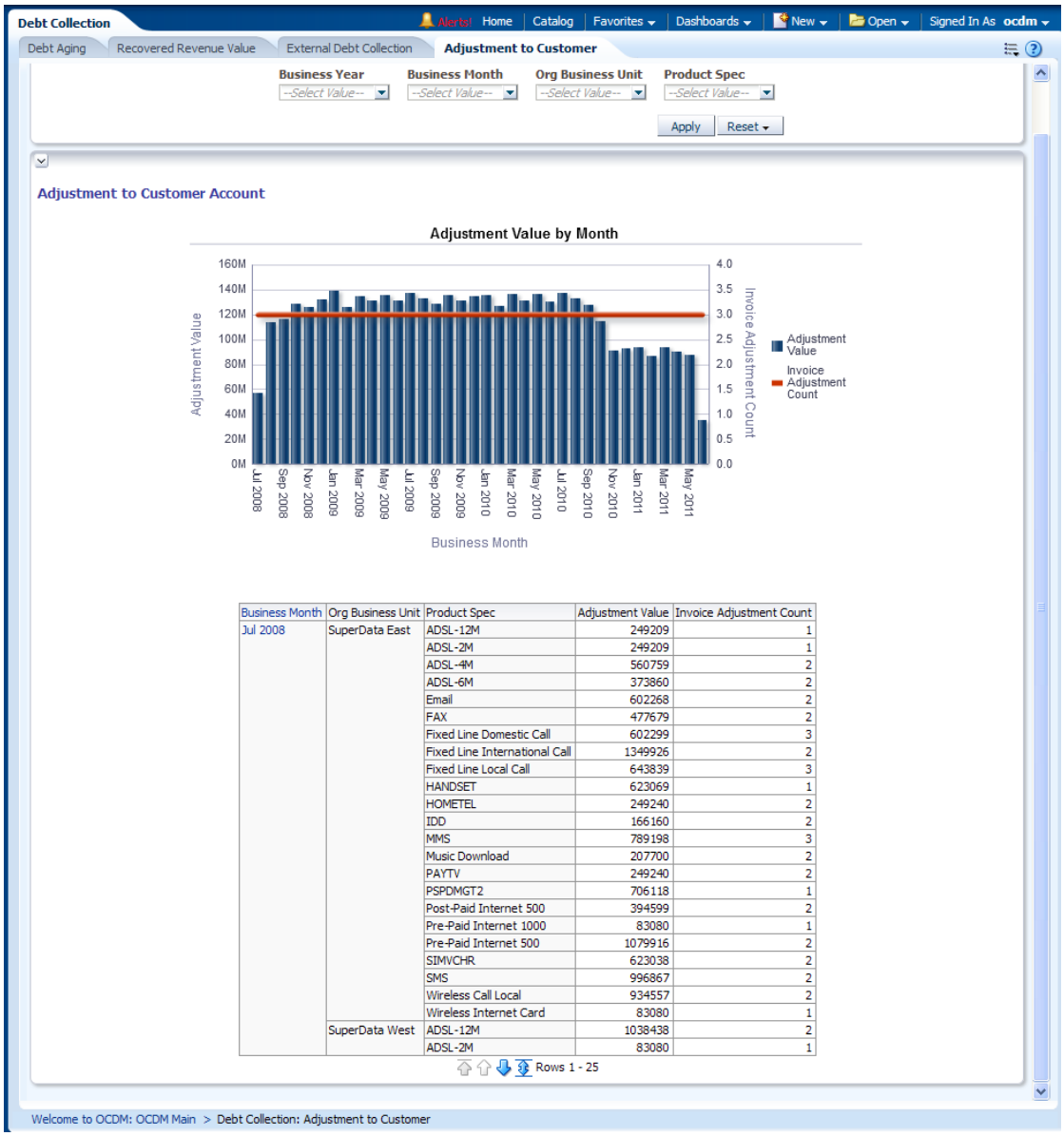
Adjustment to Customer

This report, as shown in Figure 12–38 describes the adjustment value and count for each product.

Report dimensions are:

- Business Time
- Product

Figure 12–38 Revenue Debt Collection Adjustment to Customer Report



Refund and Adjustment

This area includes the reports: Refund to Customer and Invoice Adjustment.

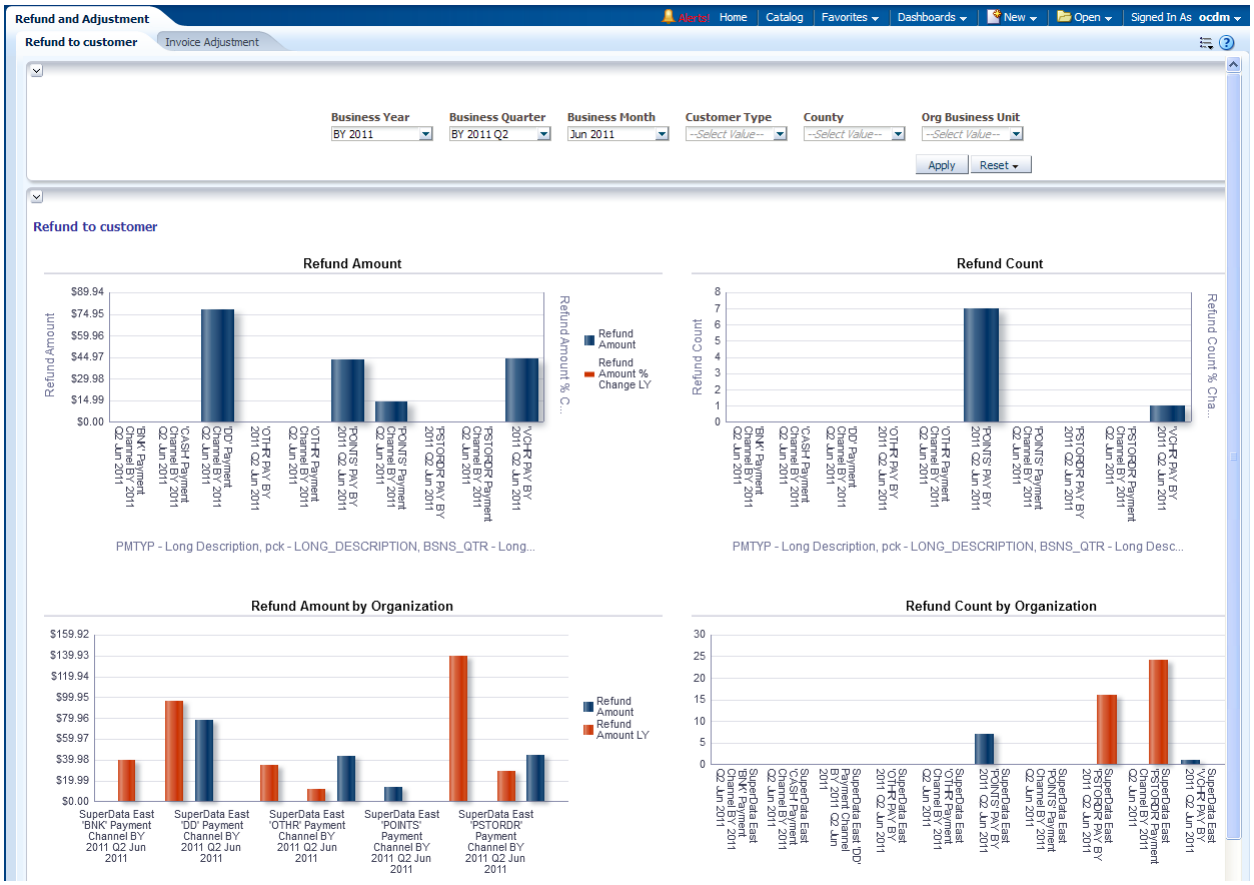
Refund to Customer

This report, as shown in Figure 12–39 provides summary information about all the refunds made to the customer. for one or more locations.

Report dimensions are:

- Business Time
- Customer Type
- Geography
- Organization

Figure 12–39 Revenue Refund and Adjustment Refund to Customer Report



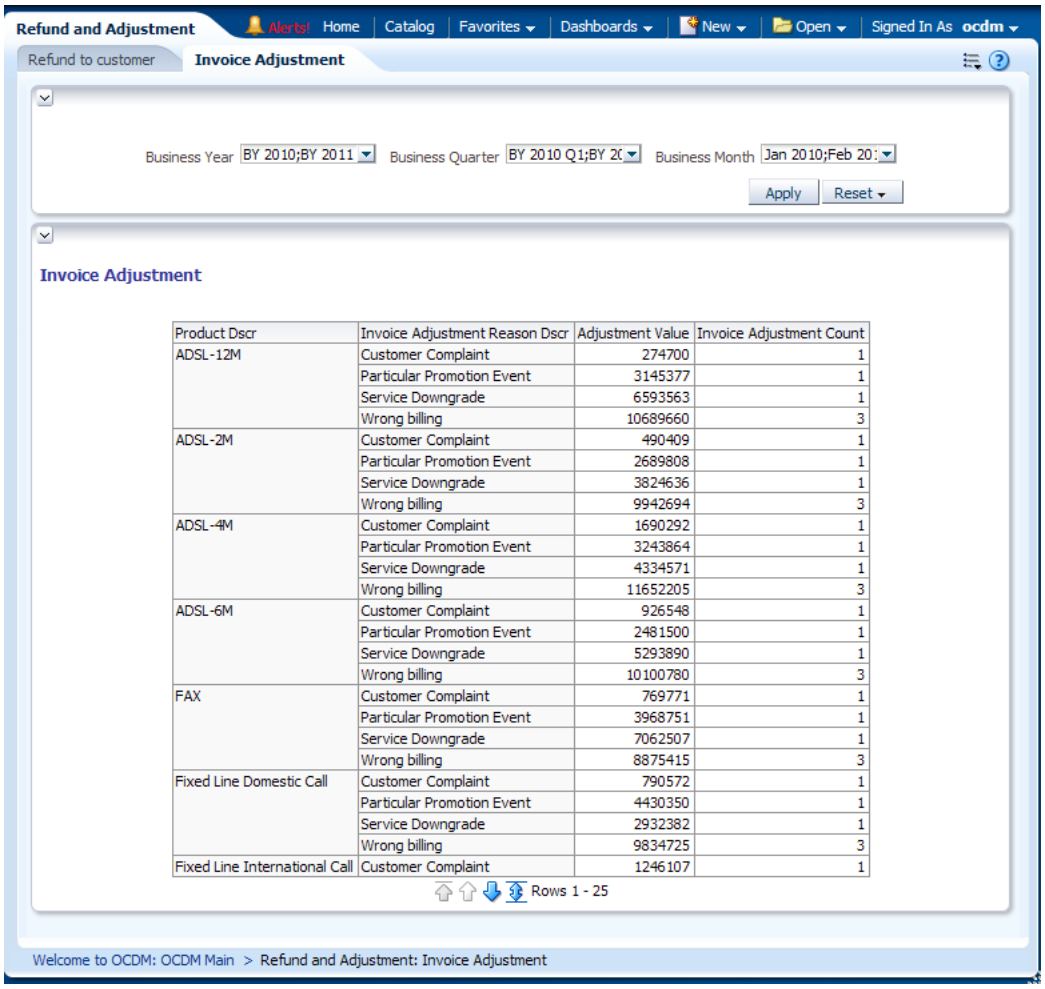
Invoice Adjustment

This report, as shown in Figure 12–40 describes adjustment value and count for each product.

Report dimensions are:

- Business Time
- Product

Figure 12–40 Invoice Adjustment Report



Product Dscr	Invoice Adjustment Reason Dscr	Adjustment Value	Invoice Adjustment Count
ADSL-12M	Customer Complaint	274700	1
	Particular Promotion Event	3145377	1
	Service Downgrade	6593563	1
	Wrong billing	10689660	3
ADSL-2M	Customer Complaint	490409	1
	Particular Promotion Event	2689808	1
	Service Downgrade	3824636	1
	Wrong billing	9942694	3
ADSL-4M	Customer Complaint	1690292	1
	Particular Promotion Event	3243864	1
	Service Downgrade	4334571	1
	Wrong billing	11652205	3
ADSL-6M	Customer Complaint	926548	1
	Particular Promotion Event	2481500	1
	Service Downgrade	5293890	1
	Wrong billing	10100780	3
FAX	Customer Complaint	769771	1
	Particular Promotion Event	3968751	1
	Service Downgrade	7062507	1
	Wrong billing	8875415	3
Fixed Line Domestic Call	Customer Complaint	790572	1
	Particular Promotion Event	4430350	1
	Service Downgrade	2932382	1
	Wrong billing	9834725	3
Fixed Line International Call	Customer Complaint	1246107	1

Customer Agreements

This area includes the reports: Customer Sum of Future Plans, Monthly Future Plan Drop-Out, and Monthly Contract Sum Loss.

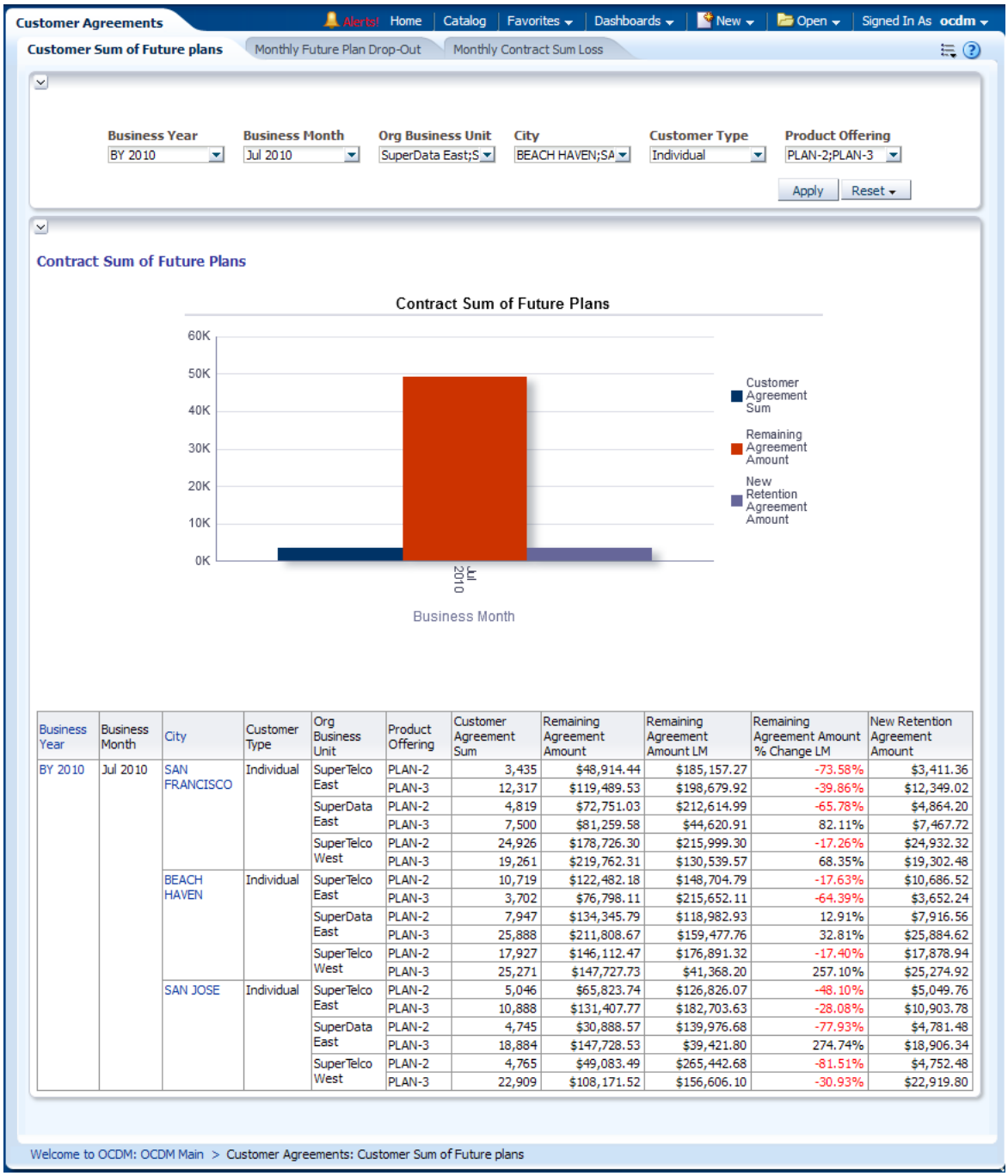
Customer Sum of Future Plans

This report, as shown in Figure 12–41 analyzes year and month level contract sum of future plans for the customer type based on LM, % Change LM. The future plan are those contracts customer already signed but not started yet. For example, if today is Feb 20th 2011, and customer may sign a contract starting at Apr 1st 2011 for one year. This is called a Future plan.

Report dimensions are:

- Business Time
- Organization
- Product
- Geography
- Customer

Figure 12–41 Revenue Customer Agreements Customer Sum of Future Plans Report



Business Year	Business Month	City	Customer Type	Org Business Unit	Product Offering	Customer Agreement Sum	Remaining Agreement Amount	Remaining Agreement Amount LM	Remaining Agreement Amount % Change LM	New Retention Agreement Amount
BY 2010	Jul 2010	SAN FRANCISCO	Individual	SuperTelco East	PLAN-2	3,435	$48,914.44	$185,157.27	-73.58%	$3,411.36
					PLAN-3	12,317	$119,489.53	$198,679.92	-39.86%	$12,349.02
				SuperData East	PLAN-2	4,819	$72,751.03	$212,614.99	-65.78%	$4,864.20
					PLAN-3	7,500	$81,259.58	$44,620.91	82.11%	$7,467.72
				SuperTelco West	PLAN-2	24,926	$178,726.30	$215,999.30	-17.26%	$24,932.32
					PLAN-3	19,261	$219,762.31	$130,539.57	68.35%	$19,302.48
		BEACH HAVEN	Individual	SuperTelco East	PLAN-2	10,719	$122,482.18	$148,704.79	-17.63%	$10,686.52
					PLAN-3	3,702	$76,798.11	$215,652.11	-64.39%	$3,652.24
				SuperData East	PLAN-2	7,947	$134,345.79	$118,982.93	12.91%	$7,916.56
					PLAN-3	25,888	$211,808.67	$159,477.76	32.81%	$25,884.62
				SuperTelco West	PLAN-2	17,927	$146,112.47	$176,891.32	-17.40%	$17,878.94
					PLAN-3	25,271	$147,727.73	$41,368.20	257.10%	$25,274.92
		SAN JOSE	Individual	SuperTelco East	PLAN-2	5,046	$65,823.74	$126,826.07	-48.10%	$5,049.76
					PLAN-3	10,888	$131,407.77	$182,703.63	-28.08%	$10,903.78
				SuperData East	PLAN-2	4,745	$30,888.57	$139,976.68	-77.93%	$4,781.48
					PLAN-3	18,884	$147,728.53	$39,421.80	274.74%	$18,906.34
				SuperTelco West	PLAN-2	4,765	$49,083.49	$265,442.68	-81.51%	$4,752.48
					PLAN-3	22,909	$108,171.52	$156,606.10	-30.93%	$22,919.80

Monthly Future Plan Drop-Out

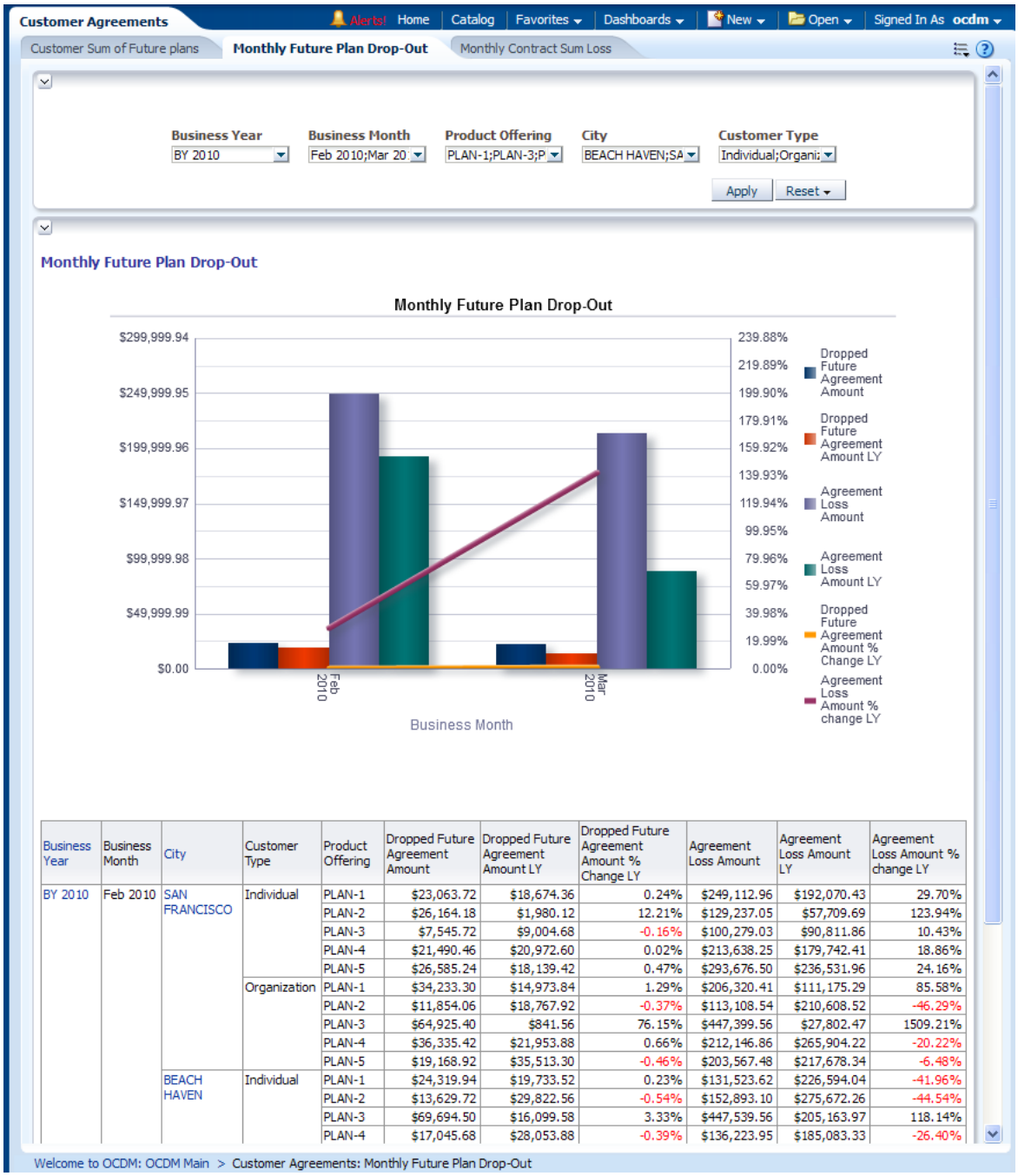
This report, as shown in Figure 12–42 describes product offering wise dropped contract amount and contract loss amount.

Report dimensions are:

- Business Time
- Customer Type
- Product

- Customer

Figure 12–42 Revenue Customer Agreements Monthly Future Plan Drop-Out Report



Business Year	Business Month	City	Customer Type	Product Offering	Dropped Future Agreement Amount	Dropped Future Agreement Amount LY	Dropped Future Agreement Amount % Change LY	Agreement Loss Amount	Agreement Loss Amount LY	Agreement Loss Amount % change LY
BY 2010	Feb 2010	SAN FRANCISCO	Individual	PLAN-1	$23,063.72	$18,674.36	0.24%	$249,112.96	$192,070.43	29.70%
				PLAN-2	$26,164.18	$1,980.12	12.21%	$129,237.05	$57,709.69	123.94%
				PLAN-3	$7,545.72	$9,004.68	-0.16%	$100,279.03	$90,811.86	10.43%
				PLAN-4	$21,490.46	$20,972.60	0.02%	$213,638.25	$179,742.41	18.86%
				PLAN-5	$26,585.24	$18,139.42	0.47%	$293,676.50	$236,531.96	24.16%
			Organization	PLAN-1	$34,233.30	$14,973.84	1.29%	$206,320.41	$111,175.29	85.58%
				PLAN-2	$11,854.06	$18,767.92	-0.37%	$113,108.54	$210,608.52	-46.29%
				PLAN-3	$64,925.40	$841.56	76.15%	$447,399.56	$27,802.47	1509.21%
				PLAN-4	$36,335.42	$21,953.88	0.66%	$212,146.86	$265,904.22	-20.22%
				PLAN-5	$19,168.92	$35,513.30	-0.46%	$203,567.48	$217,678.34	-6.48%
		BEACH HAVEN	Individual	PLAN-1	$24,319.94	$19,733.52	0.23%	$131,523.62	$226,594.04	-41.96%
				PLAN-2	$13,629.72	$29,822.56	-0.54%	$152,893.10	$275,672.26	-44.54%
				PLAN-3	$69,694.50	$16,099.58	3.33%	$447,539.56	$205,163.97	118.14%
				PLAN-4	$17,045.68	$28,053.88	-0.39%	$136,223.95	$185,083.33	-26.40%

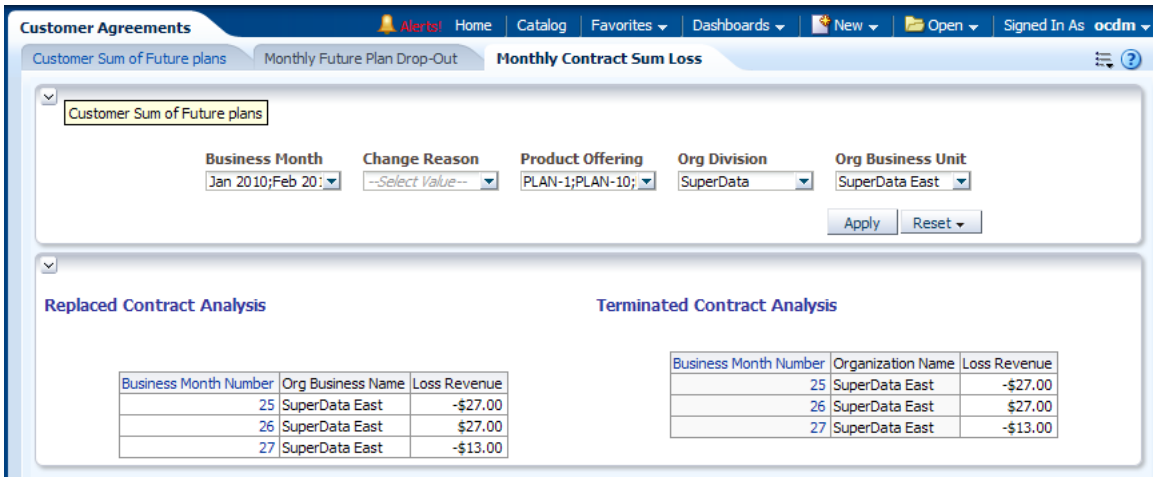
Monthly Contract Sum Loss

This report, as shown in Figure 12–43 shows month level replaced contract analysis and terminated contract analysis. If a customer downgrades their subscription, for example, using a new USD 186 package to replace original USD286 package, this is deemed as a contract loss in "replaced contract analysis".

Report dimensions are:

- Business Time
- Organization
- Product
- Customer

Figure 12–43 Revenue Customer Agreements Monthly Contract Sum Loss Report



Product Specification Management Reports

The product specification management reports include the following areas:

- Product Management
- Average Profit per Customer

Product Management

This area includes the report Product Performance.

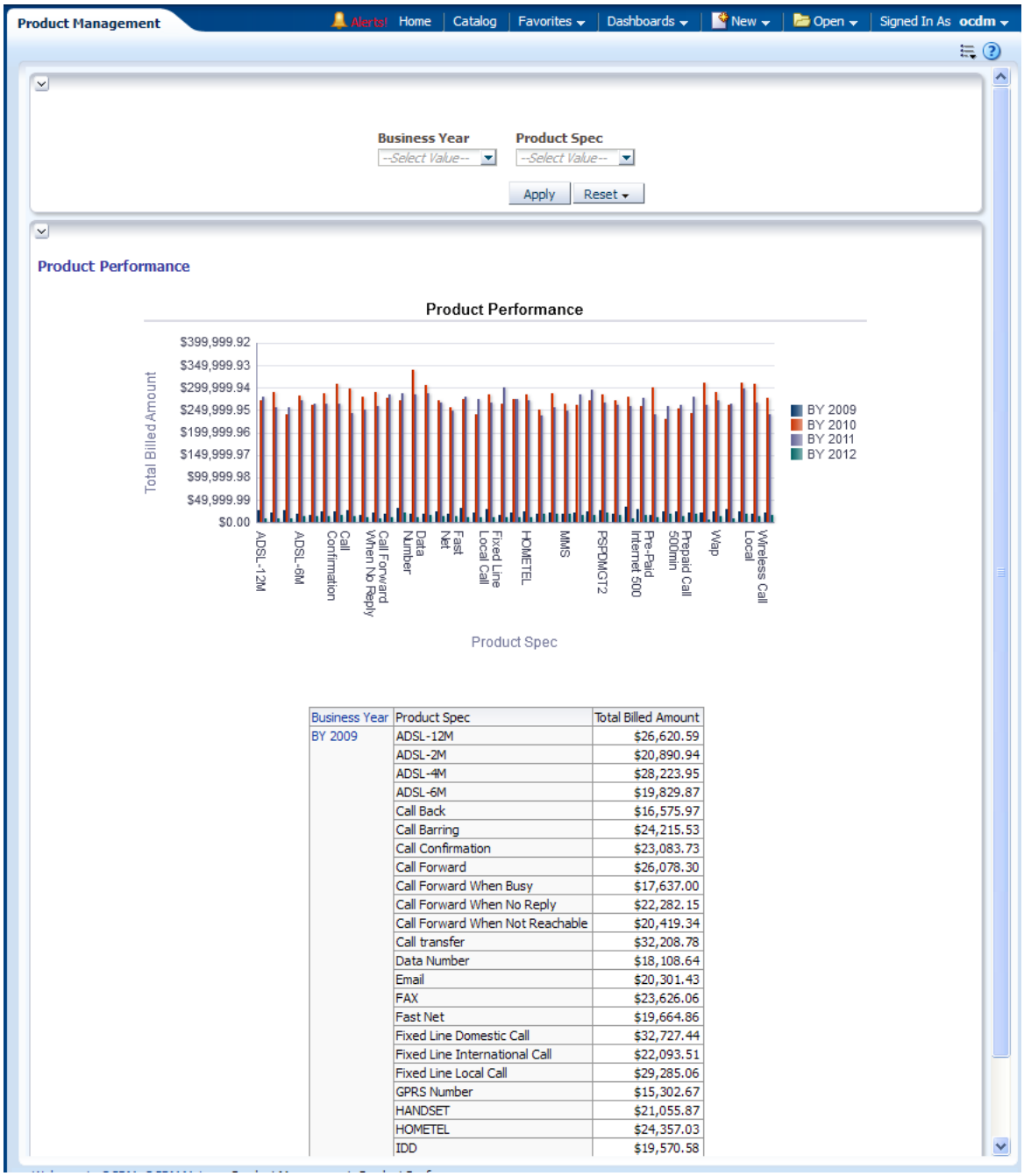
Product Performance

This report, as shown in Figure 12–44 provides year-level transaction activity information based on total bill amount measures, for one or more products.

Report dimensions are:

- Business Time
- Product

Figure 12–44 Product Performance Report



Business Year	Product Spec	Total Billed Amount
BY 2009	ADSL-12M	$26,620.59
	ADSL-2M	$20,890.94
	ADSL-4M	$28,223.95
	ADSL-6M	$19,829.87
	Call Back	$16,575.97
	Call Barring	$24,215.53
	Call Confirmation	$23,083.73
	Call Forward	$26,078.30
	Call Forward When Busy	$17,637.00
	Call Forward When No Reply	$22,282.15
	Call Forward When Not Reachable	$20,419.34
	Call transfer	$32,208.78
	Data Number	$18,108.64
	Email	$20,301.43
	FAX	$23,626.06
	Fast Net	$19,664.86
	Fixed Line Domestic Call	$32,727.44
	Fixed Line International Call	$22,093.51
	Fixed Line Local Call	$29,285.06
	GPRS Number	$15,302.67
	HANDSET	$21,055.87
	HOMETEL	$24,357.03
	IDD	$19,570.58

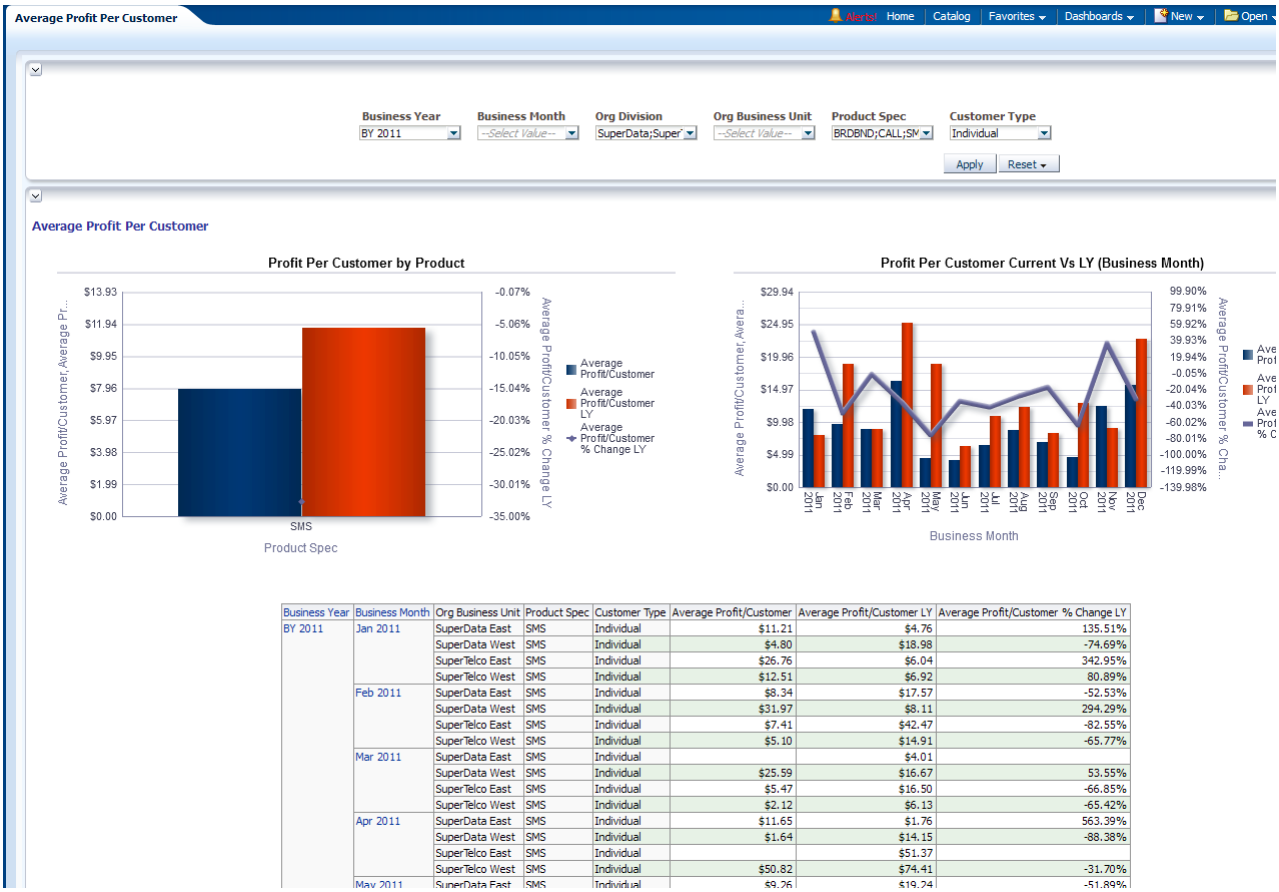
Average Profit per Customer

This report, as shown in Figure 12–45 shows average profit per customer.

Report dimensions are:

- Business Time
- Organization
- Product
- Customer

Figure 12–45 Average Profit Per Customer



Business Year	Business Month	Org Business Unit	Product Spec	Customer Type	Average Profit/Customer	Average Profit/Customer LY	Average Profit/Customer % Change LY
BY 2011	Jan 2011	SuperData East	SMS	Individual	$11.21	$4.76	135.51%
		SuperData West	SMS	Individual	$4.80	$18.98	-74.69%
		SuperTelco East	SMS	Individual	$26.76	$6.04	342.95%
		SuperTelco West	SMS	Individual	$12.51	$6.92	80.89%
	Feb 2011	SuperData East	SMS	Individual	$8.34	$17.57	-52.53%
		SuperData West	SMS	Individual	$31.97	$8.11	294.29%
		SuperTelco East	SMS	Individual	$7.41	$42.47	-82.55%
		SuperTelco West	SMS	Individual	$5.10	$14.91	-65.77%
	Mar 2011	SuperData East	SMS	Individual		$4.01	
		SuperData West	SMS	Individual	$25.59	$16.67	53.55%
		SuperTelco East	SMS	Individual	$5.47	$16.50	-66.85%
		SuperTelco West	SMS	Individual	$2.12	$6.13	-65.42%
	Apr 2011	SuperData East	SMS	Individual	$11.65	$1.76	563.39%
		SuperData West	SMS	Individual	$1.64	$14.15	-88.38%
		SuperTelco East	SMS	Individual		$51.37	
		SuperTelco West	SMS	Individual	$50.82	$74.41	-31.70%
	May 2011	SuperData East	SMS	Individual	$9.26	$19.24	-51.89%

Provisioning and Activation Reports

The provisioning and activation reports show the following areas:

- Activations and Services
- Customer Order Analysis

Activations and Services

This area includes the report Activation and Service Orders.

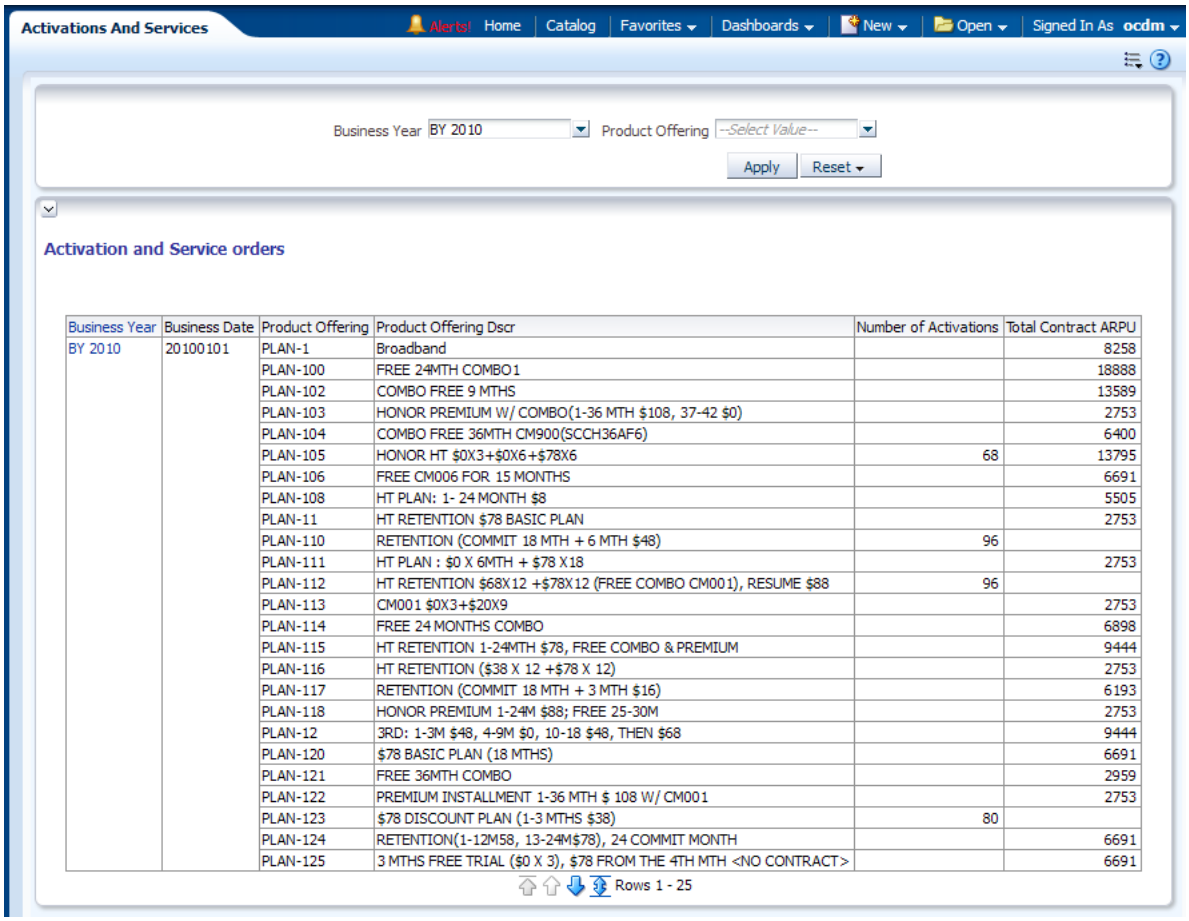
Activation and Service Orders

This report, as shown in Figure 12–46 provides business year and business date-level transaction activity information based on contract ARPU.

Report dimensions are:

- Business Time
- Product Specification

Figure 12–46 Activation and Service Orders Report



Business Year	Business Date	Product Offering	Product Offering Dscr	Number of Activations	Total Contract ARPU
BY 2010	20100101	PLAN-1	Broadband		8258
		PLAN-100	FREE 24MTH COMBO1		18888
		PLAN-102	COMBO FREE 9 MTHS		13589
		PLAN-103	HONOR PREMIUM W/ COMBO(1-36 MTH $108, 37-42 $0)		2753
		PLAN-104	COMBO FREE 36MTH CM900(SCCH36AF6)		6400
		PLAN-105	HONOR HT $0X3+$0X6+$78X6	68	13795
		PLAN-106	FREE CM006 FOR 15 MONTHS		6691
		PLAN-108	HT PLAN: 1- 24 MONTH $8		5505
		PLAN-11	HT RETENTION $78 BASIC PLAN		2753
		PLAN-110	RETENTION (COMMIT 18 MTH + 6 MTH $48)	96	
		PLAN-111	HT PLAN : $0 X 6MTH + $78 X18		2753
		PLAN-112	HT RETENTION $68X12 +$78X12 (FREE COMBO CM001), RESUME $88	96	
		PLAN-113	CM001 $0X3+$20X9		2753
		PLAN-114	FREE 24 MONTHS COMBO		6898
		PLAN-115	HT RETENTION 1-24MTH $78, FREE COMBO & PREMIUM		9444
		PLAN-116	HT RETENTION ($38 X 12 +$78 X 12)		2753
		PLAN-117	RETENTION (COMMIT 18 MTH + 3 MTH $16)		6193
		PLAN-118	HONOR PREMIUM 1-24M $88; FREE 25-30M		2753
		PLAN-12	3RD: 1-3M $48, 4-9M $0, 10-18 $48, THEN $68		9444
		PLAN-120	$78 BASIC PLAN (18 MTHS)		6691
		PLAN-121	FREE 36MTH COMBO		2959
		PLAN-122	PREMIUM INSTALLMENT 1-36 MTH $ 108 W/ CM001		2753
		PLAN-123	$78 DISCOUNT PLAN (1-3 MTHS $38)	80	
		PLAN-124	RETENTION(1-12M58, 13-24M$78), 24 COMMIT MONTH		6691
		PLAN-125	3 MTHS FREE TRIAL ($0 X 3), $78 FROM THE 4TH MTH <NO CONTRACT>		6691

Customer Order Analysis

This area includes the report: Order Volume by Order Status, Order Volume by Order Type, Order Volume by Product Specification, Order Change per Quarter, Order Volume by Product Specification Type, and Fall Out Rate by Product Specification Type.

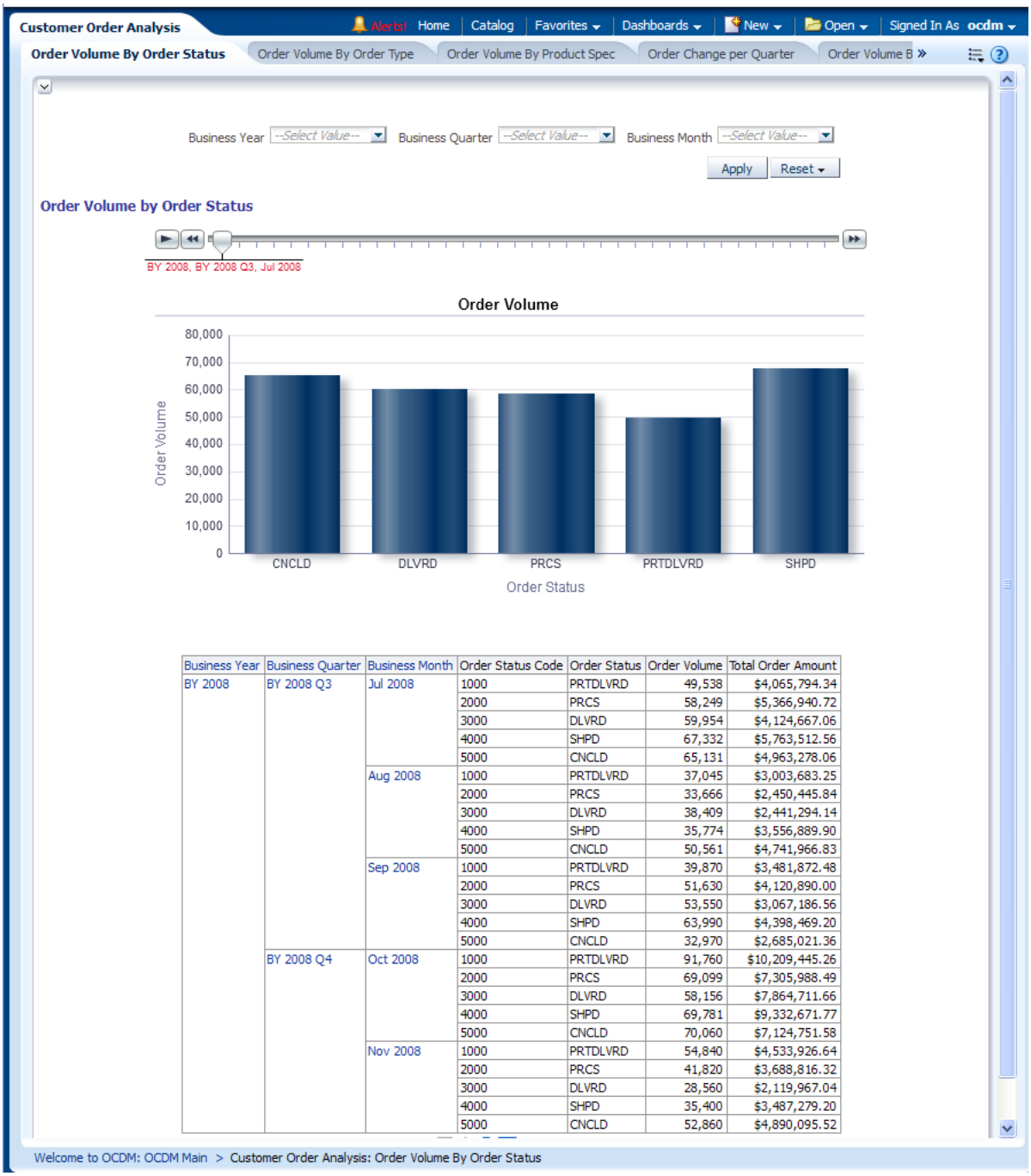
Order Volume by Order Status

This as shown in Figure 12–47, provides business year, business quarter, and business month-level information based on order volume by order status.

Report dimensions are:

- Business Time

Figure 12–47 Customer Order Analysis Order Volume by Order Status



Business Year	Business Quarter	Business Month	Order Status Code	Order Status	Order Volume	Total Order Amount
BY 2008	BY 2008 Q3	Jul 2008	1000	PRTDLVRD	49,538	$4,065,794.34
			2000	PRCS	58,249	$5,366,940.72
			3000	DLVRD	59,954	$4,124,667.06
			4000	SHPD	67,332	$5,763,512.56
			5000	CNCLD	65,131	$4,963,278.06
		Aug 2008	1000	PRTDLVRD	37,045	$3,003,683.25
			2000	PRCS	33,666	$2,450,445.84
			3000	DLVRD	38,409	$2,441,294.14
			4000	SHPD	35,774	$3,556,889.90
			5000	CNCLD	50,561	$4,741,966.83
		Sep 2008	1000	PRTDLVRD	39,870	$3,481,872.48
			2000	PRCS	51,630	$4,120,890.00
			3000	DLVRD	53,550	$3,067,186.56
			4000	SHPD	63,990	$4,398,469.20
			5000	CNCLD	32,970	$2,685,021.36
	BY 2008 Q4	Oct 2008	1000	PRTDLVRD	91,760	$10,209,445.26
			2000	PRCS	69,099	$7,305,988.49
			3000	DLVRD	58,156	$7,864,711.66
			4000	SHPD	69,781	$9,332,671.77
			5000	CNCLD	70,060	$7,124,751.58
		Nov 2008	1000	PRTDLVRD	54,840	$4,533,926.64
			2000	PRCS	41,820	$3,688,816.32
			3000	DLVRD	28,560	$2,119,967.04
			4000	SHPD	35,400	$3,487,279.20
			5000	CNCLD	52,860	$4,890,095.52

Order Volume by Order Type

This report, as shown in Figure 12–48 provides business year, business quarter, and business month-level information based on order volume by order type.

Report dimensions are:

- Business Time

Figure 12–48 Customer Order Analysis Order Volume by Order Type Report

Business Year	Business Quarter	Business Month	Order Type Code	Order Type Name	Order Volume	Total Order Amount
BY 2008	BY 2008 Q3	Jul 2008	ACCSRSSL	Accessories Sale	90,272	$6,404,405.32
			BRDBND	New Broadband Setup	62,651	$4,990,174.90
			PRPDWRLS	New Prepaid Wireless Account	62,279	$4,968,965.45
			PSTPWRLS	New Postpaid Wireless Account	53,506	$4,200,565.22
		Aug 2008	ACCSRSSL	Accessories Sale	39,804	$3,693,504.42
			BRDBND	New Broadband Setup	42,718	$3,799,912.79
			PRPDWRLS	New Prepaid Wireless Account	56,327	$5,036,943.49
			PSTPWRLS	New Postpaid Wireless Account	52,173	$3,628,077.56
		Sep 2008	ACCSRSSL	Accessories Sale	52,800	$5,338,630.56
			BRDBND	New Broadband Setup	53,550	$4,242,830.88
			PRPDWRLS	New Prepaid Wireless Account	55,710	$4,077,654.24
			PSTPWRLS	New Postpaid Wireless Account	61,740	$3,976,158.96
	BY 2008 Q4	Oct 2008	ACCSRSSL	Accessories Sale	105,307	$10,992,633.48
			BRDBND	New Broadband Setup	99,076	$10,535,671.90
			PRPDWRLS	New Prepaid Wireless Account	89,249	$9,209,741.14
			PSTPWRLS	New Postpaid Wireless Account	56,358	$8,652,124.06
		Nov 2008	ACCSRSSL	Accessories Sale	44,790	$3,886,453.92
			BRDBND	New Broadband Setup	38,790	$3,989,916.00
			PRPDWRLS	New Prepaid Wireless Account	55,650	$4,041,294.72
			PSTPWRLS	New Postpaid Wireless Account	69,060	$5,324,167.92
		Dec 2008	ACCSRSSL	Accessories Sale	56,234	$5,790,003.92
			BRDBND	New Broadband Setup	52,049	$4,139,369.98
			PRPDWRLS	New Prepaid Wireless Account	61,659	$6,319,083.65
			PSTPWRLS	New Postpaid Wireless Account	82,956	$7,779,490.92
BY 2009	BY 2009 Q1	Jan 2009	ACCSRSSL	Accessories Sale	48,608	$4,509,219.08

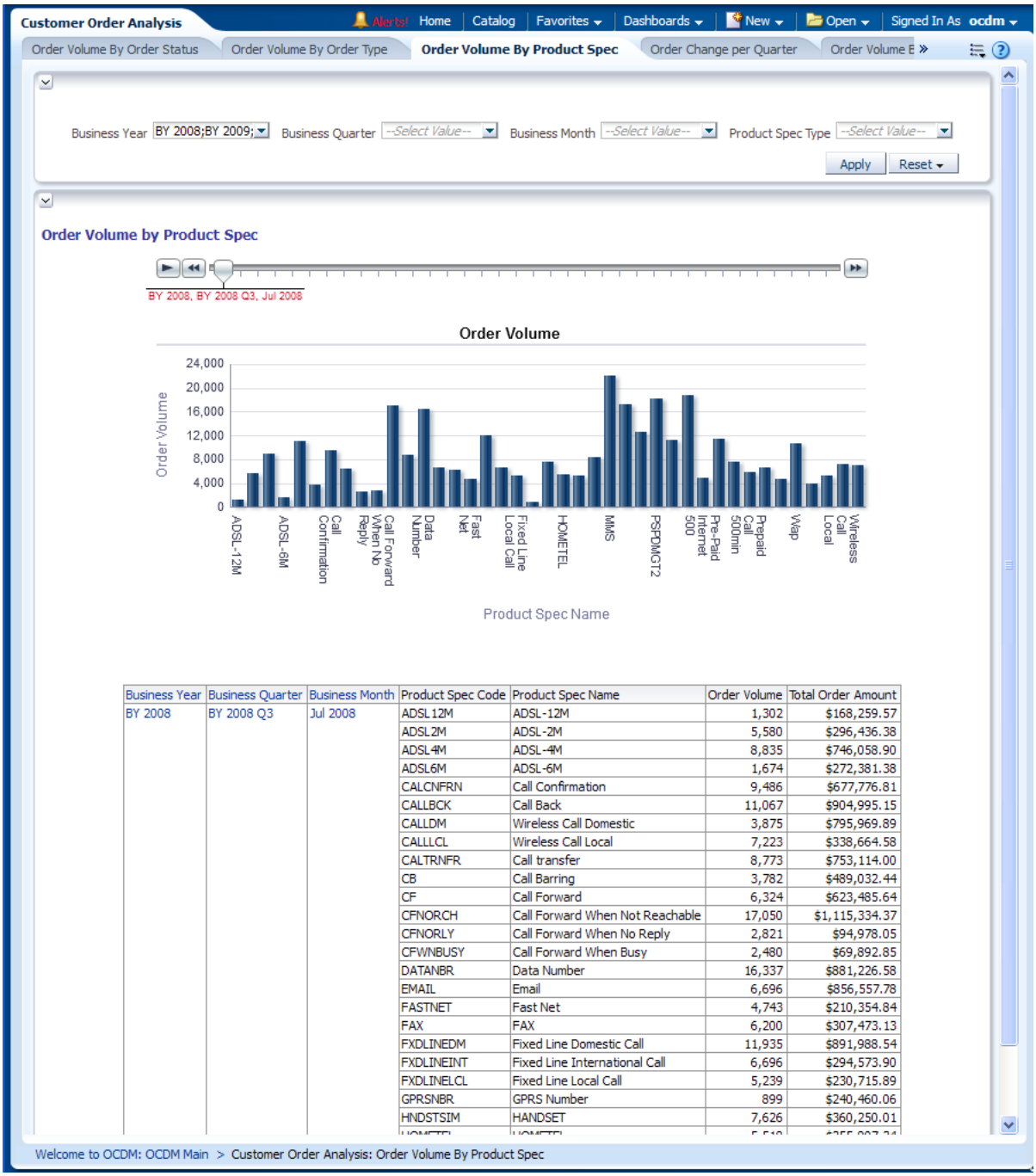
Order Volume by Product Specification

This report, as shown in Figure 12–49 business year, business quarter, and business month-level information based on order volume by product.

Report dimensions are:

- Business Time
- Product Specification

Figure 12–49 Customer Order Analysis Order Volume by Product Specification Report



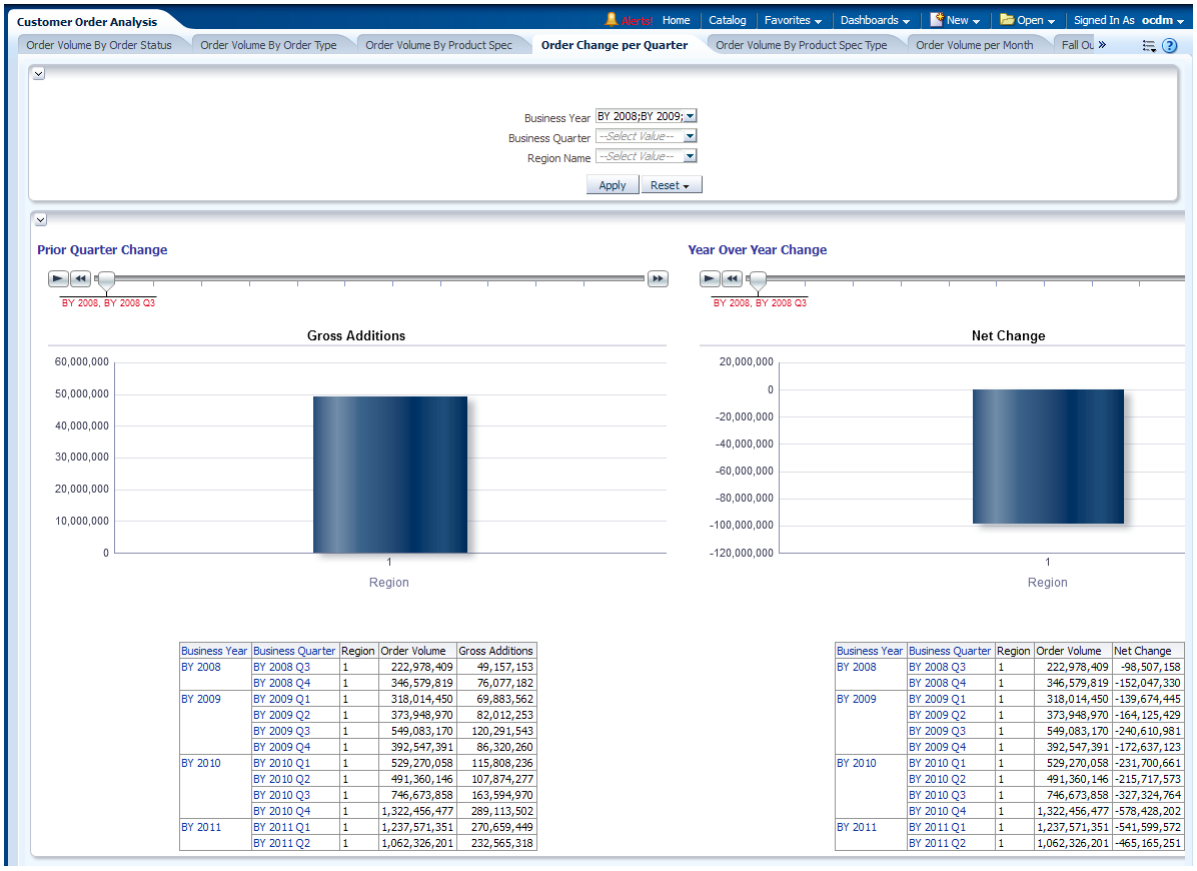
Order Change per Quarter

This report, as shown in Figure 12–50 provides business year, business quarter-level information based on order volume change per quarter.

Report dimensions are:

- Business Time
- Product Specification Type

Figure 12–50 Customer Order Analysis Prior Quarter Change Report



Business Year	Business Quarter	Region	Order Volume	Gross Additions
BY 2008	BY 2008 Q3	1	222,978,409	49,157,153
	BY 2008 Q4	1	346,579,819	76,077,182
BY 2009	BY 2009 Q1	1	318,014,450	69,883,562
	BY 2009 Q2	1	373,948,970	82,012,253
	BY 2009 Q3	1	549,083,170	120,291,543
	BY 2009 Q4	1	392,547,391	86,320,260
BY 2010	BY 2010 Q1	1	529,270,058	115,808,236
	BY 2010 Q2	1	491,360,146	107,874,277
	BY 2010 Q3	1	746,673,858	163,594,970
	BY 2010 Q4	1	1,322,456,477	289,113,502
BY 2011	BY 2011 Q1	1	1,237,571,351	270,659,449
	BY 2011 Q2	1	1,062,326,201	232,565,318

Business Year	Business Quarter	Region	Order Volume	Net Change
BY 2008	BY 2008 Q3	1	222,978,409	-98,507,158
	BY 2008 Q4	1	346,579,819	-152,047,330
BY 2009	BY 2009 Q1	1	318,014,450	-139,674,445
	BY 2009 Q2	1	373,948,970	-164,125,429
	BY 2009 Q3	1	549,083,170	-240,610,981
	BY 2009 Q4	1	392,547,391	-172,637,123
BY 2010	BY 2010 Q1	1	529,270,058	-231,700,661
	BY 2010 Q2	1	491,360,146	-215,717,573
	BY 2010 Q3	1	746,673,858	-327,324,764
	BY 2010 Q4	1	1,322,456,477	-578,428,202
BY 2011	BY 2011 Q1	1	1,237,571,351	-541,599,572
	BY 2011 Q2	1	1,062,326,201	-465,165,251

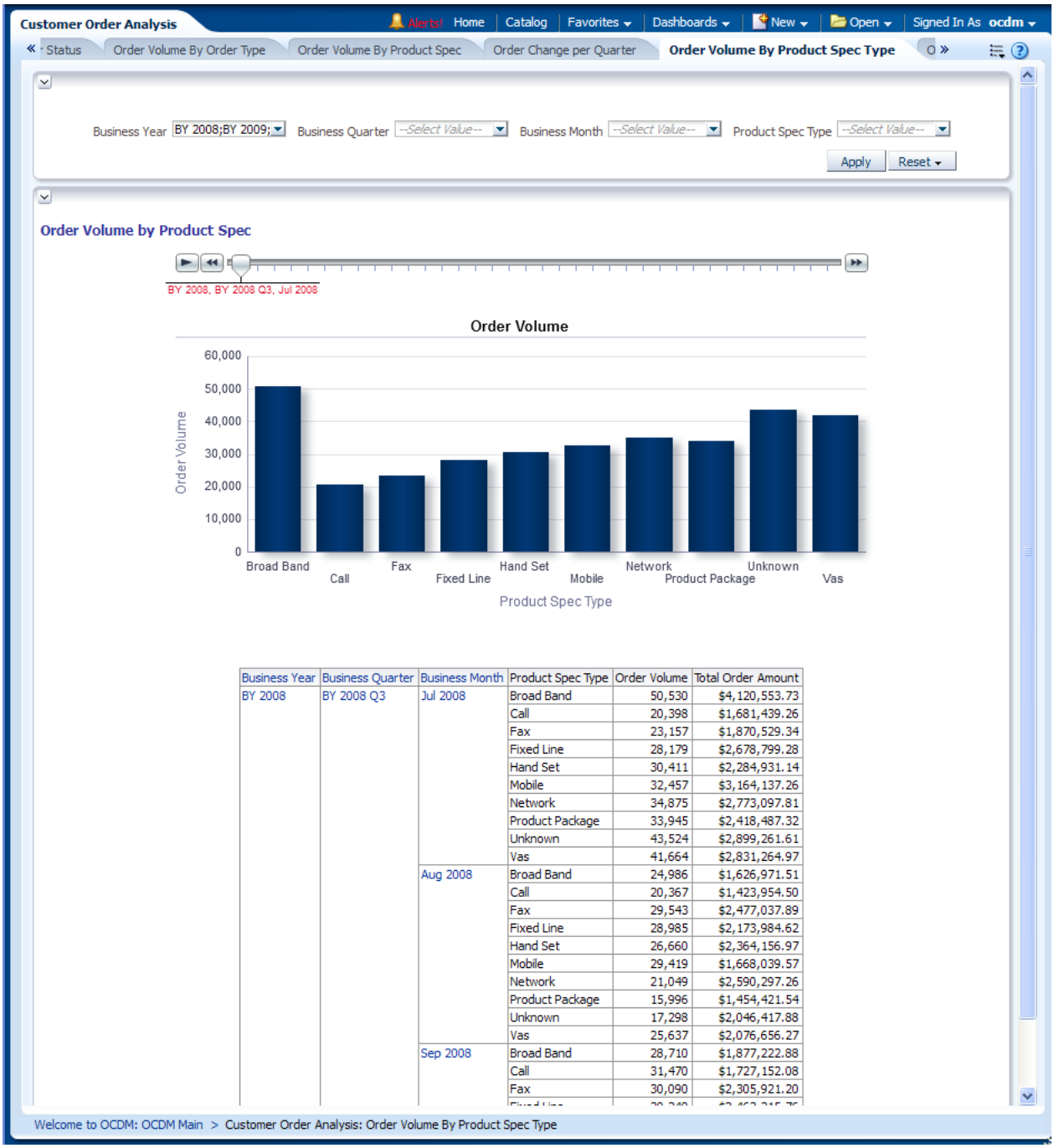
Order Volume by Product Specification Type

This report, as shown in Figure 12–51 provides business year, business quarter, and business month-level information based on order volume by product type.

Report dimensions are:

- Business Time

Figure 12–51 Customer Order Analysis Order Volume by Product Specification Type Report



Business Year	Business Quarter	Business Month	Product Spec Type	Order Volume	Total Order Amount
BY 2008	BY 2008 Q3	Jul 2008	Broad Band	50,530	$4,120,553.73
			Call	20,398	$1,681,439.26
			Fax	23,157	$1,870,529.34
			Fixed Line	28,179	$2,678,799.28
			Hand Set	30,411	$2,284,931.14
			Mobile	32,457	$3,164,137.26
			Network	34,875	$2,773,097.81
			Product Package	33,945	$2,418,487.32
			Unknown	43,524	$2,899,261.61
			Vas	41,664	$2,831,264.97
		Aug 2008	Broad Band	24,986	$1,626,971.51
			Call	20,367	$1,423,954.50
			Fax	29,543	$2,477,037.89
			Fixed Line	28,985	$2,173,984.62
			Hand Set	26,660	$2,364,156.97
			Mobile	29,419	$1,668,039.57
			Network	21,049	$2,590,297.26
			Product Package	15,996	$1,454,421.54
			Unknown	17,298	$2,046,417.88
			Vas	25,637	$2,076,656.27
		Sep 2008	Broad Band	28,710	$1,877,222.88
			Call	31,470	$1,727,152.08
			Fax	30,090	$2,305,921.20

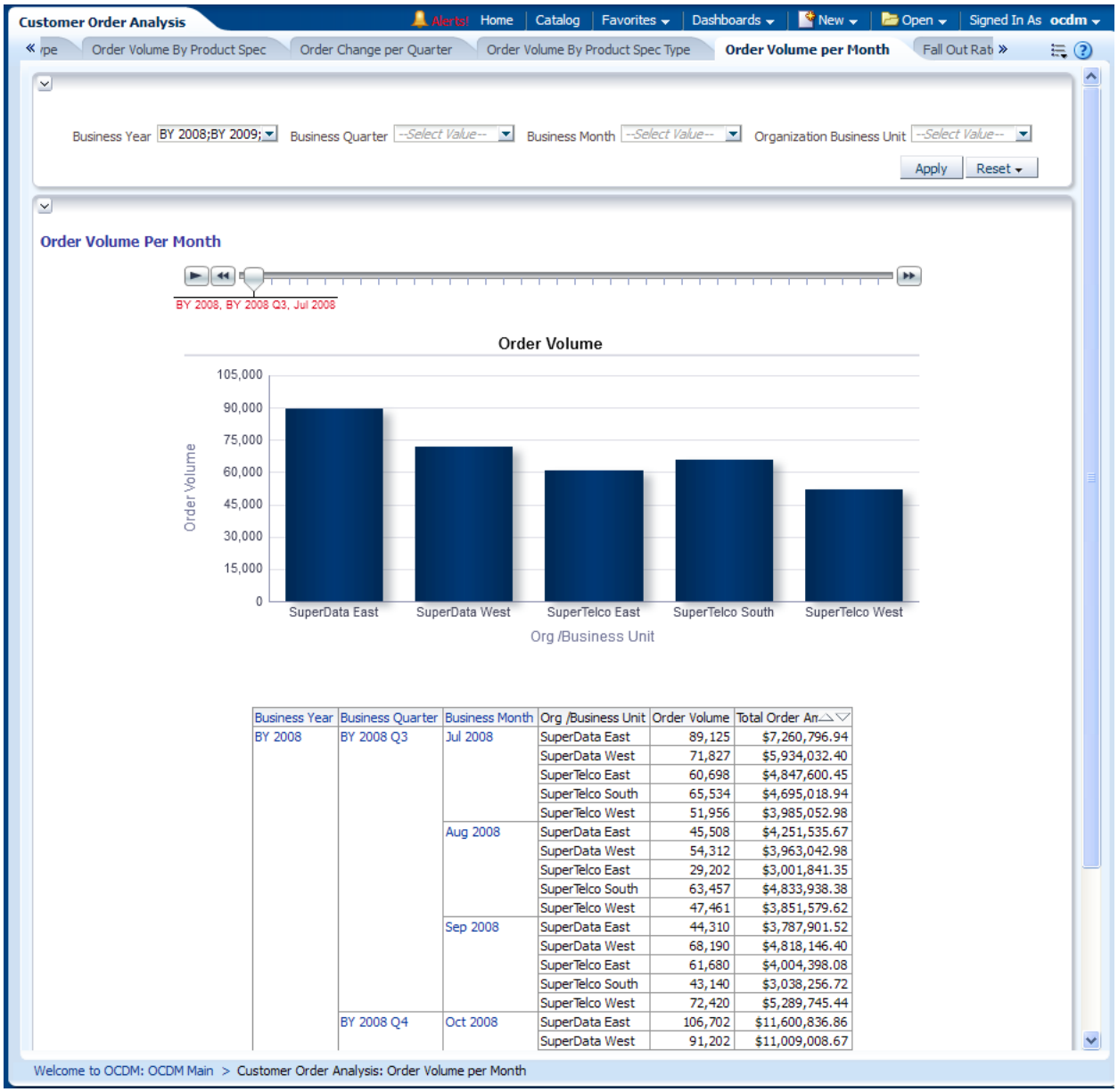
Order Volume per Month

This report, as shown in Figure 12–52 provides business year, business quarter, and business month-level information based on order volume per month.

Report dimensions are:

- Business Time
- Organization Unit

Figure 12–52 Customer Order Analysis Order Volume per Month Report



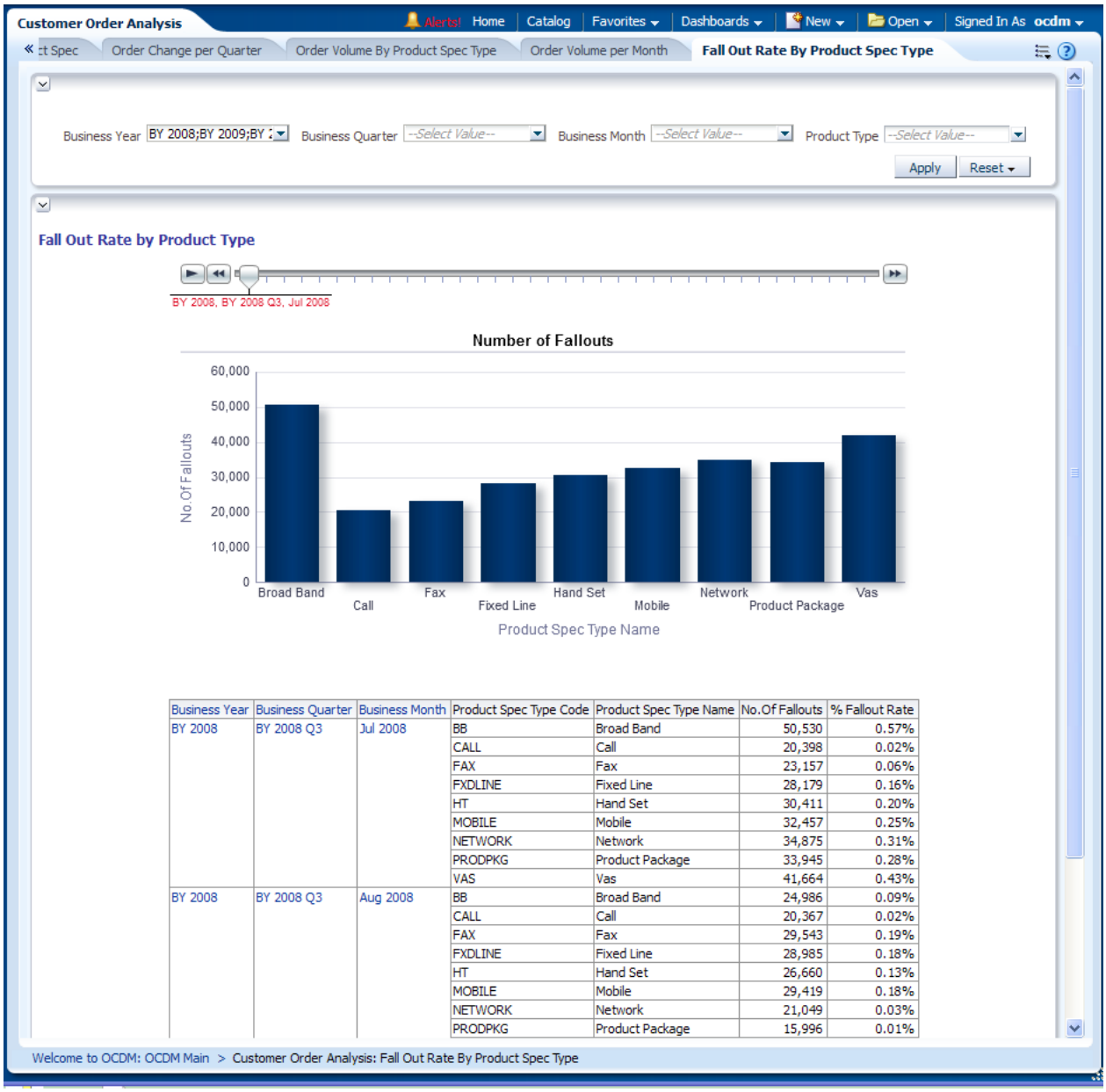
Fall Out Rate by Product Specification Type

This report, as shown in Figure 12–53 provides business year, business quarter, and business month-level information based on fall out rate by product specification type.

Report dimensions are:

- Business Time

Figure 12–53 Customer Order Analysis Fall Out Rate by Product Specification Type Report



Business Year	Business Quarter	Business Month	Product Spec Type Code	Product Spec Type Name	No.Of Fallouts	% Fallout Rate
BY 2008	BY 2008 Q3	Jul 2008	BB	Broad Band	50,530	0.57%
			CALL	Call	20,398	0.02%
			FAX	Fax	23,157	0.06%
			FXDLINE	Fixed Line	28,179	0.16%
			HT	Hand Set	30,411	0.20%
			MOBILE	Mobile	32,457	0.25%
			NETWORK	Network	34,875	0.31%
			PRODPKG	Product Package	33,945	0.28%
			VAS	Vas	41,664	0.43%
BY 2008	BY 2008 Q3	Aug 2008	BB	Broad Band	24,986	0.09%
			CALL	Call	20,367	0.02%
			FAX	Fax	29,543	0.19%
			FXDLINE	Fixed Line	28,985	0.18%
			HT	Hand Set	26,660	0.13%
			MOBILE	Mobile	29,419	0.18%
			NETWORK	Network	21,049	0.03%
			PRODPKG	Product Package	15,996	0.01%

Network Reports

The network area reports include the following areas:

- Network Analysis
- Network Health Analysis
- Network Usage

Network Analysis

This area includes the reports: Network Capacity, Minutes of Usage, Airtime per Subscription, and Load During Busy Hours.

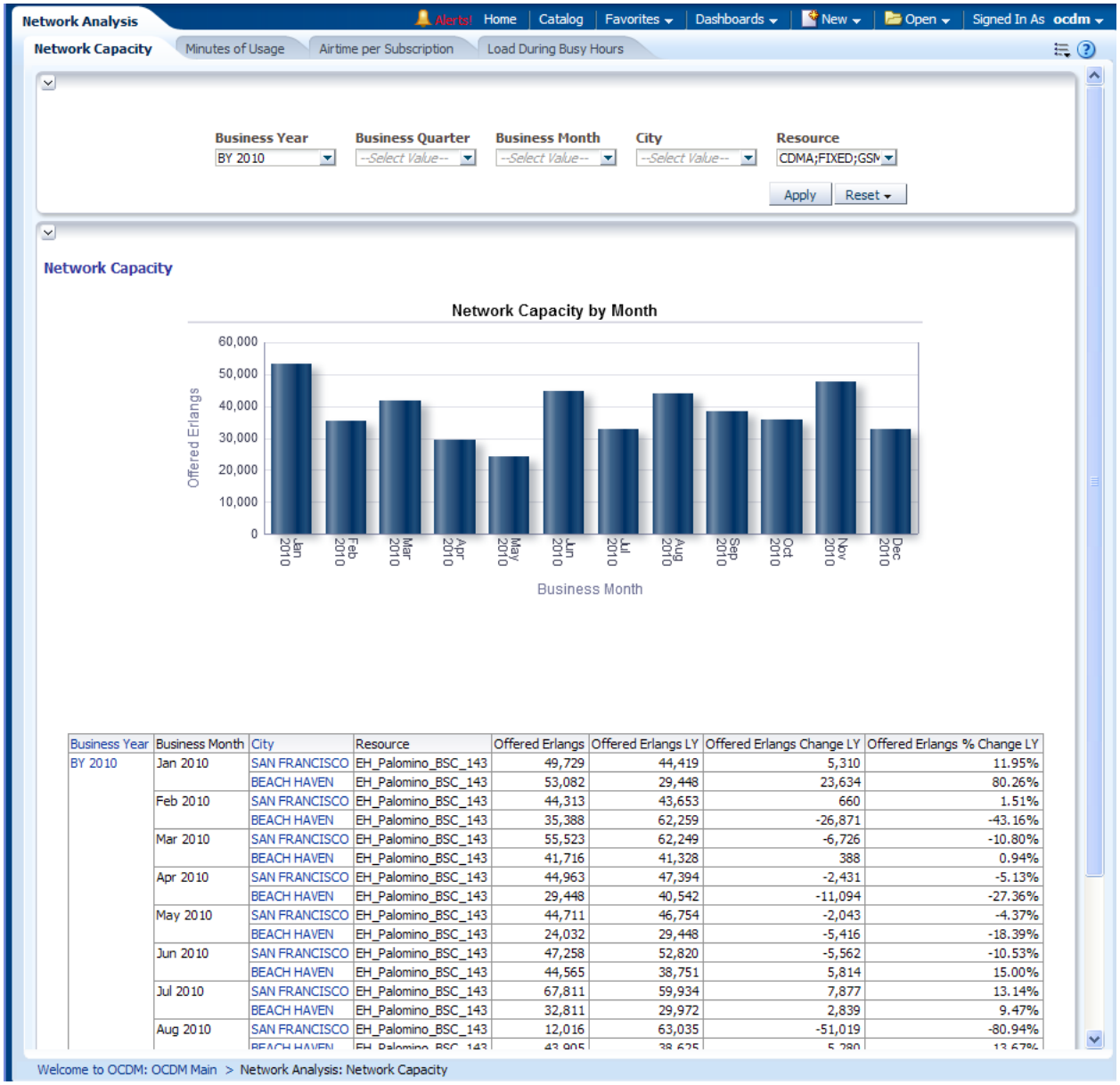
Network Capacity

This report, as shown in Figure 12–54 provides month-level transaction activity information based on network capacity measures, for one or more locations.

Report dimensions are:

- Business Time
- Geography
- Network Element

Figure 12–54 Network Capacity Report



Business Year	Business Month	City	Resource	Offered Erlangs	Offered Erlangs LY	Offered Erlangs Change LY	Offered Erlangs % Change LY
BY 2010	Jan 2010	SAN FRANCISCO	EH_Palomino_BSC_143	49,729	44,419	5,310	11.95%
		BEACH HAVEN	EH_Palomino_BSC_143	53,082	29,448	23,634	80.26%
	Feb 2010	SAN FRANCISCO	EH_Palomino_BSC_143	44,313	43,653	660	1.51%
		BEACH HAVEN	EH_Palomino_BSC_143	35,388	62,259	-26,871	-43.16%
	Mar 2010	SAN FRANCISCO	EH_Palomino_BSC_143	55,523	62,249	-6,726	-10.80%
		BEACH HAVEN	EH_Palomino_BSC_143	41,716	41,328	388	0.94%
	Apr 2010	SAN FRANCISCO	EH_Palomino_BSC_143	44,963	47,394	-2,431	-5.13%
		BEACH HAVEN	EH_Palomino_BSC_143	29,448	40,542	-11,094	-27.36%
	May 2010	SAN FRANCISCO	EH_Palomino_BSC_143	44,711	46,754	-2,043	-4.37%
		BEACH HAVEN	EH_Palomino_BSC_143	24,032	29,448	-5,416	-18.39%
	Jun 2010	SAN FRANCISCO	EH_Palomino_BSC_143	47,258	52,820	-5,562	-10.53%
		BEACH HAVEN	EH_Palomino_BSC_143	44,565	38,751	5,814	15.00%
	Jul 2010	SAN FRANCISCO	EH_Palomino_BSC_143	67,811	59,934	7,877	13.14%
		BEACH HAVEN	EH_Palomino_BSC_143	32,811	29,972	2,839	9.47%
	Aug 2010	SAN FRANCISCO	EH_Palomino_BSC_143	12,016	63,035	-51,019	-80.94%
		BEACH HAVEN	EH_Palomino_BSC_143	43,905	38,625	5,280	13.67%

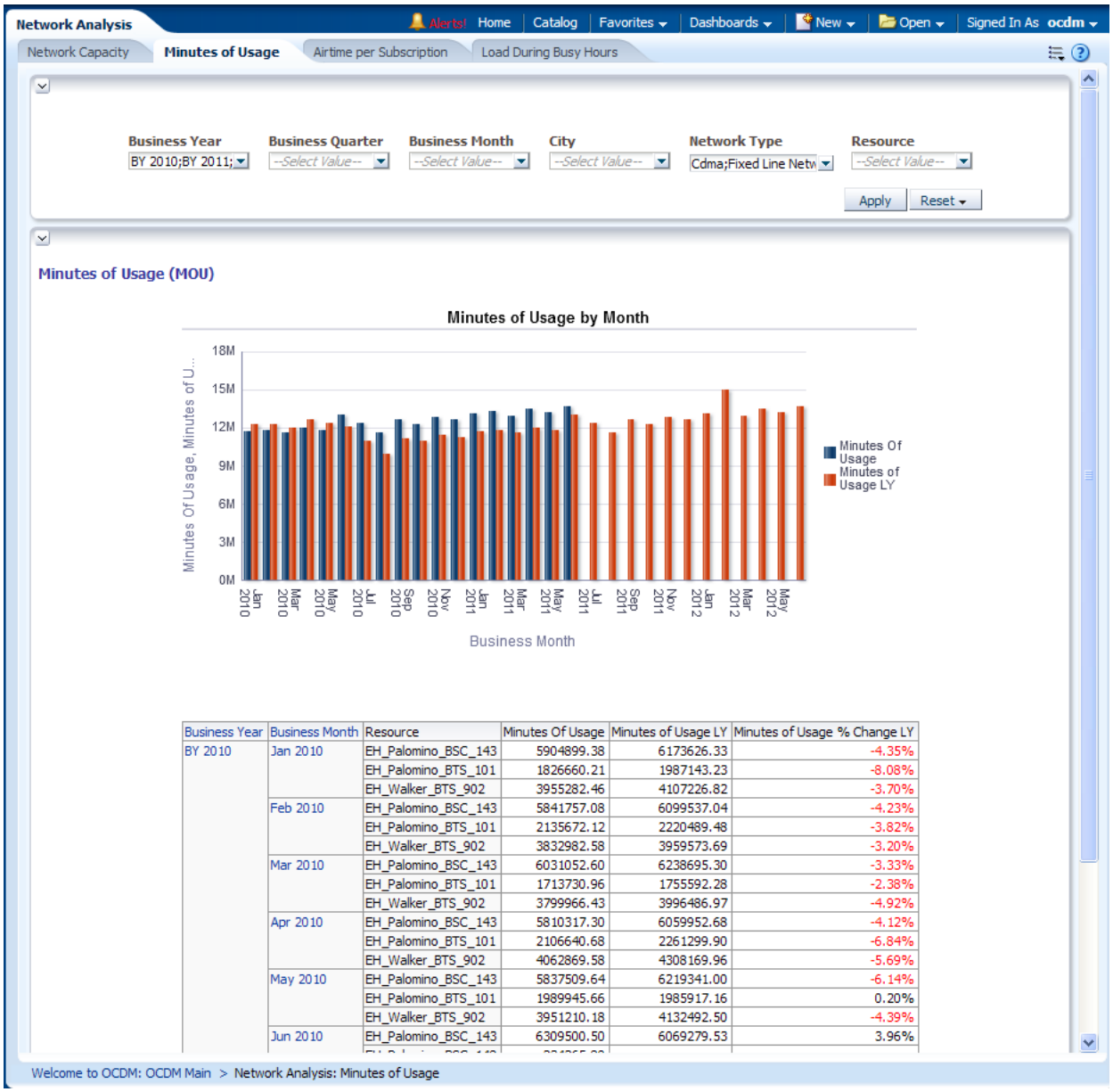
Minutes of Usage

This as shown in Figure 12–55 provides month-level call usage summary information based on call duration in minutes, in certain areas and the network elements.

Report dimensions are:

- Business Time
- Network Element

Figure 12–55 Minutes of Usage Report



Business Year	Business Month	Resource	Minutes Of Usage	Minutes of Usage LY	Minutes of Usage % Change LY
BY 2010	Jan 2010	EH_Palomino_BSC_143	5904899.38	6173626.33	-4.35%
		EH_Palomino_BTS_101	1826660.21	1987143.23	-8.08%
		EH_Walker_BTS_902	3955282.46	4107226.82	-3.70%
	Feb 2010	EH_Palomino_BSC_143	5841757.08	6099537.04	-4.23%
		EH_Palomino_BTS_101	2135672.12	2220489.48	-3.82%
		EH_Walker_BTS_902	3832982.58	3959573.69	-3.20%
	Mar 2010	EH_Palomino_BSC_143	6031052.60	6238695.30	-3.33%
		EH_Palomino_BTS_101	1713730.96	1755592.28	-2.38%
		EH_Walker_BTS_902	3799966.43	3996486.97	-4.92%
	Apr 2010	EH_Palomino_BSC_143	5810317.30	6059952.68	-4.12%
		EH_Palomino_BTS_101	2106640.68	2261299.90	-6.84%
		EH_Walker_BTS_902	4062869.58	4308169.96	-5.69%
	May 2010	EH_Palomino_BSC_143	5837509.64	6219341.00	-6.14%
		EH_Palomino_BTS_101	1989945.66	1985917.16	0.20%
		EH_Walker_BTS_902	3951210.18	4132492.50	-4.39%
	Jun 2010	EH_Palomino_BSC_143	6309500.50	6069279.53	3.96%

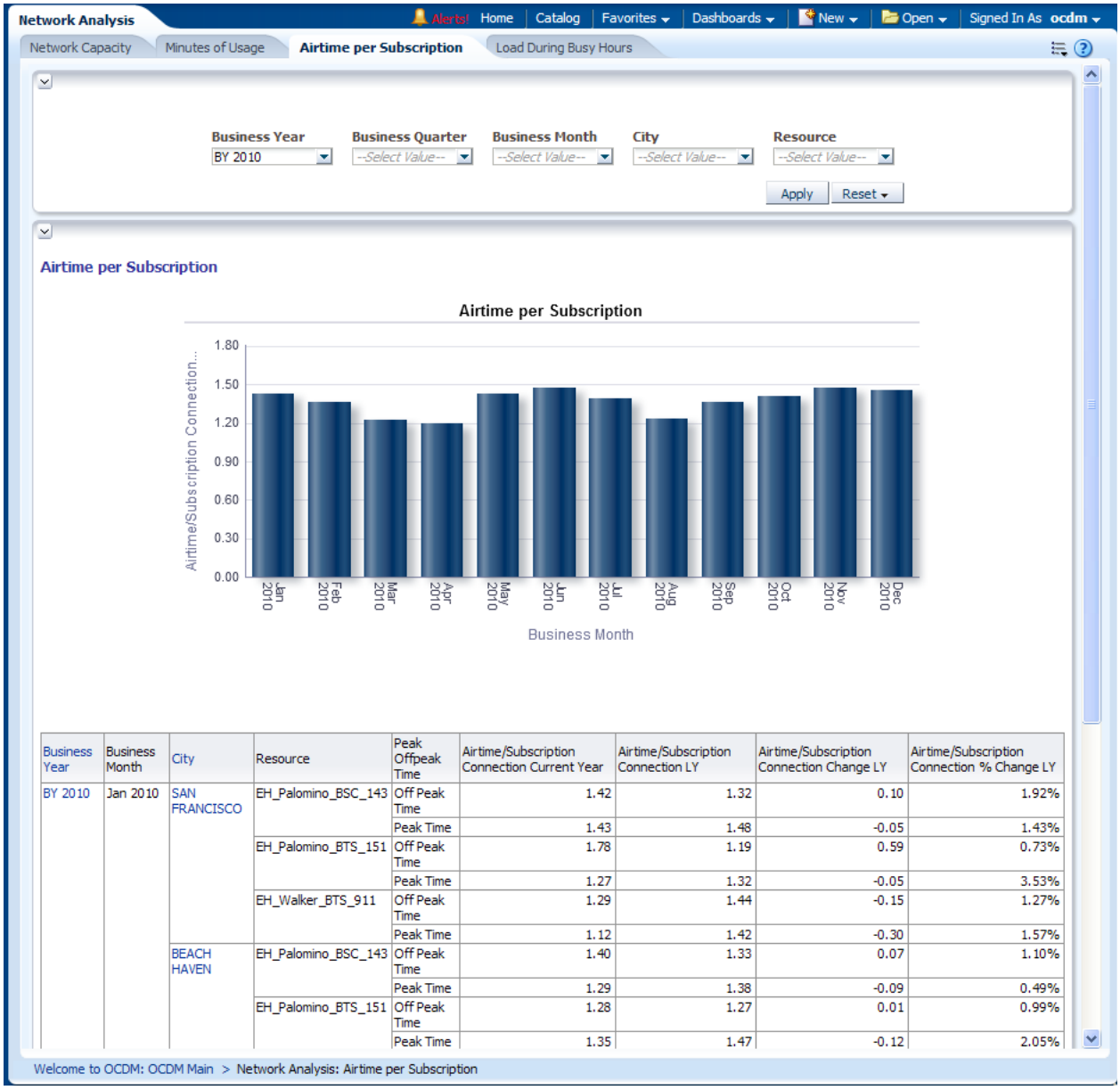
Airtime per Subscription

This as shown in Figure 12–56 provides month-level transaction activity information based on airtime per subscription connection measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography
- Peak Off peak Time

Figure 12–56 Airtime per Subscription Report



Business Year	Business Month	City	Resource	Peak Offpeak Time	Airtime/Subscription Connection Current Year	Airtime/Subscription Connection LY	Airtime/Subscription Connection Change LY	Airtime/Subscription Connection % Change LY
BY 2010	Jan 2010	SAN FRANCISCO	EH_Palomino_BSC_143	Off Peak Time	1.42	1.32	0.10	1.92%
				Peak Time	1.43	1.48	-0.05	1.43%
			EH_Palomino_BTS_151	Off Peak Time	1.78	1.19	0.59	0.73%
				Peak Time	1.27	1.32	-0.05	3.53%
			EH_Walker_BTS_911	Off Peak Time	1.29	1.44	-0.15	1.27%
				Peak Time	1.12	1.42	-0.30	1.57%
		BEACH HAVEN	EH_Palomino_BSC_143	Off Peak Time	1.40	1.33	0.07	1.10%
				Peak Time	1.29	1.38	-0.09	0.49%
			EH_Palomino_BTS_151	Off Peak Time	1.28	1.27	0.01	0.99%
				Peak Time	1.35	1.47	-0.12	2.05%

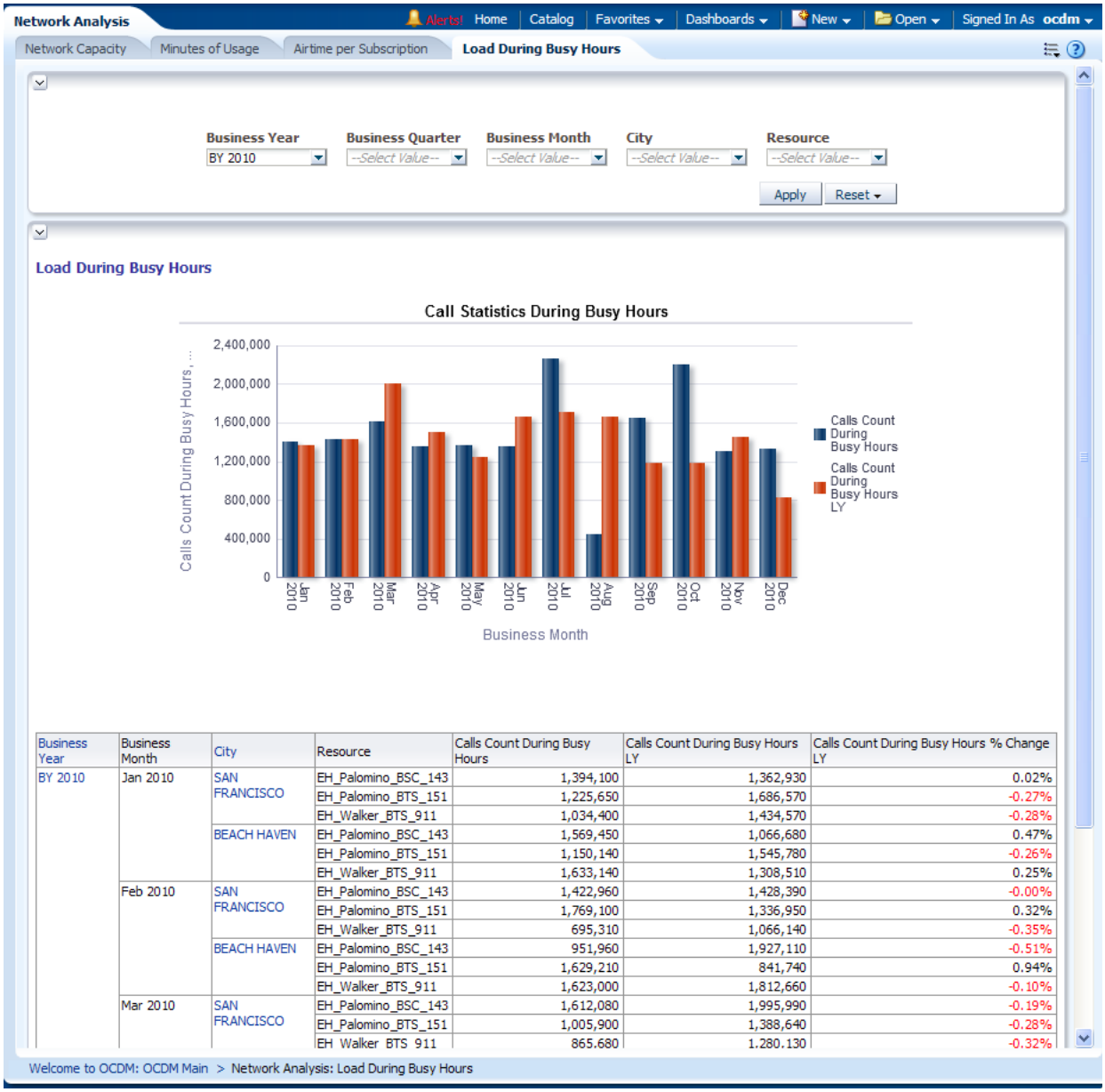
Load During Busy Hours

This report, as shown in Figure 12–57 provides month-level transaction activity information based on calls count during busy hours measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography
- Peak Off peak Time

Figure 12–57 Load During Busy Hours Report



Business Year	Business Month	City	Resource	Calls Count During Busy Hours	Calls Count During Busy Hours LY	Calls Count During Busy Hours % Change LY
BY 2010	Jan 2010	SAN FRANCISCO	EH_Palomino_BSC_143	1,394,100	1,362,930	0.02%
			EH_Palomino_BTS_151	1,225,650	1,686,570	-0.27%
			EH_Walker_BTS_911	1,034,400	1,434,570	-0.28%
		BEACH HAVEN	EH_Palomino_BSC_143	1,569,450	1,066,680	0.47%
			EH_Palomino_BTS_151	1,150,140	1,545,780	-0.26%
			EH_Walker_BTS_911	1,633,140	1,308,510	0.25%
	Feb 2010	SAN FRANCISCO	EH_Palomino_BSC_143	1,422,960	1,428,390	-0.00%
			EH_Palomino_BTS_151	1,769,100	1,336,950	0.32%
			EH_Walker_BTS_911	695,310	1,066,140	-0.35%
		BEACH HAVEN	EH_Palomino_BSC_143	951,960	1,927,110	-0.51%
			EH_Palomino_BTS_151	1,629,210	841,740	0.94%
			EH_Walker_BTS_911	1,623,000	1,812,660	-0.10%
	Mar 2010	SAN FRANCISCO	EH_Palomino_BSC_143	1,612,080	1,995,990	-0.19%
			EH_Palomino_BTS_151	1,005,900	1,388,640	-0.28%
			EH_Walker_BTS_911	865,680	1,280,130	-0.32%

Network Health Analysis

This area includes the reports: Traffic by Connection, Connections per Site, Dropped Call Rate, Call Failure Rate, Congestion, Connection by Geography, and Connection by Voice Channel.

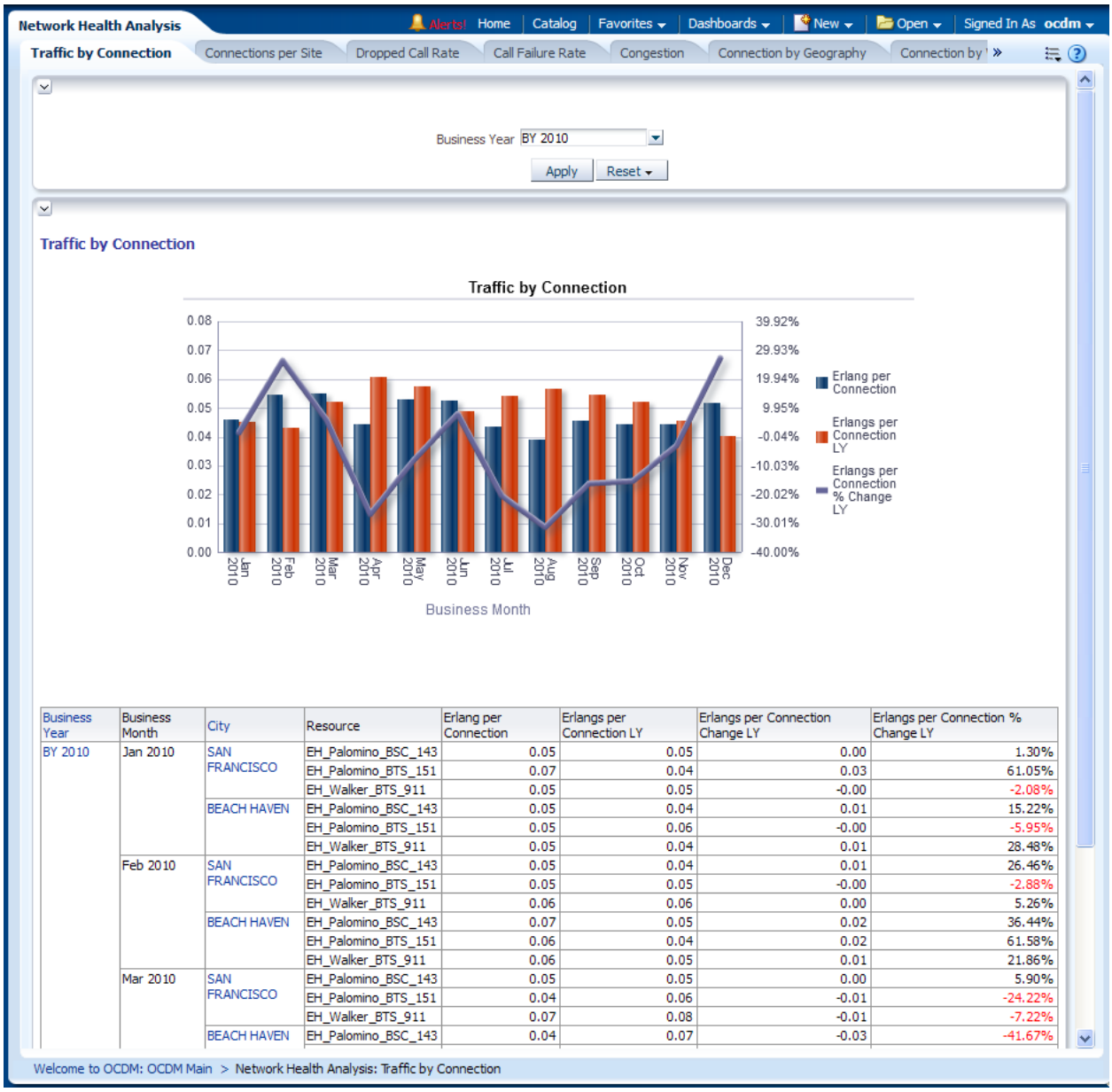
Traffic by Connection

This report, as shown in Figure 12–58 provides month-level transaction activity information based on traffic by connection measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography
- Peak Off peak Time

Figure 12–58 Traffic by Connection Report



Business Year	Business Month	City	Resource	Erlang per Connection	Erlangs per Connection LY	Erlangs per Connection Change LY	Erlangs per Connection % Change LY
BY 2010	Jan 2010	SAN FRANCISCO	EH_Palomino_BSC_143	0.05	0.05	0.00	1.30%
			EH_Palomino_BTS_151	0.07	0.04	0.03	61.05%
			EH_Walker_BTS_911	0.05	0.05	-0.00	-2.08%
		BEACH HAVEN	EH_Palomino_BSC_143	0.05	0.04	0.01	15.22%
			EH_Palomino_BTS_151	0.05	0.06	-0.00	-5.95%
			EH_Walker_BTS_911	0.05	0.04	0.01	28.48%
	Feb 2010	SAN FRANCISCO	EH_Palomino_BSC_143	0.05	0.04	0.01	26.46%
			EH_Palomino_BTS_151	0.05	0.05	-0.00	-2.88%
			EH_Walker_BTS_911	0.06	0.06	0.00	5.26%
		BEACH HAVEN	EH_Palomino_BSC_143	0.07	0.05	0.02	36.44%
			EH_Palomino_BTS_151	0.06	0.04	0.02	61.58%
			EH_Walker_BTS_911	0.06	0.05	0.01	21.86%
	Mar 2010	SAN FRANCISCO	EH_Palomino_BSC_143	0.05	0.05	0.00	5.90%
			EH_Palomino_BTS_151	0.04	0.06	-0.01	-24.22%
			EH_Walker_BTS_911	0.07	0.08	-0.01	-7.22%
		BEACH HAVEN	EH_Palomino_BSC_143	0.04	0.07	-0.03	-41.67%

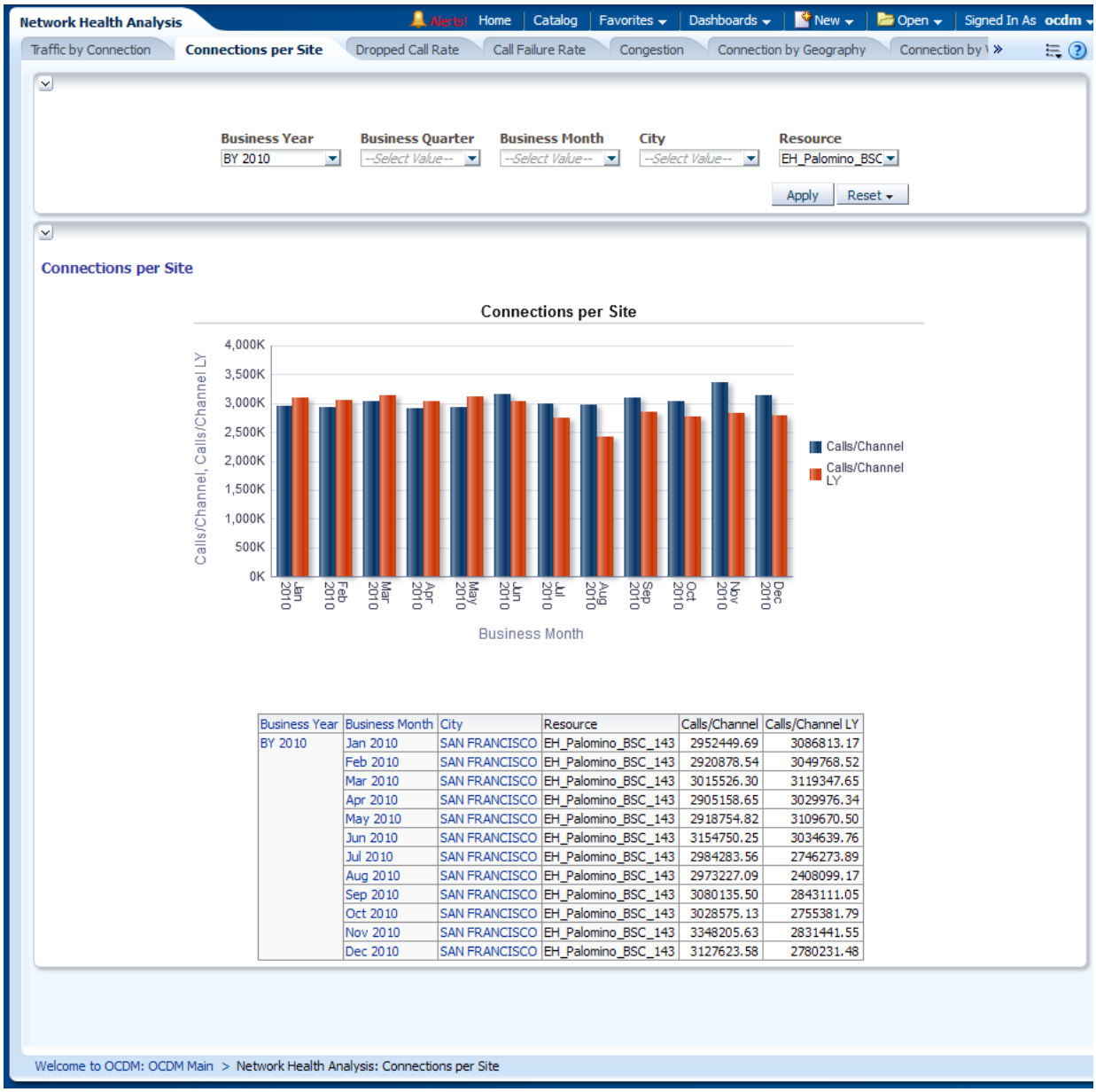
Connections per Site

This report, as shown in Figure 12–59 provides month-level transaction activity information based on subscriptions per channel measures, for one or more location.

Report dimensions are:

- Business Time
- Resource
- Geography

Figure 12–59 Connections per Site Report



Business Year	Business Month	City	Resource	Calls/Channel	Calls/Channel LY
BY 2010	Jan 2010	SAN FRANCISCO	EH_Palomino_BSC_143	2952449.69	3086813.17
	Feb 2010	SAN FRANCISCO	EH_Palomino_BSC_143	2920878.54	3049768.52
	Mar 2010	SAN FRANCISCO	EH_Palomino_BSC_143	3015526.30	3119347.65
	Apr 2010	SAN FRANCISCO	EH_Palomino_BSC_143	2905158.65	3029976.34
	May 2010	SAN FRANCISCO	EH_Palomino_BSC_143	2918754.82	3109670.50
	Jun 2010	SAN FRANCISCO	EH_Palomino_BSC_143	3154750.25	3034639.76
	Jul 2010	SAN FRANCISCO	EH_Palomino_BSC_143	2984283.56	2746273.89
	Aug 2010	SAN FRANCISCO	EH_Palomino_BSC_143	2973227.09	2408099.17
	Sep 2010	SAN FRANCISCO	EH_Palomino_BSC_143	3080135.50	2843111.05
	Oct 2010	SAN FRANCISCO	EH_Palomino_BSC_143	3028575.13	2755381.79
	Nov 2010	SAN FRANCISCO	EH_Palomino_BSC_143	3348205.63	2831441.55
	Dec 2010	SAN FRANCISCO	EH_Palomino_BSC_143	3127623.58	2780231.48

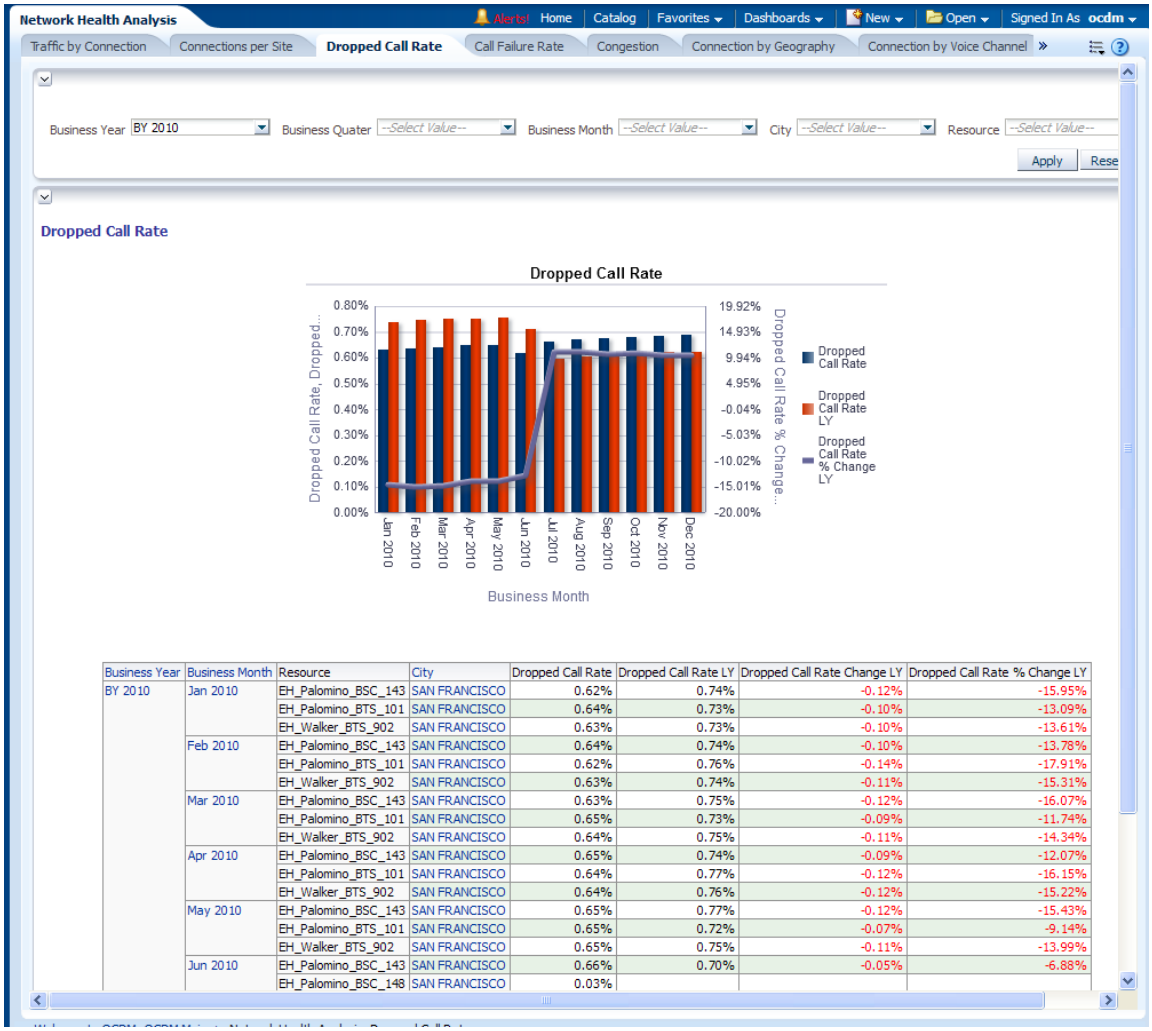
Dropped Call Rate

This report, as shown in Figure 12–60 provides month-level transaction activity information based on dropped call rate measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography

Figure 12–60 Dropped Call Rate Report



Business Year	Business Month	Resource	City	Dropped Call Rate	Dropped Call Rate LY	Dropped Call Rate Change LY	Dropped Call Rate % Change LY
BY 2010	Jan 2010	EH_Palomino_BSC_143	SAN FRANCISCO	0.62%	0.74%	-0.12%	-15.95%
		EH_Palomino_BTS_101	SAN FRANCISCO	0.64%	0.73%	-0.10%	-13.09%
		EH_Walker_BTS_902	SAN FRANCISCO	0.63%	0.73%	-0.10%	-13.61%
	Feb 2010	EH_Palomino_BSC_143	SAN FRANCISCO	0.64%	0.74%	-0.10%	-13.78%
		EH_Palomino_BTS_101	SAN FRANCISCO	0.62%	0.76%	-0.14%	-17.91%
		EH_Walker_BTS_902	SAN FRANCISCO	0.63%	0.74%	-0.11%	-15.31%
	Mar 2010	EH_Palomino_BSC_143	SAN FRANCISCO	0.63%	0.75%	-0.12%	-16.07%
		EH_Palomino_BTS_101	SAN FRANCISCO	0.65%	0.73%	-0.09%	-11.74%
		EH_Walker_BTS_902	SAN FRANCISCO	0.64%	0.75%	-0.11%	-14.34%
	Apr 2010	EH_Palomino_BSC_143	SAN FRANCISCO	0.65%	0.74%	-0.09%	-12.07%
		EH_Palomino_BTS_101	SAN FRANCISCO	0.64%	0.77%	-0.12%	-16.15%
		EH_Walker_BTS_902	SAN FRANCISCO	0.64%	0.76%	-0.12%	-15.22%
	May 2010	EH_Palomino_BSC_143	SAN FRANCISCO	0.65%	0.77%	-0.12%	-15.43%
		EH_Palomino_BTS_101	SAN FRANCISCO	0.65%	0.72%	-0.07%	-9.14%
		EH_Walker_BTS_902	SAN FRANCISCO	0.65%	0.75%	-0.11%	-13.99%
	Jun 2010	EH_Palomino_BSC_143	SAN FRANCISCO	0.66%	0.70%	-0.05%	-6.88%
		EH_Palomino_BSC_148	SAN FRANCISCO	0.03%			

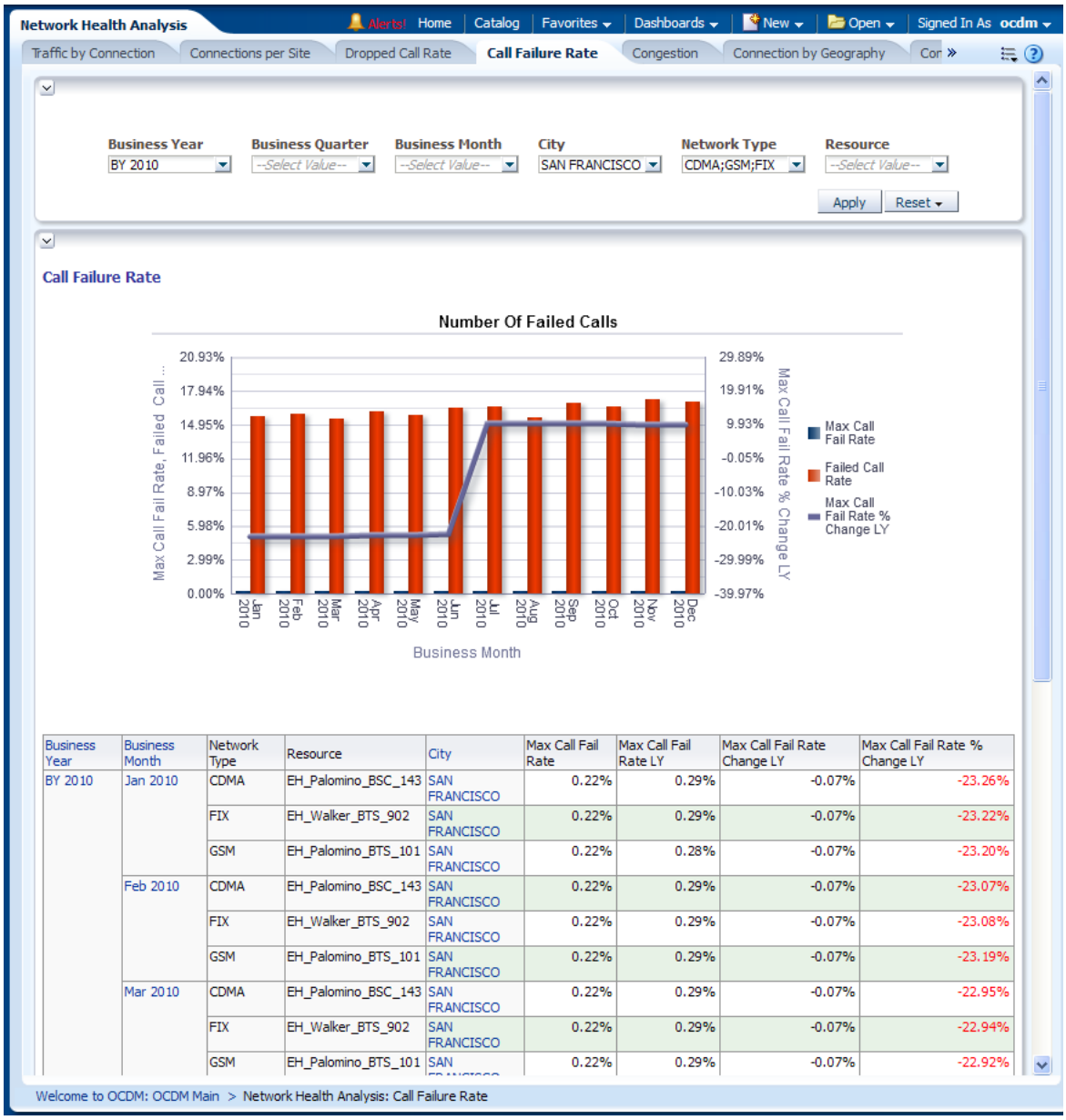
Call Failure Rate

This report, as shown in Figure 12–61 provides month-level transaction activity information based on network congestion measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography

Figure 12–61 Call Failure Rate Report



Business Year	Business Month	Network Type	Resource	City	Max Call Fail Rate	Max Call Fail Rate LY	Max Call Fail Rate Change LY	Max Call Fail Rate % Change LY
BY 2010	Jan 2010	CDMA	EH_Palomino_BSC_143	SAN FRANCISCO	0.22%	0.29%	-0.07%	-23.26%
		FIX	EH_Walker_BTS_902	SAN FRANCISCO	0.22%	0.29%	-0.07%	-23.22%
		GSM	EH_Palomino_BTS_101	SAN FRANCISCO	0.22%	0.28%	-0.07%	-23.20%
	Feb 2010	CDMA	EH_Palomino_BSC_143	SAN FRANCISCO	0.22%	0.29%	-0.07%	-23.07%
		FIX	EH_Walker_BTS_902	SAN FRANCISCO	0.22%	0.29%	-0.07%	-23.08%
		GSM	EH_Palomino_BTS_101	SAN FRANCISCO	0.22%	0.29%	-0.07%	-23.19%
	Mar 2010	CDMA	EH_Palomino_BSC_143	SAN FRANCISCO	0.22%	0.29%	-0.07%	-22.95%
		FIX	EH_Walker_BTS_902	SAN FRANCISCO	0.22%	0.29%	-0.07%	-22.94%
		GSM	EH_Palomino_BTS_101	SAN	0.22%	0.29%	-0.07%	-22.92%

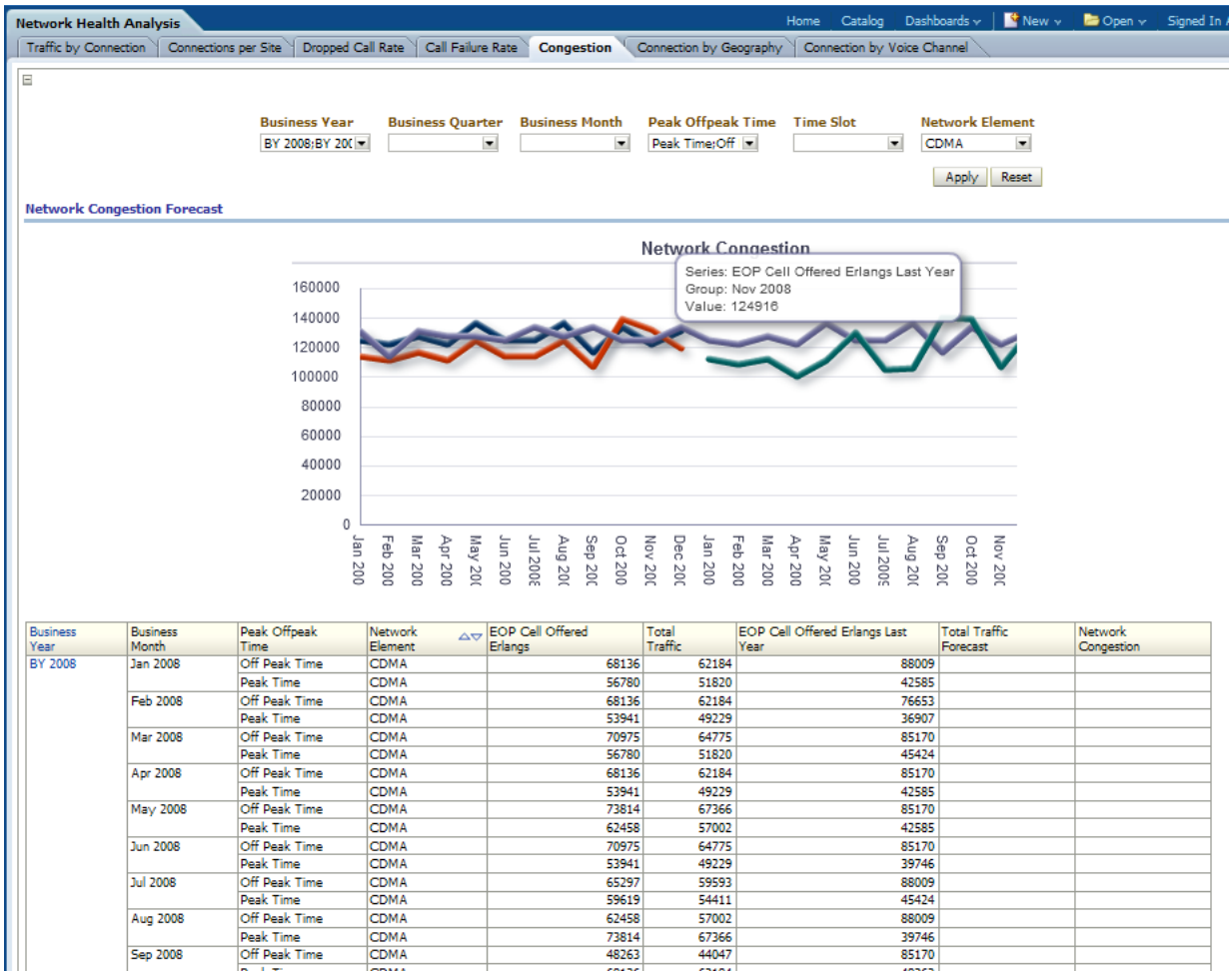
Congestion

This report, as shown in Figure 12–62 provides month-level transaction activity information based on end of period cell offered erlangs measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography
- Time Slot
- Peak Offpeak Time

Figure 12–62 Congestion Report



Business Year	Business Month	Peak Offpeak Time	Network Element	EOP Cell Offered Erlangs	Total Traffic	EOP Cell Offered Erlangs Last Year	Total Traffic Forecast	Network Congestion
BY 2008	Jan 2008	Off Peak Time	CDMA	68136	62184	88009		
		Peak Time	CDMA	56780	51820	42585		
	Feb 2008	Off Peak Time	CDMA	68136	62184	76653		
		Peak Time	CDMA	53941	49229	36907		
	Mar 2008	Off Peak Time	CDMA	70975	64775	85170		
		Peak Time	CDMA	56780	51820	45424		
	Apr 2008	Off Peak Time	CDMA	68136	62184	85170		
		Peak Time	CDMA	53941	49229	42585		
	May 2008	Off Peak Time	CDMA	73814	67366	85170		
		Peak Time	CDMA	62458	57002	42585		
	Jun 2008	Off Peak Time	CDMA	70975	64775	85170		
		Peak Time	CDMA	53941	49229	39746		
	Jul 2008	Off Peak Time	CDMA	65297	59593	88009		
		Peak Time	CDMA	59619	54411	45424		
	Aug 2008	Off Peak Time	CDMA	62458	57002	88009		
		Peak Time	CDMA	73814	67366	39746		
	Sep 2008	Off Peak Time	CDMA	48263	44047	85170		

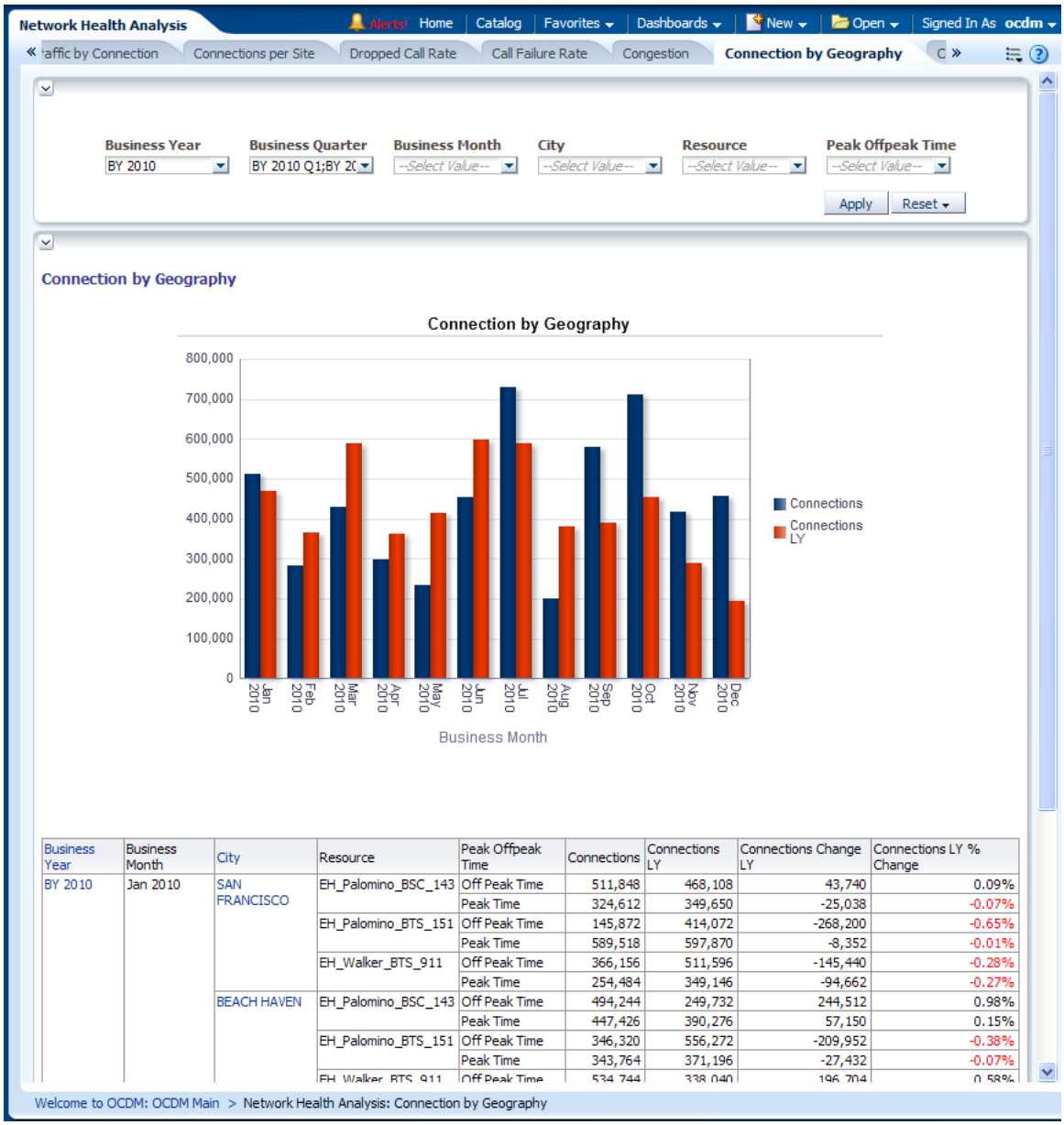
Connection by Geography

This report, as shown in Figure 12–63 provides month-level transaction activity information based on connections measures, for one or more location.

Report dimensions are:

- Business Time
- Network Element
- Geography
- Peak Offpeak Time

Figure 12–63 Connection by Geography Report



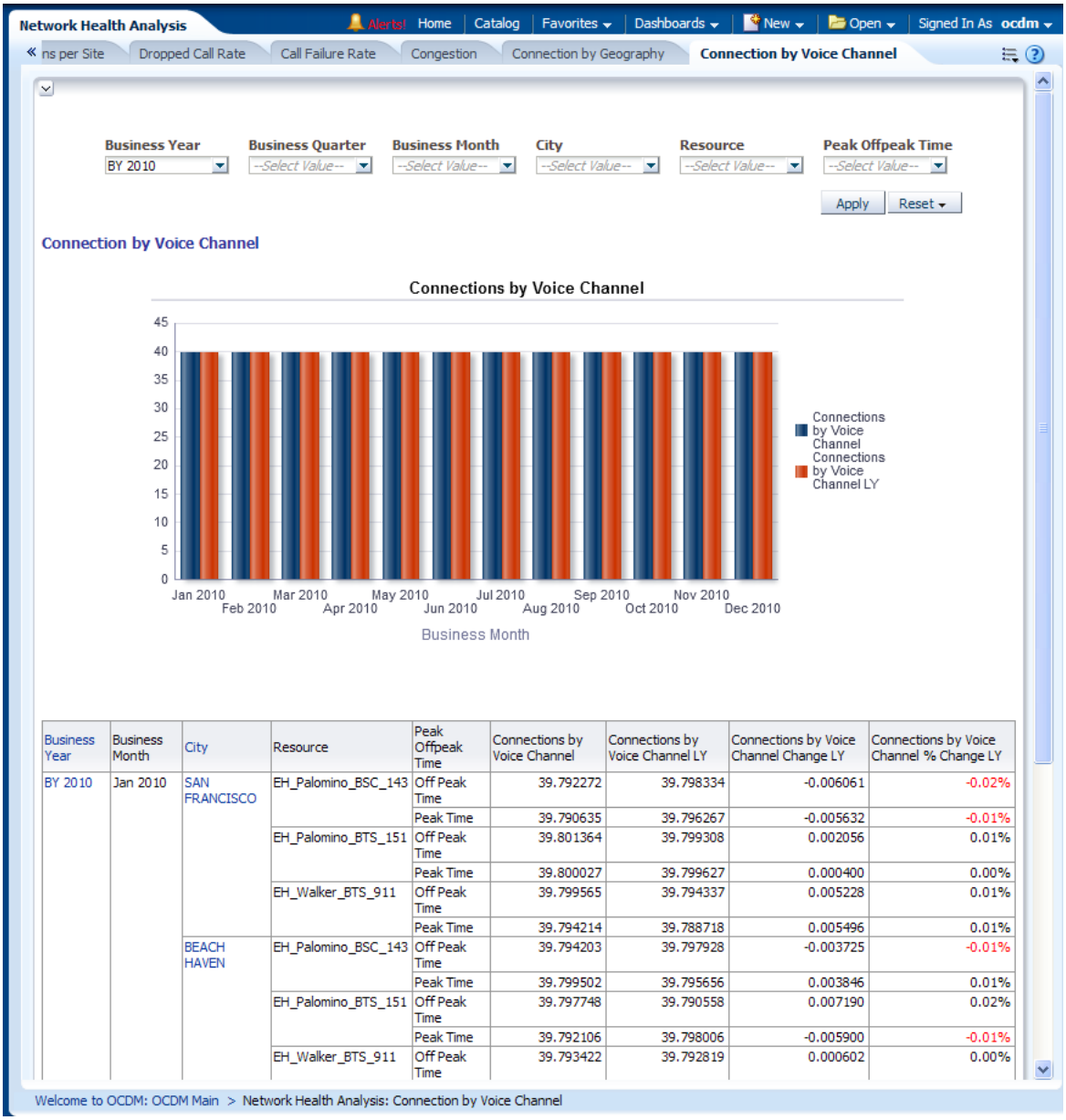
Connection by Voice Channel

This report, as shown in Figure 12–64 provides month-level transaction activity information based on connections by voice channel measures, for one or more location. This report shows will be used to collect most of the cell parameters.

Report dimensions are:

- Business Time
- Network Element
- Geography
- Peak Offpeak Time

Figure 12–64 Connection by Voice Channel Report



Network Usage

This area includes the reports: Number of Emergency Calls, Number of Call by Call Service Type, Number of Calls by Roaming Type, and Minutes of Usage by Call Type.

Number of Emergency Calls

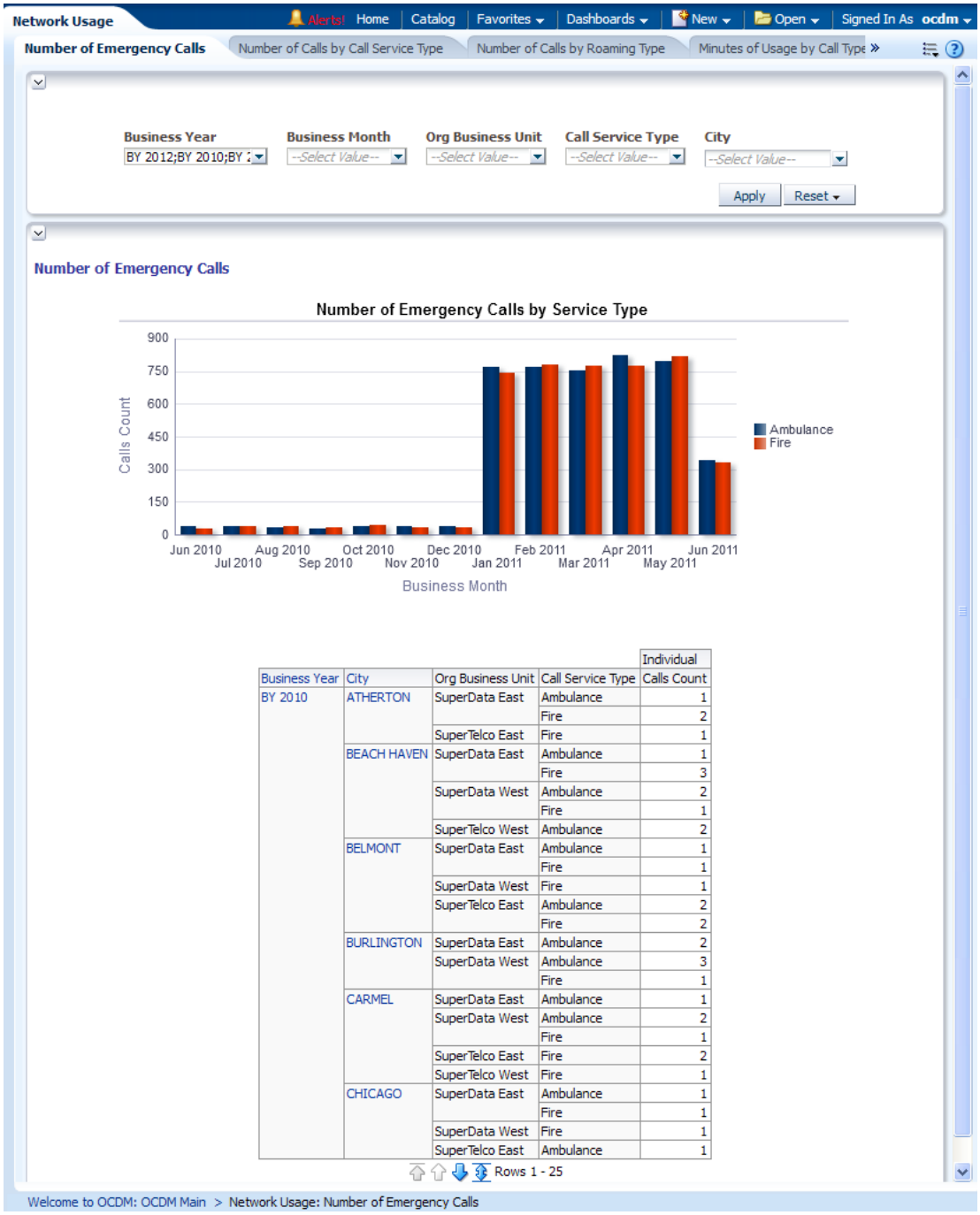
This report, as shown in Figure 12–65 provides the number of emergency calls.

Report dimensions are:

- Organization
- Business Time
- Customer

- Product
- Call Service Type
- Call Routing Type

Figure 12–65 Network Number of Emergency Calls Report



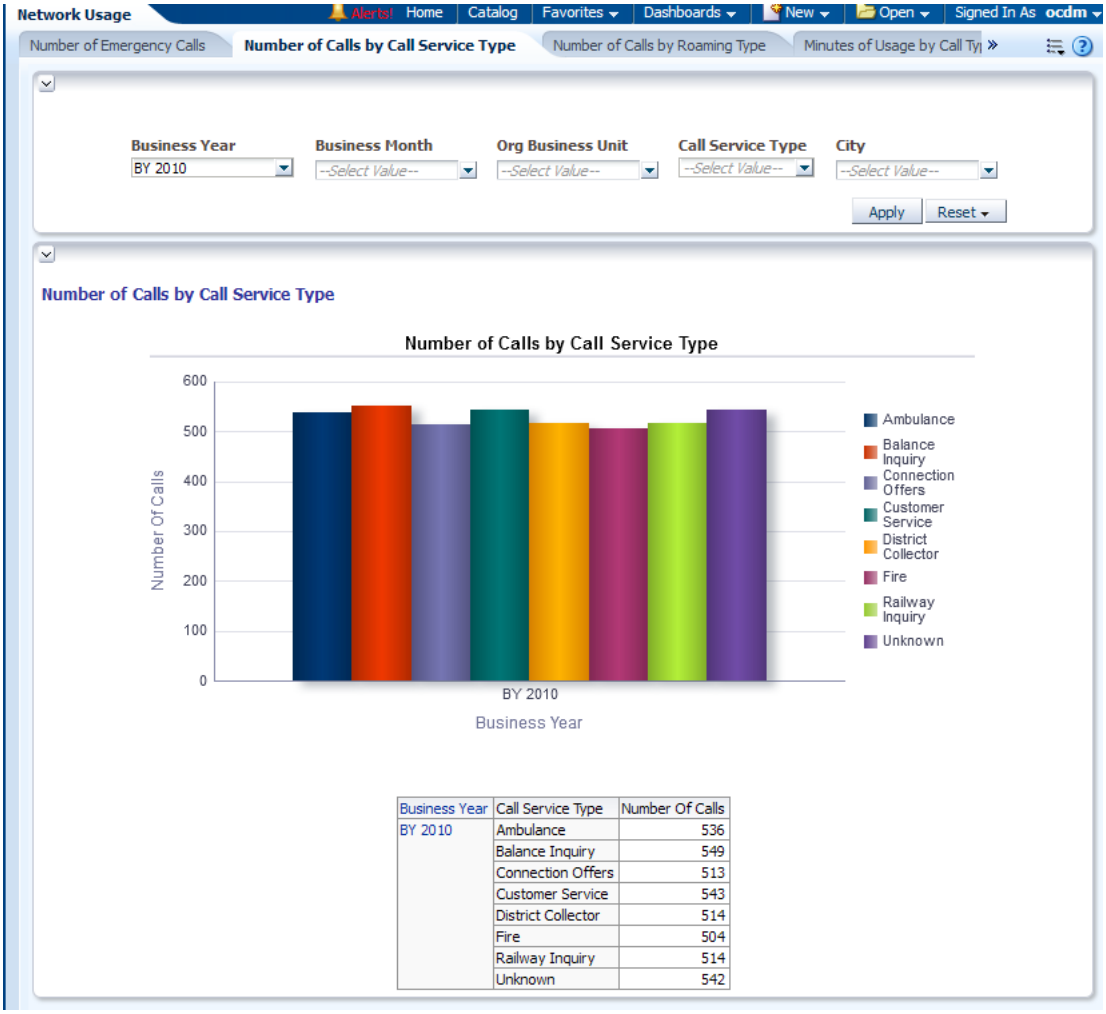
Number of Call by Call Service Type

This shown in Figure 12–66 provides year-level transaction activity information based on number of calls measures, for different types of call services.

Report dimensions are:

- Business Time
- Call Category

Figure 12–66 Network Number of Call by Call Service Type Report



Business Year	Call Service Type	Number Of Calls
BY 2010	Ambulance	536
	Balance Inquiry	549
	Connection Offers	513
	Customer Service	543
	District Collector	514
	Fire	504
	Railway Inquiry	514
	Unknown	542

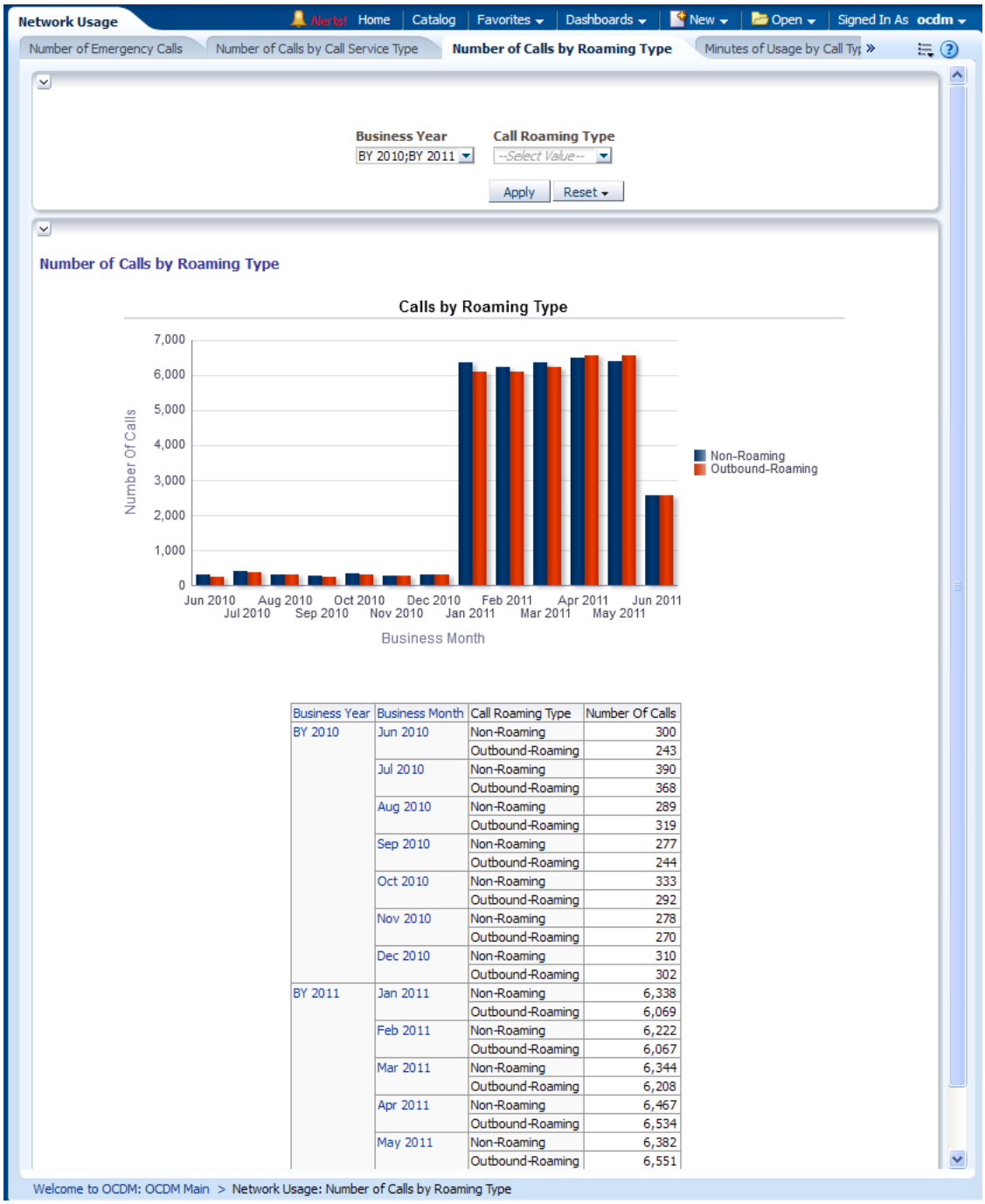
Number of Calls by Roaming Type

This shown in Figure 12–67 provides year-level transaction activity information based on the number of calls measures, for different types of call roaming.

Report dimensions are:

- Business Time
- Call Routing Type

Figure 12–67 Network Number of Calls by Roaming Type Report



Business Year	Business Month	Call Roaming Type	Number Of Calls
BY 2010	Jun 2010	Non-Roaming	300
		Outbound-Roaming	243
	Jul 2010	Non-Roaming	390
		Outbound-Roaming	368
	Aug 2010	Non-Roaming	289
		Outbound-Roaming	319
	Sep 2010	Non-Roaming	277
		Outbound-Roaming	244
	Oct 2010	Non-Roaming	333
		Outbound-Roaming	292
	Nov 2010	Non-Roaming	278
		Outbound-Roaming	270
	Dec 2010	Non-Roaming	310
		Outbound-Roaming	302
BY 2011	Jan 2011	Non-Roaming	6,338
		Outbound-Roaming	6,069
	Feb 2011	Non-Roaming	6,222
		Outbound-Roaming	6,067
	Mar 2011	Non-Roaming	6,344
		Outbound-Roaming	6,208
	Apr 2011	Non-Roaming	6,467
		Outbound-Roaming	6,534
	May 2011	Non-Roaming	6,382
		Outbound-Roaming	6,551

Minutes of Usage by Call Type

This as shown in Figure 12–68 provides year-level transaction activity information based on no of calls measures, for different types of call categories.

Report dimensions are:

- Business Time
- Call Category

Figure 12–68 Minutes of Usage by Call Type Report

Marketing Reports

The marketing area reports include the following areas:

- Targeted Promotion Lift and List
- Customer Market Share Analysis

- Current Customer Base Analysis

Targeted Promotion Lift and List

This area includes the report Customer Promotion List and

Customer Promotion List

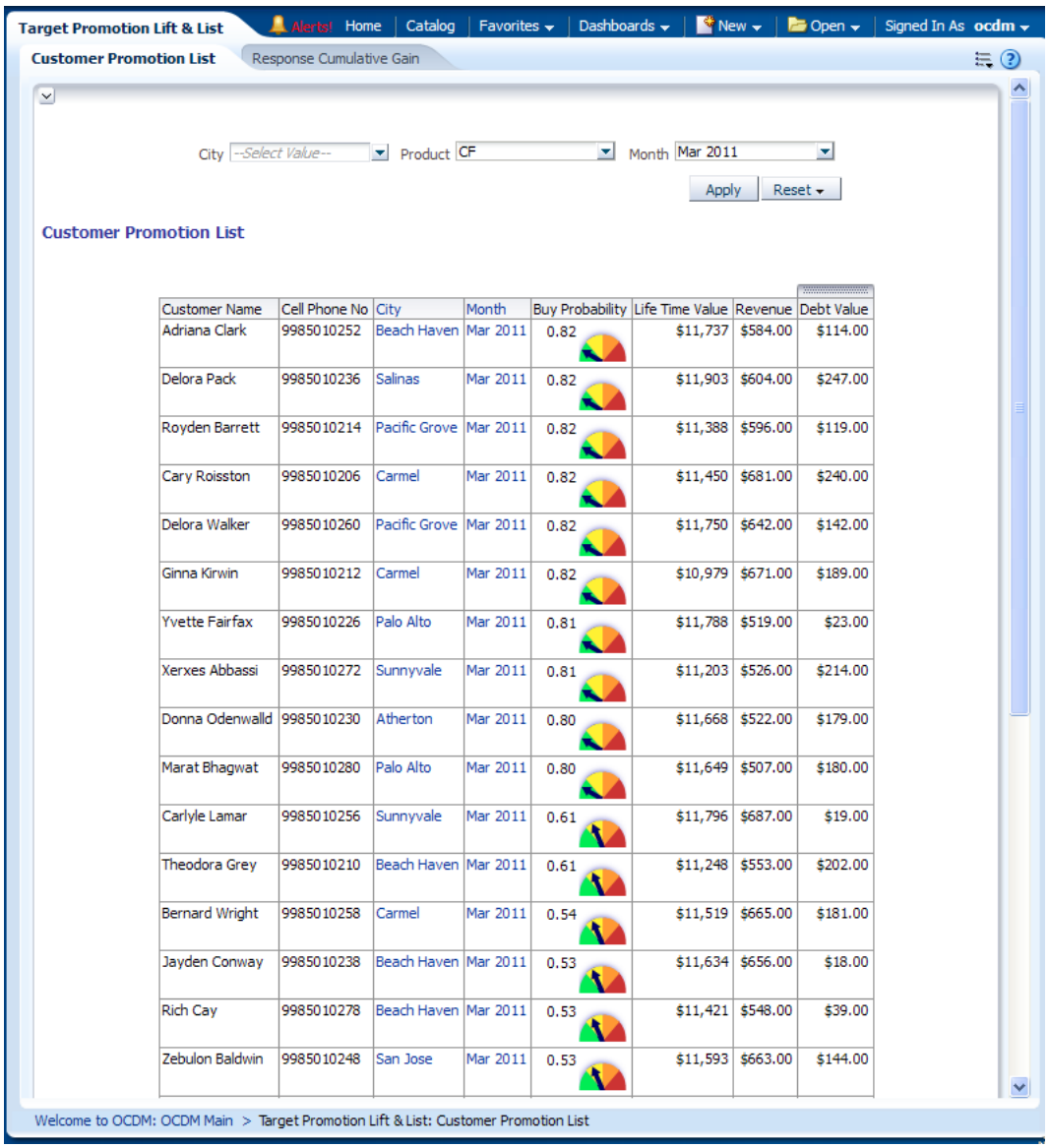
This report, as shown in Figure 12–69 provides a list of customers ranked by their probability of buying a product. For each customer, the life time value , ARPU, and Debt value are displayed for quick reference.

The buying probability of each customer on the product is calculated by Oracle Communications Data Model Targeted Promotion Mining model.

Report dimensions are:

- Customer

Figure 12–69 Customer Promotion List Report



Response Cumulative Gain

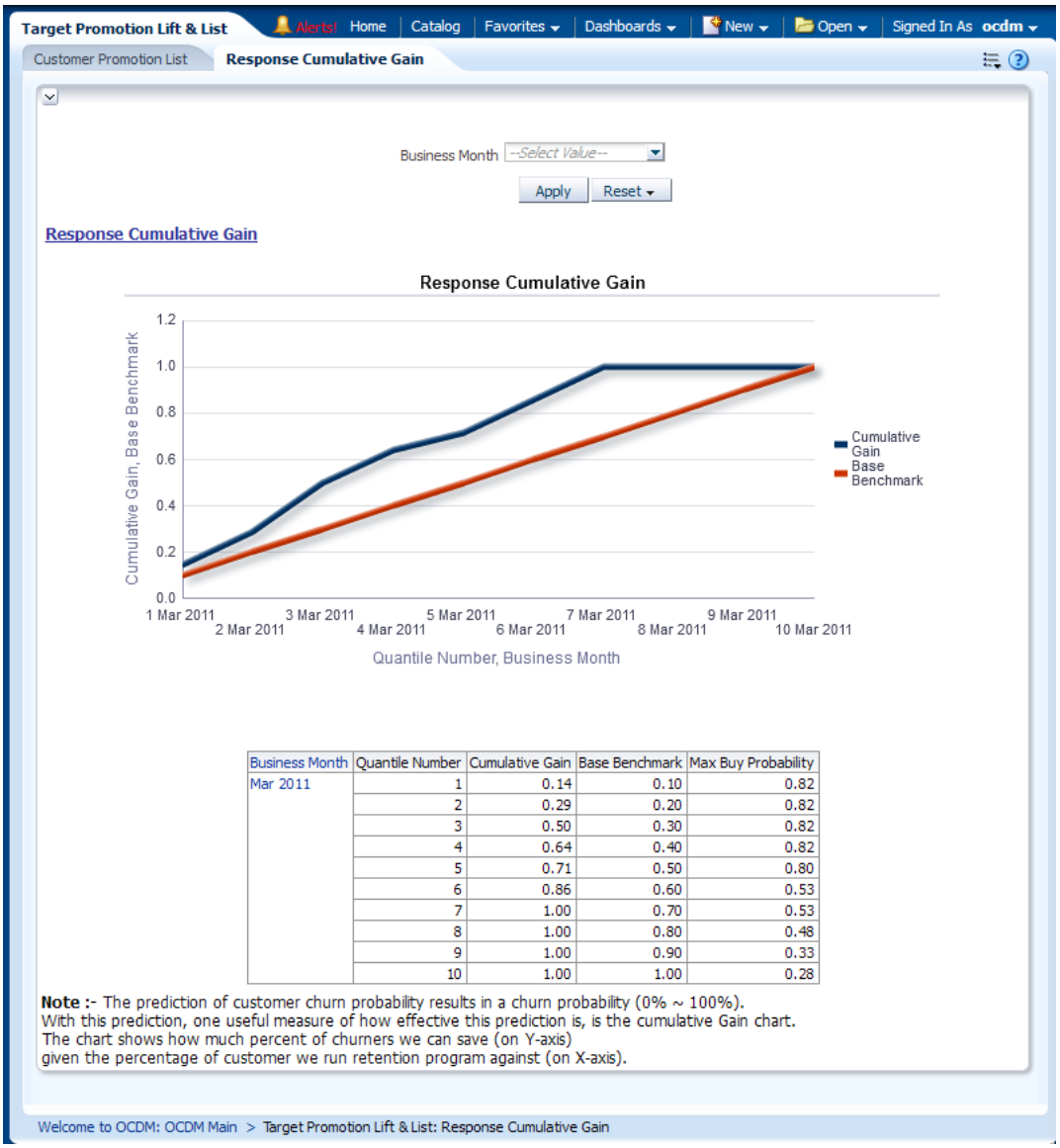
This report as shown in Figure 12–70 shows the Oracle Communications Data Model Churn prediction Model performance; this helps you determine a threshold for the percent of customers to run in the retention program. This retention can be done using phone calls or email. For example, according to the details in Figure 12–70, if the service provider selects 20% of MOST Likely churners according to the Oracle Communications Data Model Churn Prediction model, they can cover about 74% of real churners.

The chart here shows the accuracy of customers so identified under retention program prediction rather than picking on random selection of customers (shown as a straight line).

Report dimensions are:

- Churn SVM ROC

Figure 12–70 Response Cumulative Gain Report



Customer Market Share Analysis

This area includes the report Customer Market Share Report.

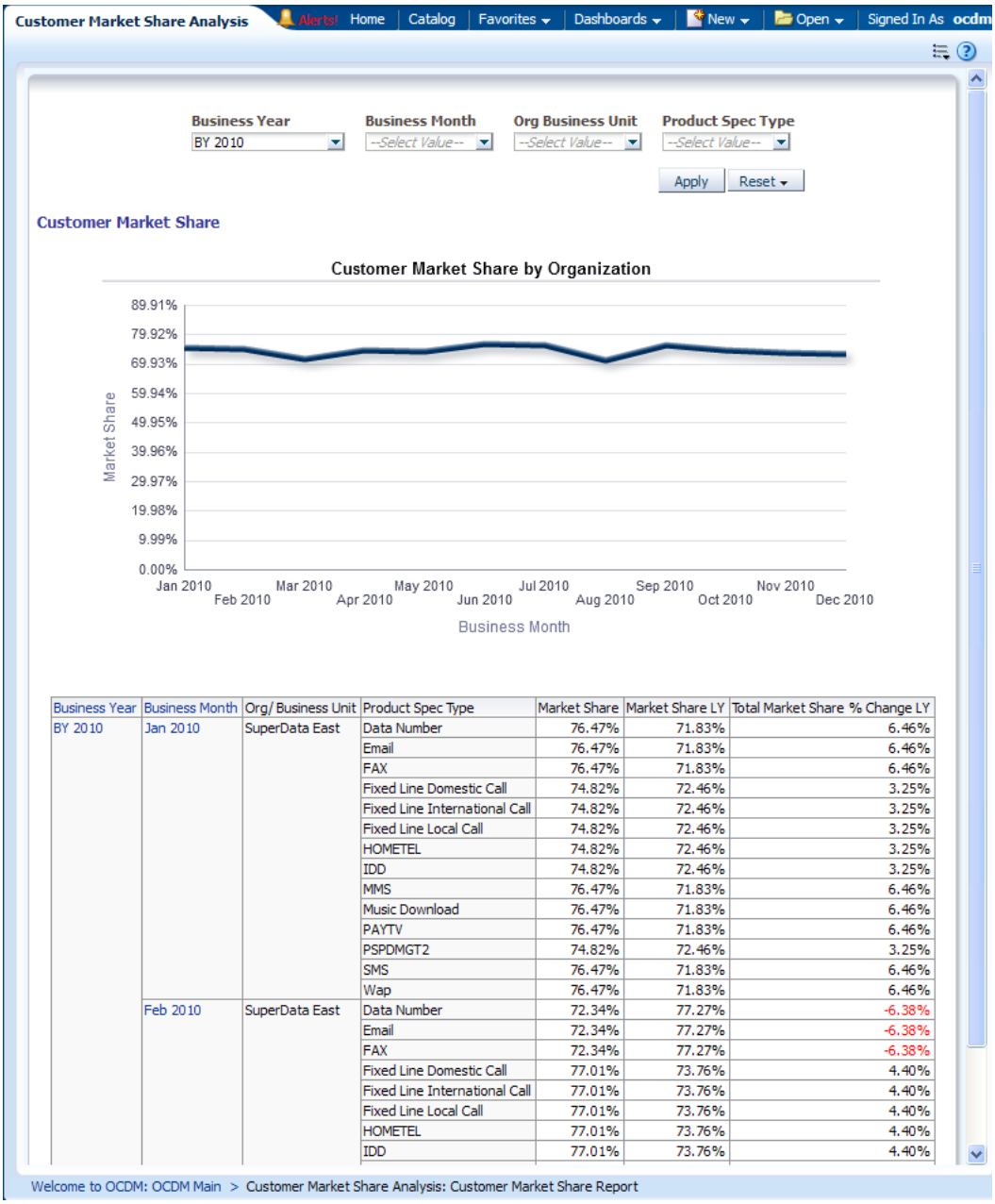
Customer Market Share Report

This report as shown in Figure 12–71 shows month-level Customer Market share, comparing with competitors. The data is acquired from an external marketing source.

Report dimensions are:

- Business Time
- Organization
- Product Specification Type

Figure 12–71 Customer Market Share Analysis Report



Business Year	Business Month	Org/ Business Unit	Product Spec Type	Market Share	Market Share LY	Total Market Share % Change LY
BY 2010	Jan 2010	SuperData East	Data Number	76.47%	71.83%	6.46%
			Email	76.47%	71.83%	6.46%
			FAX	76.47%	71.83%	6.46%
			Fixed Line Domestic Call	74.82%	72.46%	3.25%
			Fixed Line International Call	74.82%	72.46%	3.25%
			Fixed Line Local Call	74.82%	72.46%	3.25%
			HOMETEL	74.82%	72.46%	3.25%
			IDD	74.82%	72.46%	3.25%
			MMS	76.47%	71.83%	6.46%
			Music Download	76.47%	71.83%	6.46%
			PAYTV	76.47%	71.83%	6.46%
			PSPDMGT2	74.82%	72.46%	3.25%
			SMS	76.47%	71.83%	6.46%
			Wap	76.47%	71.83%	6.46%
	Feb 2010	SuperData East	Data Number	72.34%	77.27%	-6.38%
			Email	72.34%	77.27%	-6.38%
			FAX	72.34%	77.27%	-6.38%
			Fixed Line Domestic Call	77.01%	73.76%	4.40%
			Fixed Line International Call	77.01%	73.76%	4.40%
			Fixed Line Local Call	77.01%	73.76%	4.40%
			HOMETEL	77.01%	73.76%	4.40%
			IDD	77.01%	73.76%	4.40%

Current Customer Base Analysis

This area includes the reports: Current Customer Base, Customer Base Organization Share, and Customer Base Product Share.

Current Customer Base

This report, as shown in Figure 12–72 provides month-level transaction activity information based on no of customer measures, for one or more locations.

Report dimensions are:

- Business Time
- Organization

- Product
- Geography

Figure 12–72 Current Customer Base Report

Business Year	Business Month	Customer Count	Customer Count LY	Customer Count % Change LY
BY 2010	Jan 2010	153,278	89,134	71.96%
	Feb 2010	126,567	68,724	84.17%
	Mar 2010	132,459	65,427	102.45%
	Apr 2010	114,933	75,391	52.45%
	May 2010	123,067	81,600	50.82%
	Jun 2010	105,264	87,787	19.91%
	Jul 2010	119,831	150,103	-20.17%
	Aug 2010	117,164	180,885	-35.23%
	Sep 2010	144,056	148,178	-2.78%
	Oct 2010	95,532	114,392	-16.49%
	Nov 2010	133,572	159,537	-16.28%
	Dec 2010	115,458	121,395	-4.89%

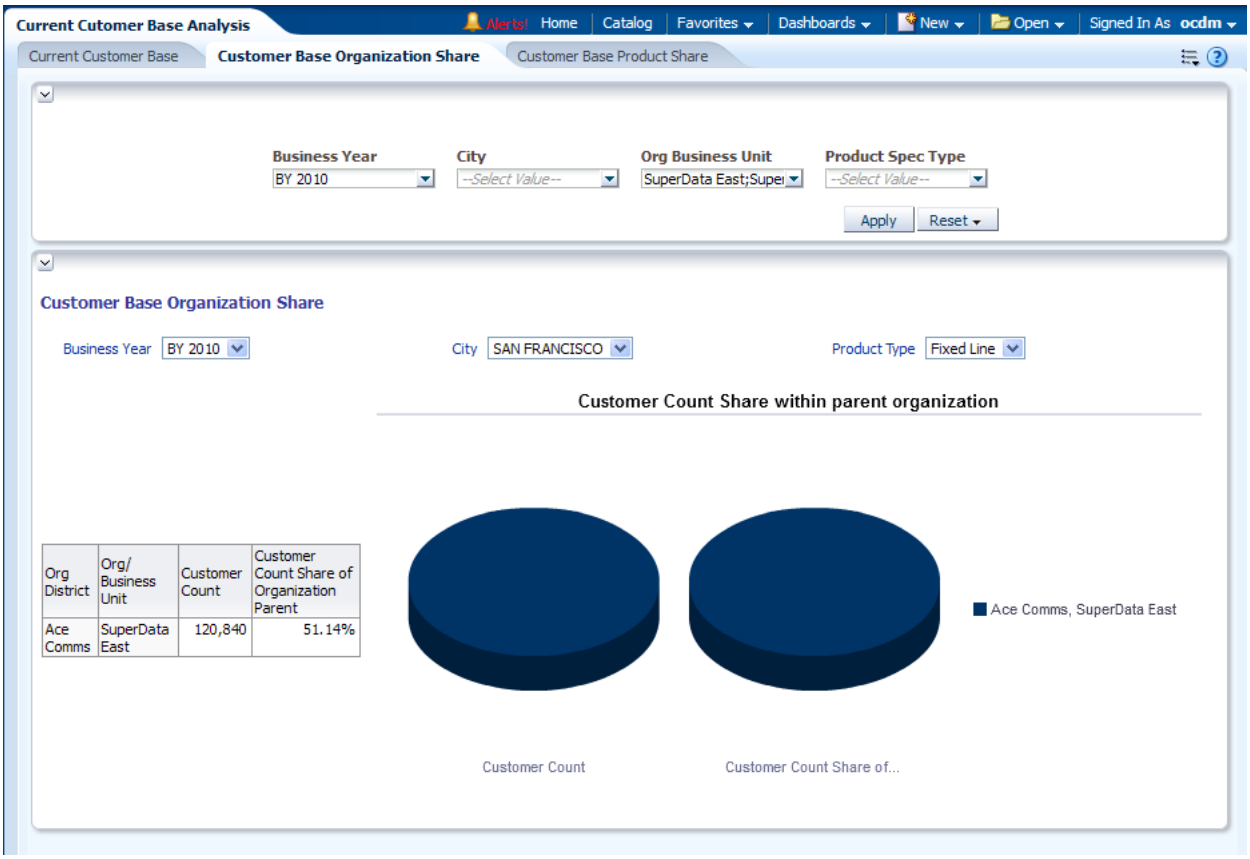
Customer Base Organization Share

This as shown in Figure 12–73 provides month-level number of customers for each organization business unit, and also gives the share of customer count inside their parent organization.

Report dimensions are:

- Business Time
- Organization
- Product Type

Figure 12–73 Customer Base Organization Share Report



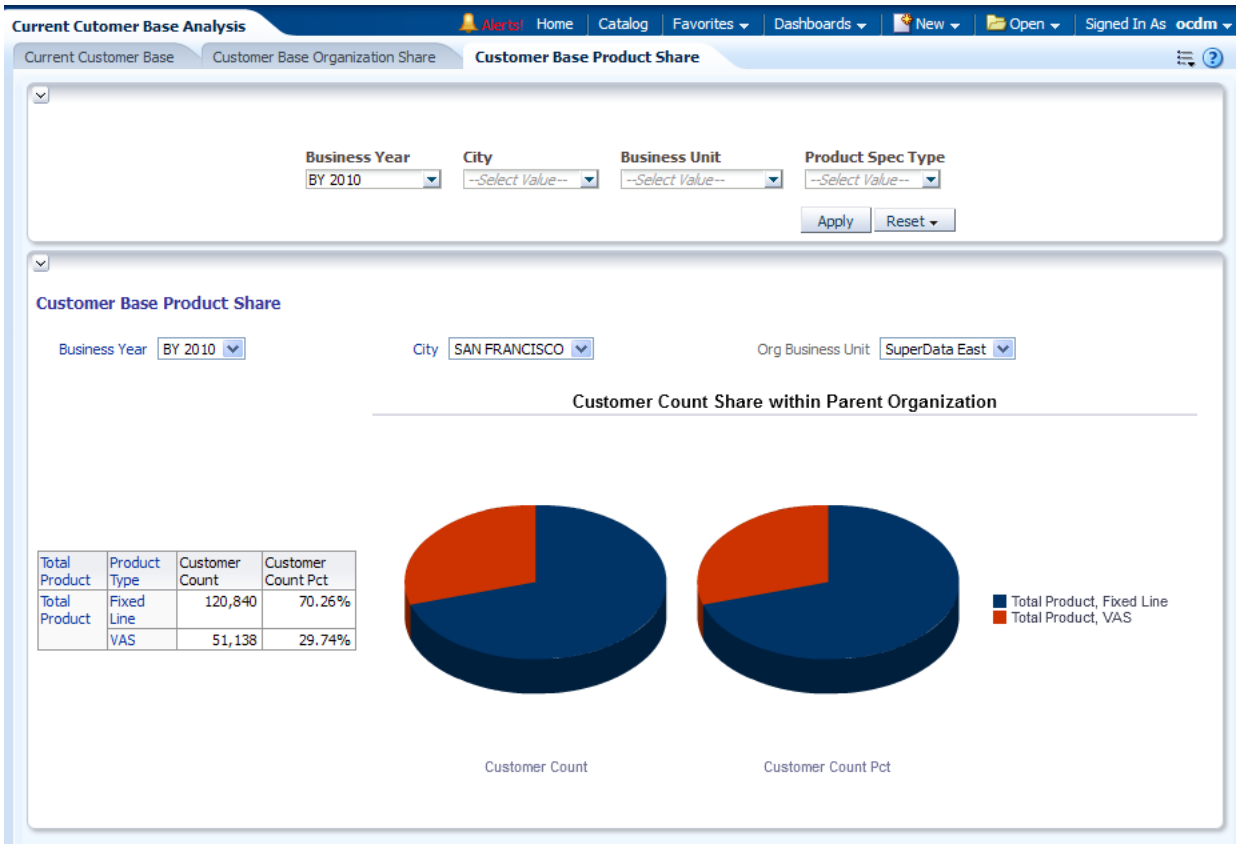
Customer Base Product Share

This as shown in Figure 12–74 provides month-level number of customers for each products (subscription). The customer share of each product is listed for the selected products and organizations.

Report dimensions are:

- Business Time
- Organization
- Product Type

Figure 12–74 Customer Base Product Share Report



Cost and Contribution Reports

The cost and contribution reports include the following areas: Operational Finance Analysis and Profitability Analysis.

This area includes the following:

- Operational Finance Analysis
- Profitability Analysis

Operational Finance Analysis

This area includes the reports: Operating Cost, Average Operating Cost per Customer, Average operating Cost per Employee, Investment Cost, Advertising Cost Report, and Average Cost of Controlling Attrition per Employee.

Operating Cost

This report, as shown in Figure 12–75 and Figure 12–76 provide the current year month-level "Operating Cost" information for each organization business unit. The report also ranks all organization business units according to their cost in their parent "Organization". The end user can compare the cost with last years metrics such as: LY, % Change LY, YTD, YTD LY, YTD % Change LY.

Report dimensions are:

- Business Time

- Organization

Figure 12–75 Operating Cost Report (left side of report)

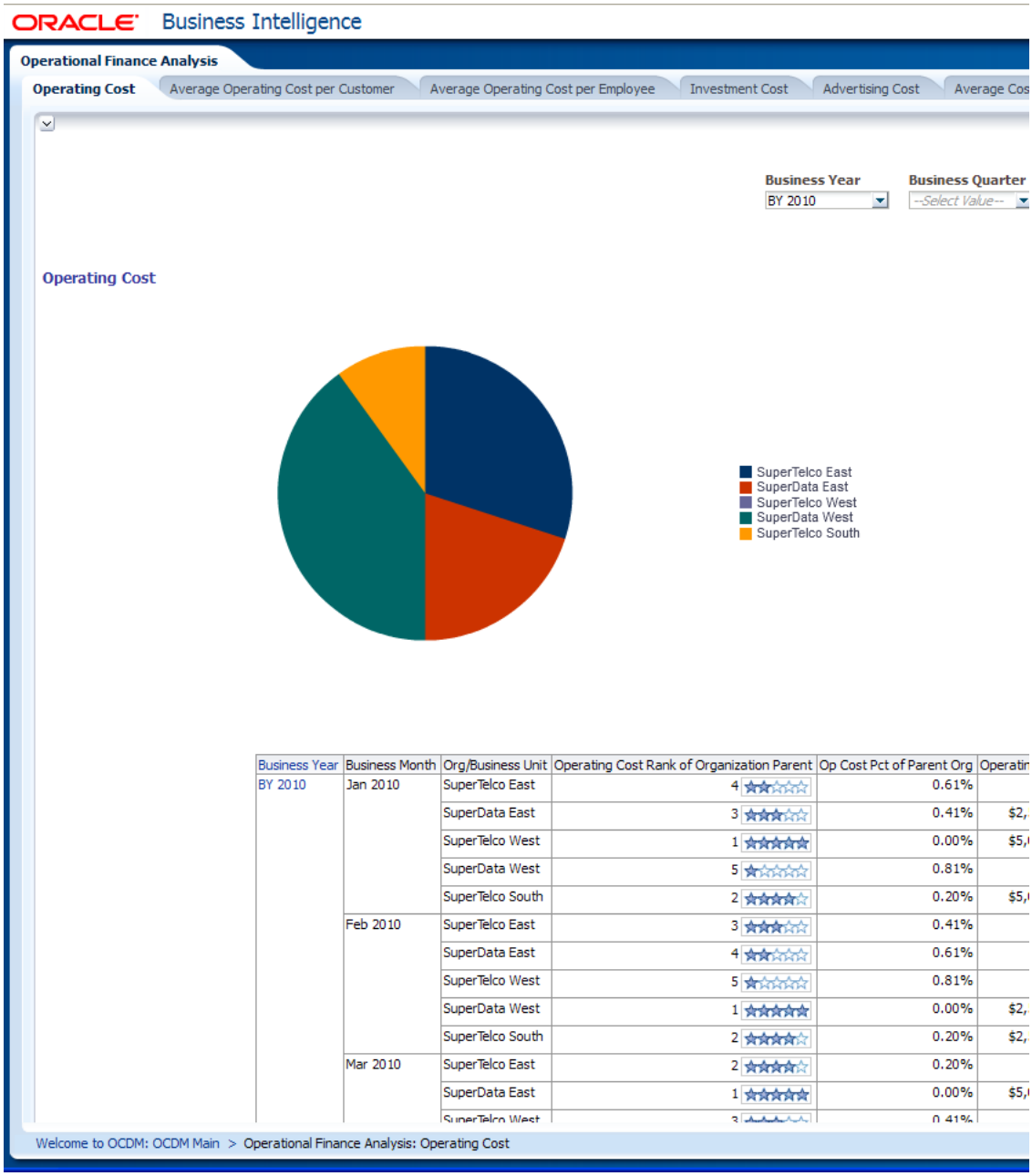
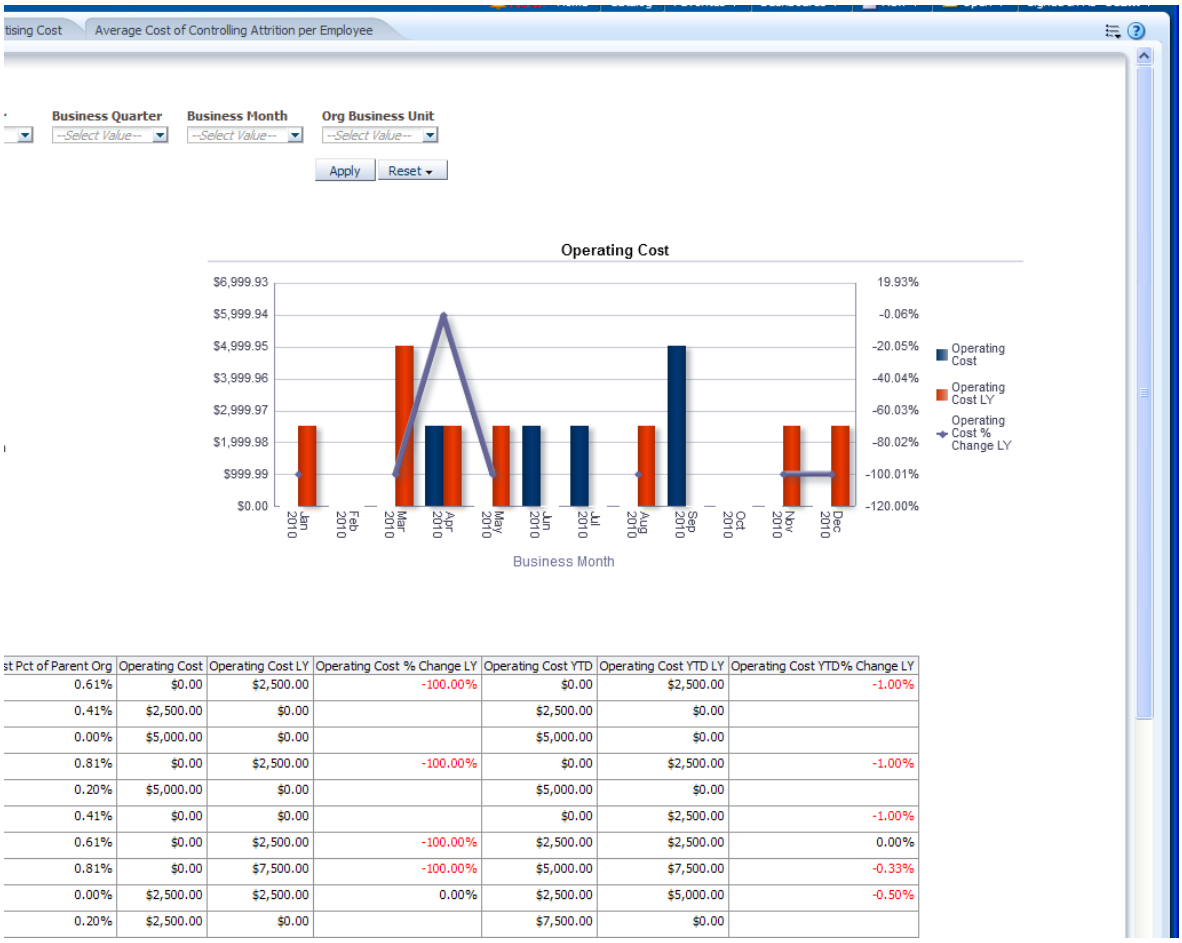


Figure 12–76 Operating Cost Report (right side of report)



st Pct of Parent Org	Operating Cost	Operating Cost LY	Operating Cost % Change LY	Operating Cost YTD	Operating Cost YTD LY	Operating Cost YTD% Change LY
0.61%	$0.00	$2,500.00	-100.00%	$0.00	$2,500.00	-1.00%
0.41%	$2,500.00	$0.00		$2,500.00	$0.00	
0.00%	$5,000.00	$0.00		$5,000.00	$0.00	
0.81%	$0.00	$2,500.00	-100.00%	$0.00	$2,500.00	-1.00%
0.20%	$5,000.00	$0.00		$5,000.00	$0.00	
0.41%	$0.00	$0.00		$0.00	$2,500.00	-1.00%
0.61%	$0.00	$2,500.00	-100.00%	$2,500.00	$2,500.00	0.00%
0.81%	$0.00	$7,500.00	-100.00%	$5,000.00	$7,500.00	-0.33%
0.00%	$2,500.00	$2,500.00	0.00%	$2,500.00	$5,000.00	-0.50%
0.20%	$2,500.00	$0.00		$7,500.00	$0.00	

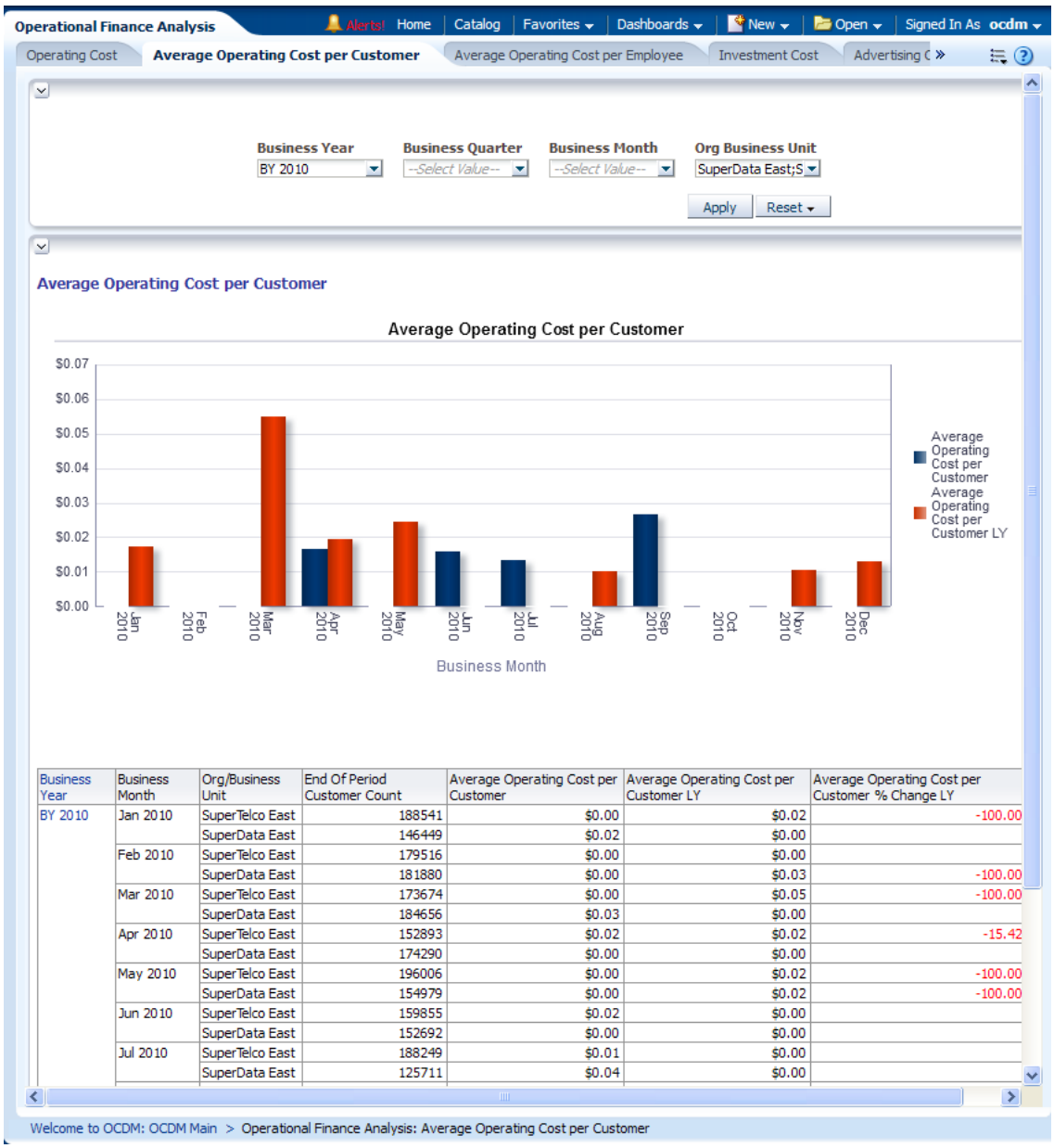
Average Operating Cost per Customer

This report, as shown in Figure 12–77 provides the current year month-level "Average Operating Cost per Customer" information based on "Organization Unit" which can be compared with last years metrics like LY, % Change LY.

Report dimensions are:

- Business Time
- Organization

Figure 12–77 Average Operating Cost per Customer Report



Business Year	Business Month	Org/Business Unit	End Of Period Customer Count	Average Operating Cost per Customer	Average Operating Cost per Customer LY	Average Operating Cost per Customer % Change LY
BY 2010	Jan 2010	SuperTelco East	188541	$0.00	$0.02	-100.00
		SuperData East	146449	$0.02	$0.00	
	Feb 2010	SuperTelco East	179516	$0.00	$0.00	
		SuperData East	181880	$0.00	$0.03	-100.00
	Mar 2010	SuperTelco East	173674	$0.00	$0.05	-100.00
		SuperData East	184656	$0.03	$0.00	
	Apr 2010	SuperTelco East	152893	$0.02	$0.02	-15.42
		SuperData East	174290	$0.00	$0.00	
	May 2010	SuperTelco East	196006	$0.00	$0.02	-100.00
		SuperData East	154979	$0.00	$0.02	-100.00
	Jun 2010	SuperTelco East	159855	$0.02	$0.00	
		SuperData East	152692	$0.00	$0.00	
	Jul 2010	SuperTelco East	188249	$0.01	$0.00	
		SuperData East	125711	$0.04	$0.00	

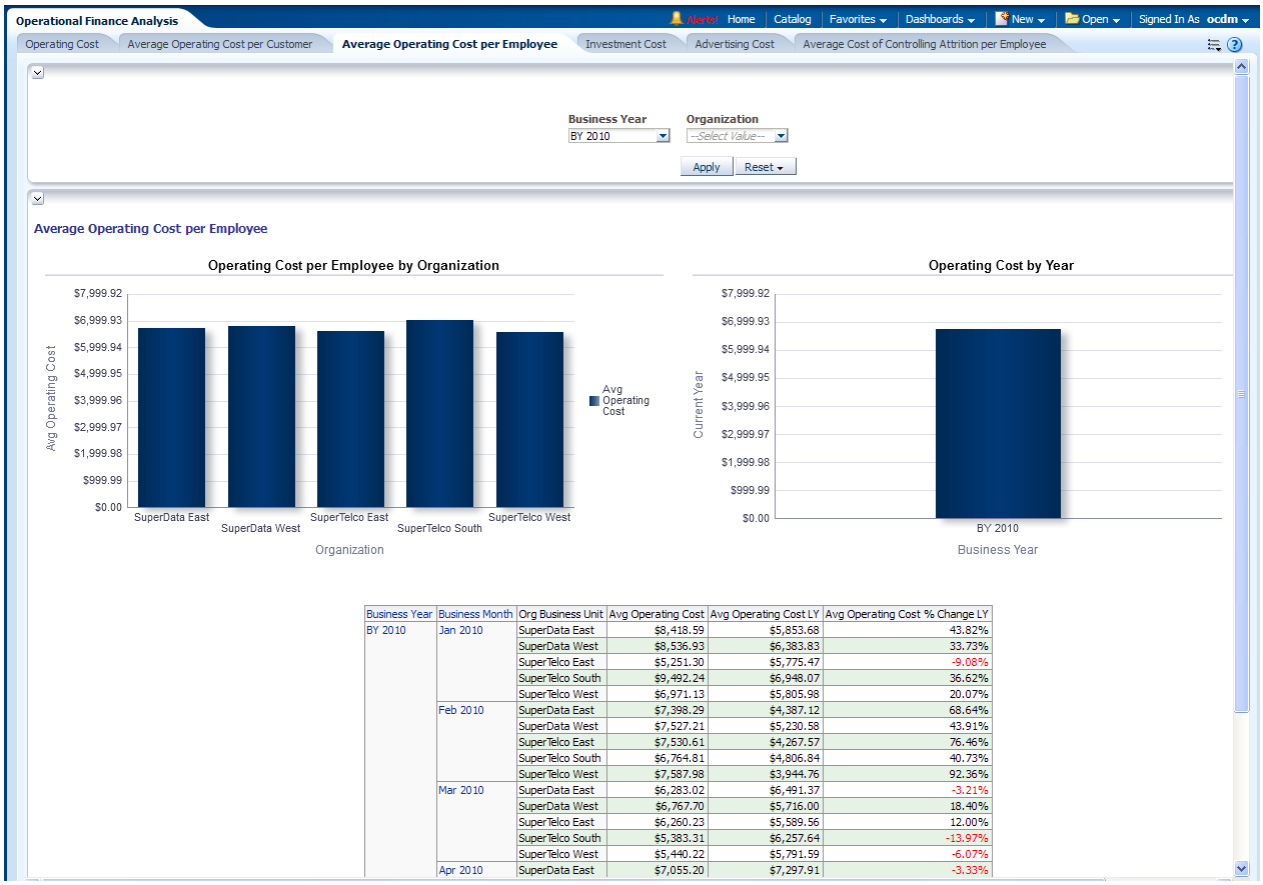
Average operating Cost per Employee

This report, as shown in Figure 12–78 provides the current year "Average Operating Cost per Employee" information based on "Organization Business Unit" which can be compared with last years metrics such as: LY, % Change LY.

Report dimensions are:

- Business Time
- Organization

Figure 12–78 Cost: Average Operating Cost per Employee



Business Year	Business Month	Org Business Unit	Avg Operating Cost	Avg Operating Cost LY	Avg Operating Cost % Change LY
BY 2010	Jan 2010	SuperData East	$8,418.59	$5,853.68	43.82%
		SuperData West	$8,536.93	$6,383.83	33.73%
		SuperTelco East	$5,251.30	$5,775.47	-9.08%
		SuperTelco South	$9,492.24	$6,948.07	36.62%
		SuperTelco West	$6,971.13	$5,805.98	20.07%
	Feb 2010	SuperData East	$7,398.29	$4,387.12	68.64%
		SuperData West	$7,527.21	$5,230.58	43.91%
		SuperTelco East	$7,530.61	$4,267.57	76.46%
		SuperTelco South	$6,764.81	$4,806.84	40.73%
		SuperTelco West	$7,587.98	$3,944.76	92.36%
	Mar 2010	SuperData East	$6,283.02	$6,491.37	-3.21%
		SuperData West	$6,767.70	$5,716.00	18.40%
		SuperTelco East	$6,260.23	$5,589.56	12.00%
		SuperTelco South	$5,383.31	$6,257.64	-13.97%
		SuperTelco West	$5,440.22	$5,791.59	-6.07%
	Apr 2010	SuperData East	$7,055.20	$7,297.91	-3.33%

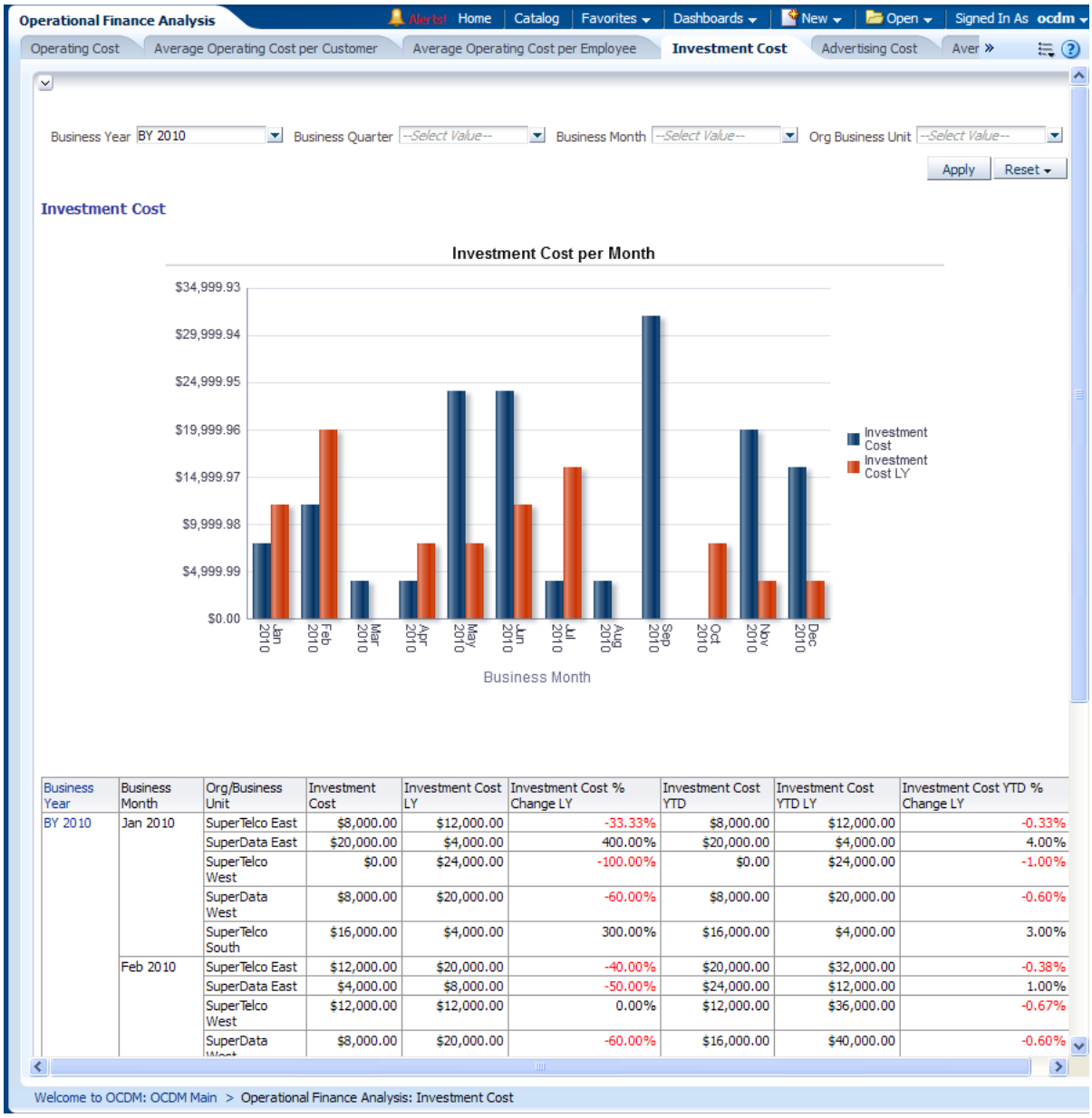
Investment Cost

This report, as shown in Figure 12–79 provides the current year month-level "Investment Cost" and "Investment Cost share of parent Organization" information based on "Organization Unit and district" which can be compared with last years metrics like LY, % Change LY, YTD, YTD LY and YTD % Change LY.

Report dimensions are:

- Business Time
- Organization

Figure 12–79 Investment Cost Report



Business Year	Business Month	Org/Business Unit	Investment Cost	Investment Cost LY	Investment Cost % Change LY	Investment Cost YTD	Investment Cost YTD LY	Investment Cost YTD % Change LY
BY 2010	Jan 2010	SuperTelco East	$8,000.00	$12,000.00	-33.33%	$8,000.00	$12,000.00	-0.33%
		SuperData East	$20,000.00	$4,000.00	400.00%	$20,000.00	$4,000.00	4.00%
		SuperTelco West	$0.00	$24,000.00	-100.00%	$0.00	$24,000.00	-1.00%
		SuperData West	$8,000.00	$20,000.00	-60.00%	$8,000.00	$20,000.00	-0.60%
		SuperTelco South	$16,000.00	$4,000.00	300.00%	$16,000.00	$4,000.00	3.00%
	Feb 2010	SuperTelco East	$12,000.00	$20,000.00	-40.00%	$20,000.00	$32,000.00	-0.38%
		SuperData East	$4,000.00	$8,000.00	-50.00%	$24,000.00	$12,000.00	1.00%
		SuperTelco West	$12,000.00	$12,000.00	0.00%	$12,000.00	$36,000.00	-0.67%
		SuperData	$8,000.00	$20,000.00	-60.00%	$16,000.00	$40,000.00	-0.60%

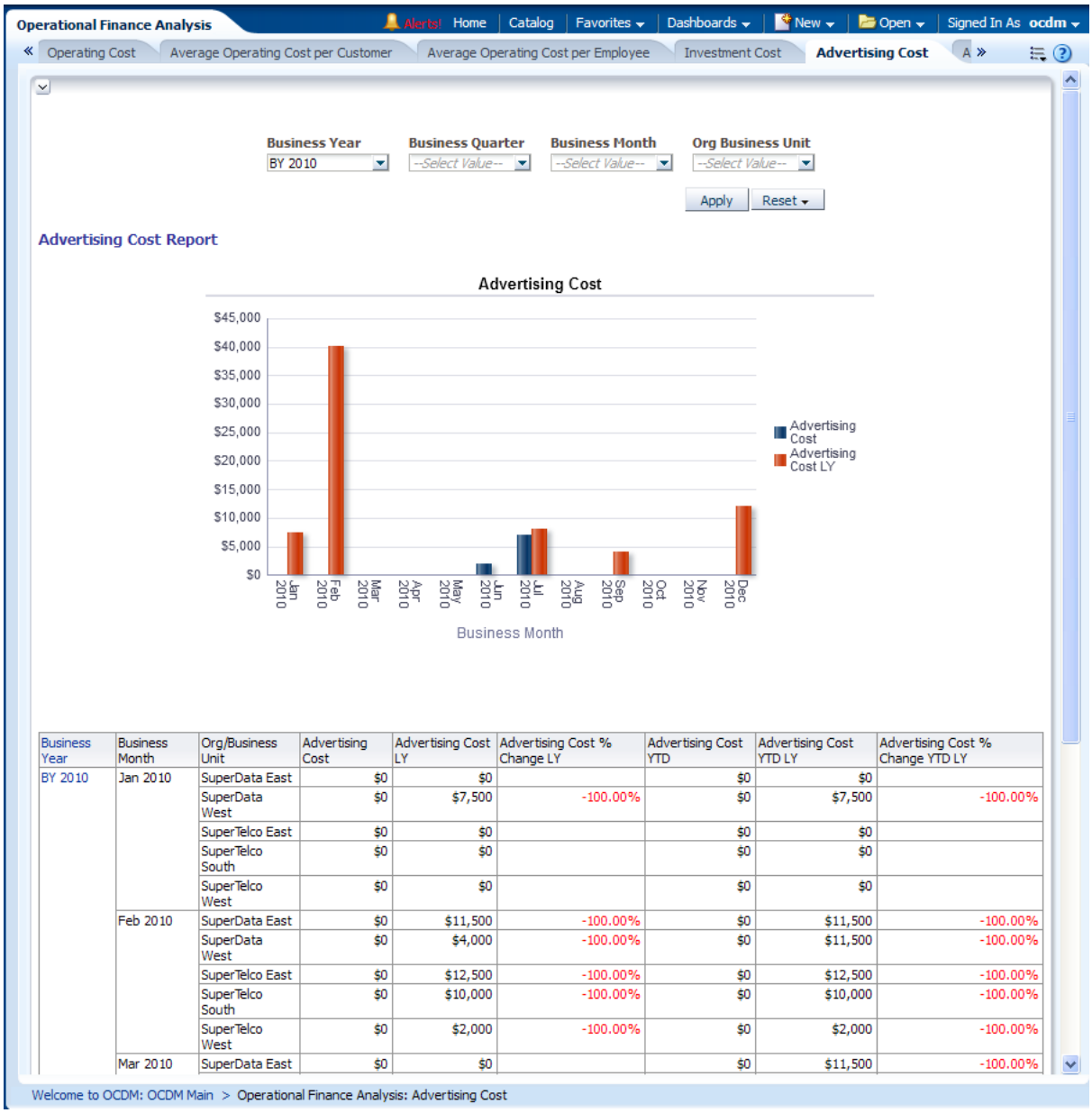
Advertising Cost Report

This report, as shown in Figure 12–80 provides the current year month-level "Advertising Cost" information based on "Organization Parent" which internally can be compared with last years metrics like LY,% Change LY, YTD, YTD LY, YTD % Change LY.

Report dimensions are:

- Business Time
- Organization

Figure 12–80 Advertising Cost Report Report



Business Year	Business Month	Org/Business Unit	Advertising Cost	Advertising Cost LY	Advertising Cost % Change LY	Advertising Cost YTD	Advertising Cost YTD LY	Advertising Cost % Change YTD LY
BY 2010	Jan 2010	SuperData East	$0	$0		$0	$0	
		SuperData West	$0	$7,500	-100.00%	$0	$7,500	-100.00%
		SuperTelco East	$0	$0		$0	$0	
		SuperTelco South	$0	$0		$0	$0	
		SuperTelco West	$0	$0		$0	$0	
	Feb 2010	SuperData East	$0	$11,500	-100.00%	$0	$11,500	-100.00%
		SuperData West	$0	$4,000	-100.00%	$0	$11,500	-100.00%
		SuperTelco East	$0	$12,500	-100.00%	$0	$12,500	-100.00%
		SuperTelco South	$0	$10,000	-100.00%	$0	$10,000	-100.00%
		SuperTelco West	$0	$2,000	-100.00%	$0	$2,000	-100.00%
	Mar 2010	SuperData East	$0	$0		$0	$11,500	-100.00%

Average Cost of Controlling Attrition per Employee

This report, as shown in Figure 12–81 and Figure 12–82 provide the current year Level "Controlling Attribution by organization" and "Yearly Controlling Attribution" information based on "Organization" which can be compared with last years metrics like LY and % Change LY.

The attrition cost should be defined by the service operator.

Report dimensions are:

- Business Time
- Organization
- Product

Figure 12–81 Average Cost of Controlling Attrition per Employee (left side of screen)

Figure 12–82 Average Cost of Controlling Attrition per Employee (right side of screen)

Avg Cost Of Controlling Attrition	Avg Cost Of Controlling Attrition LY	Avg Controlling Attrition Cost % Change LY
$8,418.59	$5,853.68	43.82%
$8,536.93	$6,383.83	33.73%
$5,251.30	$5,775.47	-9.08%
$9,492.24	$6,948.07	36.62%
$6,971.13	$5,805.98	20.07%
$7,398.29	$4,387.12	68.64%
$7,527.21	$5,230.58	43.91%
$7,530.61	$4,267.57	76.46%
$6,764.81	$4,806.84	40.73%
$7,587.98	$3,944.76	92.36%
$6,283.02	$6,491.37	-3.21%
$6,767.70	$5,716.00	18.40%
$6,260.23	$5,589.56	12.00%
$5,383.31	$6,257.64	-13.97%
$5,440.22	$5,791.59	-6.07%
$7,055.20	$7,297.91	-3.33%
$7,174.03	$7,869.68	-8.84%

Profitability Analysis

This area includes the reports: Total Profit, Average Profit per Customer, and Average Profit per Employee.

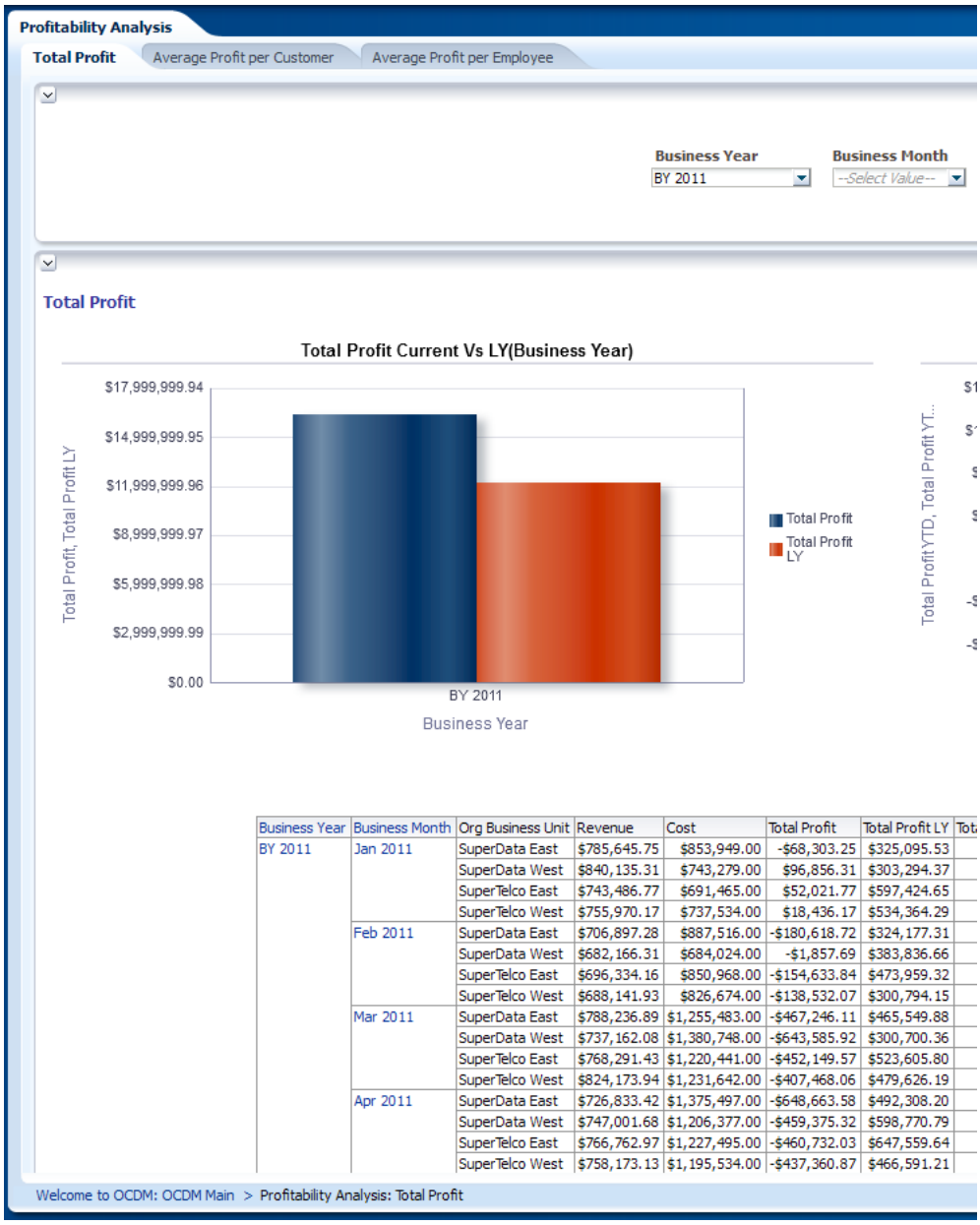
Total Profit

This report, as shown in Figure 12–83 and Figure 12–84 provide the current year and month-level "Total Profit" information based on "Organization" which internally can be compared with last years metrics like LY,% Change LY, YTD, YTD LY, YTD % Change LY.

Report dimensions are:

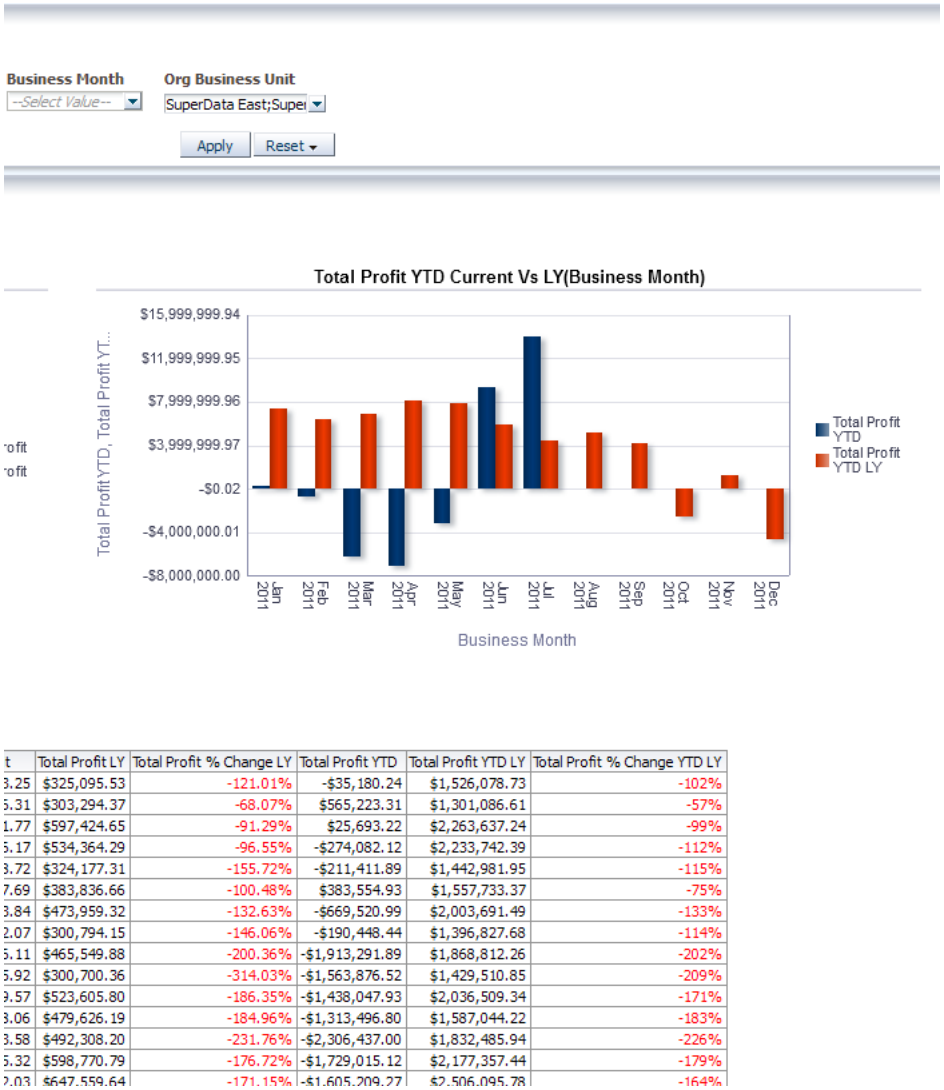
- Business Time
- Organization

Figure 12–83 Total Profit Report (left side of screen)



Business Year	Business Month	Org Business Unit	Revenue	Cost	Total Profit	Total Profit LY	Tot
BY 2011	Jan 2011	SuperData East	$785,645.75	$853,949.00	-$68,303.25	$325,095.53	
		SuperData West	$840,135.31	$743,279.00	$96,856.31	$303,294.37	
		SuperTelco East	$743,486.77	$691,465.00	$52,021.77	$597,424.65	
		SuperTelco West	$755,970.17	$737,534.00	$18,436.17	$534,364.29	
	Feb 2011	SuperData East	$706,897.28	$887,516.00	-$180,618.72	$324,177.31	
		SuperData West	$682,166.31	$684,024.00	-$1,857.69	$383,836.66	
		SuperTelco East	$696,334.16	$850,968.00	-$154,633.84	$473,959.32	
		SuperTelco West	$688,141.93	$826,674.00	-$138,532.07	$300,794.15	
	Mar 2011	SuperData East	$788,236.89	$1,255,483.00	-$467,246.11	$465,549.88	
		SuperData West	$737,162.08	$1,380,748.00	-$643,585.92	$300,700.36	
		SuperTelco East	$768,291.43	$1,220,441.00	-$452,149.57	$523,605.80	
		SuperTelco West	$824,173.94	$1,231,642.00	-$407,468.06	$479,626.19	
	Apr 2011	SuperData East	$726,833.42	$1,375,497.00	-$648,663.58	$492,308.20	
		SuperData West	$747,001.68	$1,206,377.00	-$459,375.32	$598,770.79	
		SuperTelco East	$766,762.97	$1,227,495.00	-$460,732.03	$647,559.64	
		SuperTelco West	$758,173.13	$1,195,534.00	-$437,360.87	$466,591.21	

Figure 12–84 Total Profit Report (right side of screen)



t	Total Profit LY	Total Profit % Change LY	Total Profit YTD	Total Profit YTD LY	Total Profit % Change YTD LY
3.25	$325,095.53	-121.01%	-$35,180.24	$1,526,078.73	-102%
5.31	$303,294.37	-68.07%	$565,223.31	$1,301,086.61	-57%
1.77	$597,424.65	-91.29%	$25,693.22	$2,263,637.24	-99%
5.17	$534,364.29	-96.55%	-$274,082.12	$2,233,742.39	-112%
3.72	$324,177.31	-155.72%	-$211,411.89	$1,442,981.95	-115%
7.69	$383,836.66	-100.48%	$383,554.93	$1,557,733.37	-75%
3.84	$473,959.32	-132.63%	-$669,520.99	$2,003,691.49	-133%
2.07	$300,794.15	-146.06%	-$190,448.44	$1,396,827.68	-114%
5.11	$465,549.88	-200.36%	-$1,913,291.89	$1,868,812.26	-202%
5.92	$300,700.36	-314.03%	-$1,563,876.52	$1,429,510.85	-209%
9.57	$523,605.80	-186.35%	-$1,438,047.93	$2,036,509.34	-171%
3.06	$479,626.19	-184.96%	-$1,313,496.80	$1,587,044.22	-183%
3.58	$492,308.20	-231.76%	-$2,306,437.00	$1,832,485.94	-226%
5.32	$598,770.79	-176.72%	-$1,729,015.12	$2,177,357.44	-179%
2.03	$647,559.64	-171.15%	-$1,605,209.27	$2,506,095.78	-164%

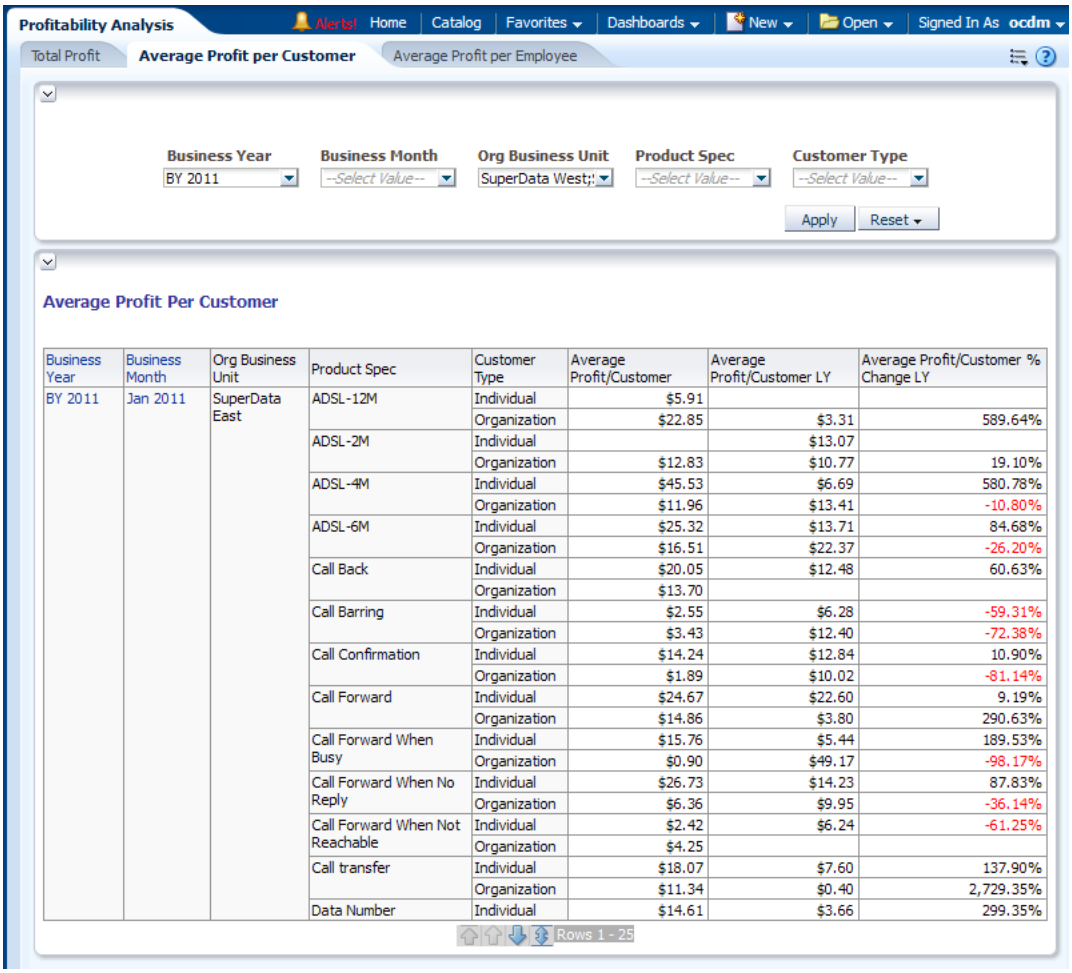
Average Profit per Customer

This report, as shown in Figure 12–85 provides the current year and month-level "Average Profit" information based on "Customer" and "Customer by Product" which internally can be compared with metrics such as LY, % Change LY for last year.

Report dimensions are:

- Business Time
- Organization
- Product
- Customer Type

Figure 12–85 Profit: Average Profit per Customer Report



Business Year	Business Month	Org Business Unit	Product Spec	Customer Type	Average Profit/Customer	Average Profit/Customer LY	Average Profit/Customer % Change LY
BY 2011	Jan 2011	SuperData East	ADSL-12M	Individual	$5.91		
				Organization	$22.85	$3.31	589.64%
			ADSL-2M	Individual		$13.07	
				Organization	$12.83	$10.77	19.10%
			ADSL-4M	Individual	$45.53	$6.69	580.78%
				Organization	$11.96	$13.41	-10.80%
			ADSL-6M	Individual	$25.32	$13.71	84.68%
				Organization	$16.51	$22.37	-26.20%
			Call Back	Individual	$20.05	$12.48	60.63%
				Organization	$13.70		
			Call Barring	Individual	$2.55	$6.28	-59.31%
				Organization	$3.43	$12.40	-72.38%
			Call Confirmation	Individual	$14.24	$12.84	10.90%
				Organization	$1.89	$10.02	-81.14%
			Call Forward	Individual	$24.67	$22.60	9.19%
				Organization	$14.86	$3.80	290.63%
			Call Forward When Busy	Individual	$15.76	$5.44	189.53%
				Organization	$0.90	$49.17	-98.17%
			Call Forward When No Reply	Individual	$26.73	$14.23	87.83%
				Organization	$6.36	$9.95	-36.14%
			Call Forward When Not Reachable	Individual	$2.42	$6.24	-61.25%
				Organization	$4.25		
			Call transfer	Individual	$18.07	$7.60	137.90%
				Organization	$11.34	$0.40	2,729.35%
			Data Number	Individual	$14.61	$3.66	299.35%

Average Profit per Employee

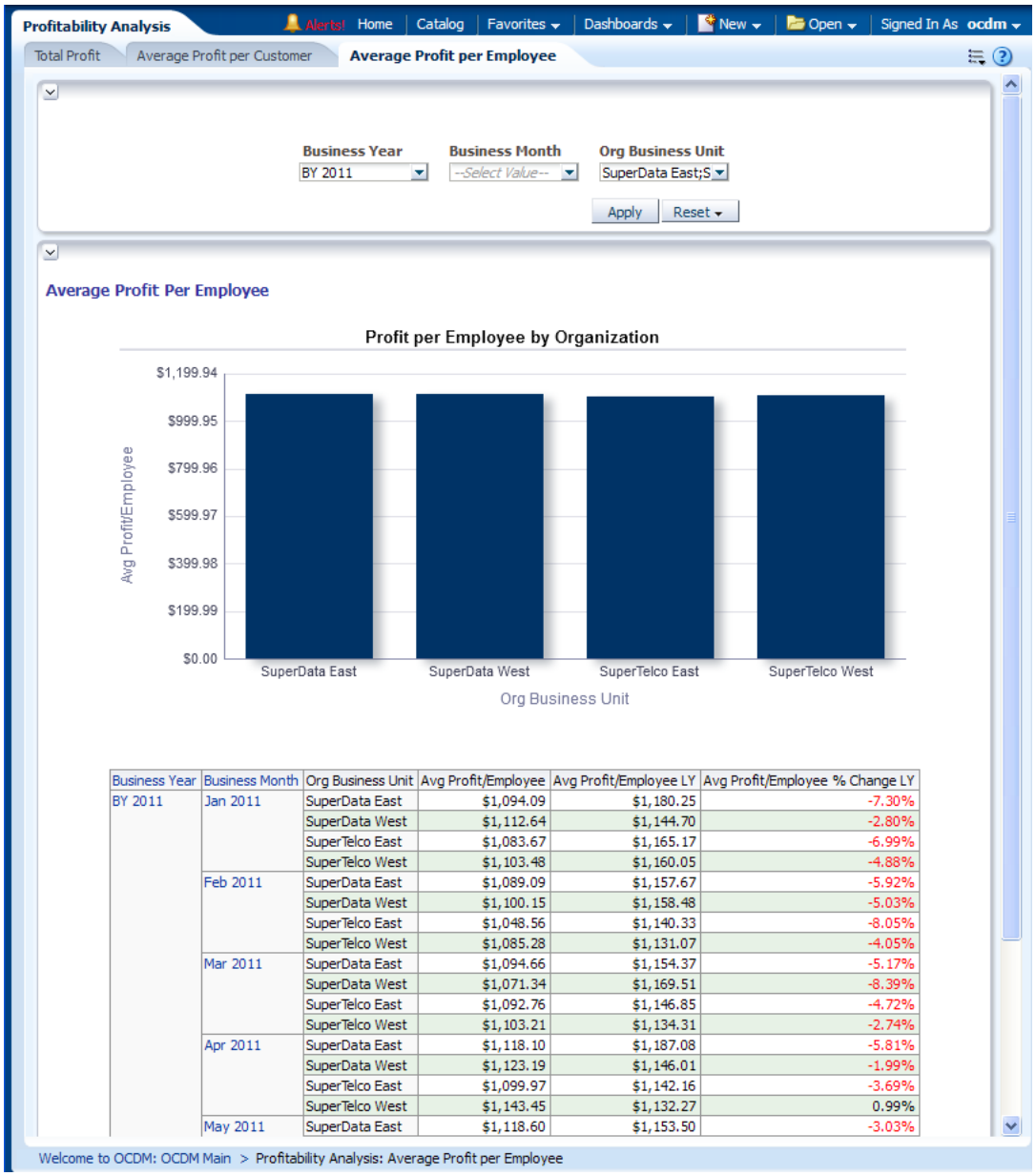
This report, as shown in Figure 12–86 provides the current year and month-level "Average Profit" information based on "Employee" and "Org Business Unit" which can be compared with last years metrics like LY, % Change LY.

The average profit is calculated by dividing the total profit by the number of employees.

Report dimensions are:

- Business Time
- Organization
- Product
- Customer Type

Figure 12–86 Profit: Average Profit per Employee Report



Business Year	Business Month	Org Business Unit	Avg Profit/Employee	Avg Profit/Employee LY	Avg Profit/Employee % Change LY
BY 2011	Jan 2011	SuperData East	$1,094.09	$1,180.25	-7.30%
		SuperData West	$1,112.64	$1,144.70	-2.80%
		SuperTelco East	$1,083.67	$1,165.17	-6.99%
		SuperTelco West	$1,103.48	$1,160.05	-4.88%
	Feb 2011	SuperData East	$1,089.09	$1,157.67	-5.92%
		SuperData West	$1,100.15	$1,158.48	-5.03%
		SuperTelco East	$1,048.56	$1,140.33	-8.05%
		SuperTelco West	$1,085.28	$1,131.07	-4.05%
	Mar 2011	SuperData East	$1,094.66	$1,154.37	-5.17%
		SuperData West	$1,071.34	$1,169.51	-8.39%
		SuperTelco East	$1,092.76	$1,146.85	-4.72%
		SuperTelco West	$1,103.21	$1,134.31	-2.74%
	Apr 2011	SuperData East	$1,118.10	$1,187.08	-5.81%
		SuperData West	$1,123.19	$1,146.01	-1.99%
		SuperTelco East	$1,099.97	$1,142.16	-3.69%
		SuperTelco West	$1,143.45	$1,132.27	0.99%
	May 2011	SuperData East	$1,118.60	$1,153.50	-3.03%

Partner Management Reports

The partner management reports include the following areas:

- Roaming Partner Settlement
- Churn Outliner by Partner
- Partner Content Sales
- Commissions

Roaming Partner Settlement

This area includes the report Roaming Partner Settlement Summary.

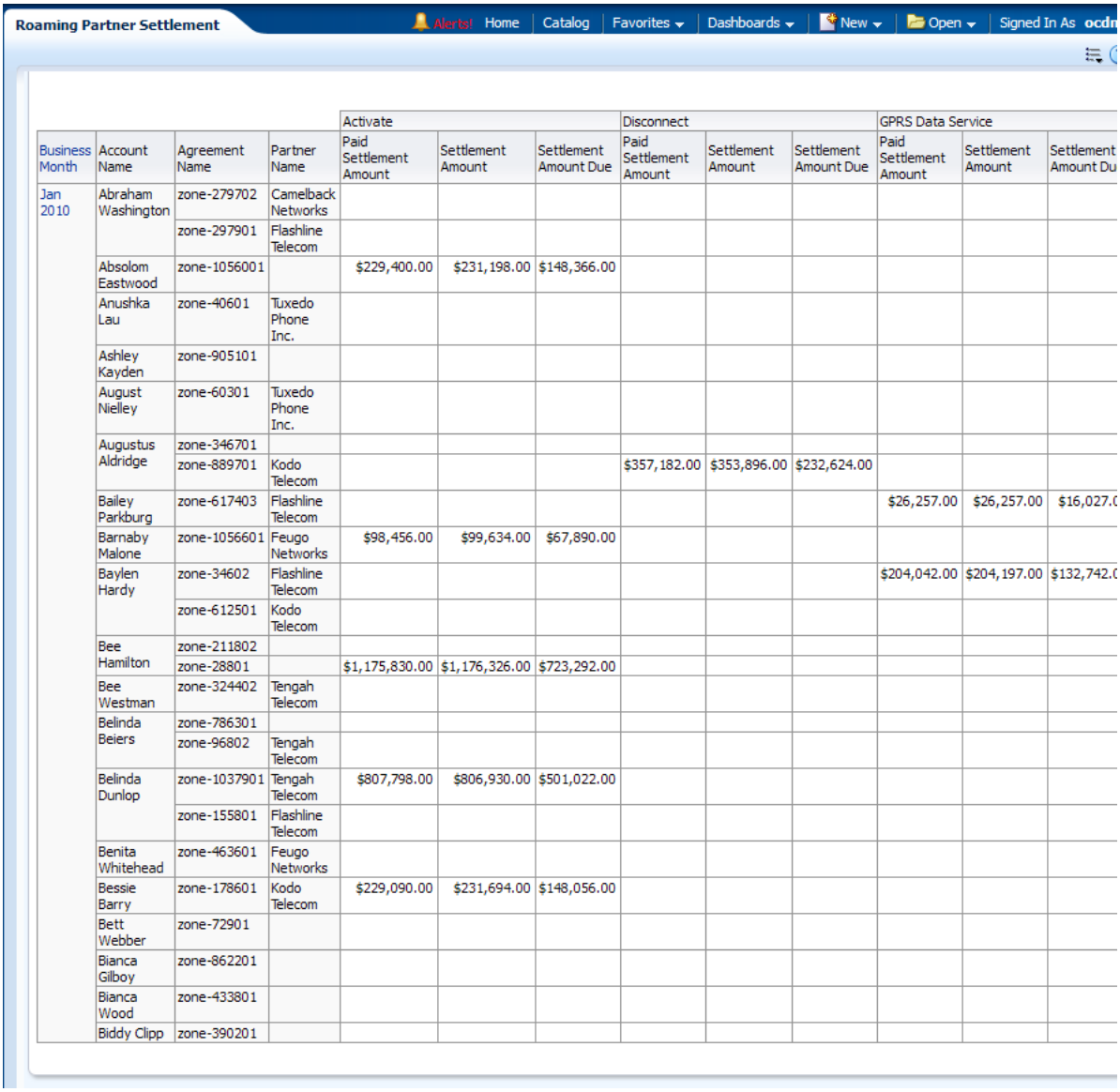
Roaming Partner Settlement Summary

This report, as shown in Figure 12–87 provides month-level transaction activity information based on partner settlement measures, for one or more location. This report shows summary over financial settlement activities happened to partners.

Report dimensions are:

- Business Time
- Geography
- Billing Cycle
- Event Type
- Account
- Party
- Contract

Figure 12–87 Roaming Partner Settlement Summary Report



				Activate			Disconnect			GPRS Data Service		
Business Month	Account Name	Agreement Name	Partner Name	Paid Settlement Amount	Settlement Amount	Settlement Amount Due	Paid Settlement Amount	Settlement Amount	Settlement Amount Due	Paid Settlement Amount	Settlement Amount	Settlement Amount Du
Jan 2010	Abraham Washington	zone-279702	Camelback Networks									
		zone-297901	Flashline Telecom									
	Absolom Eastwood	zone-1056001		$229,400.00	$231,198.00	$148,366.00						
	Anushka Lau	zone-40601	Tuxedo Phone Inc.									
	Ashley Kayden	zone-905101										
	August Nielley	zone-60301	Tuxedo Phone Inc.									
	Augustus Aldridge	zone-346701										
		zone-889701	Kodo Telecom				$357,182.00	$353,896.00	$232,624.00			
	Bailey Parkburg	zone-617403	Flashline Telecom							$26,257.00	$26,257.00	$16,027.0
	Barnaby Malone	zone-1056601	Feugo Networks	$98,456.00	$99,634.00	$67,890.00						
	Baylen Hardy	zone-34602	Flashline Telecom							$204,042.00	$204,197.00	$132,742.0
		zone-612501	Kodo Telecom									
	Bee Hamilton	zone-211802										
		zone-28801		$1,175,830.00	$1,176,326.00	$723,292.00						
	Bee Westman	zone-324402	Tengah Telecom									
	Belinda Beiers	zone-786301										
		zone-96802	Tengah Telecom									
	Belinda Dunlop	zone-1037901	Tengah Telecom	$807,798.00	$806,930.00	$501,022.00						
		zone-155801	Flashline Telecom									
	Benita Whitehead	zone-463601	Feugo Networks									
	Bessie Barry	zone-178601	Kodo Telecom	$229,090.00	$231,694.00	$148,056.00						
	Bett Webber	zone-72901										
	Bianca Gilboy	zone-862201										
	Bianca Wood	zone-433801										
	Biddy Clipp	zone-390201										

Churn Outliner by Partner

This area include the report: Churn Outliner by Partner and Track Dealer Commission and Performance.

Churn Outliner by Partner

This report, as shown in Figure 12–88 provides year-level transaction activity information based on average churn rate for customer measures, for one or more sales channel.

This demonstrates statistically significant anomalies in churn rate by sales channel or partners (for example which channel records maximum churn) This can help identify problem area domains and facilitates further drill down to identify the cause of the problems (network problems and other problems) and take remedial actions to prevent churns. Actions could be further training or education to the partners, empowering them to offer additional incentives or discounts.

Report dimensions are:

- Business Time
- Sales Channel

Figure 12–88 Churn Outliner by Partner Report

Business Year	Business Month	Sales Name	Churn Rate - Customer	Churn Rate - Customer LY	Churn Rate - Customer YTD
BY 2011	Jan 2011	Deft Cellular	2.21	2.12%	2.25%
		Giraffe Cellular	2.18	2.25%	2.16%
		Golden Handsets	2.15	2.14%	2.18%
		Mobile USA	2.24	2.20%	2.27%
		Rain Mobile	2.12	2.16%	2.11%
		Sail Mobile	2.07	2.15%	2.08%
		World Mobile	2.17	2.15%	2.14%
	Feb 2011	Deft Cellular	2.23	2.13%	2.22%
		Giraffe Cellular	2.08	2.15%	2.07%
		Golden Handsets	2.15	2.18%	2.11%
		Mobile USA	2.20	2.08%	2.18%
		Rain Mobile	2.21	2.30%	2.25%
		Sail Mobile	2.24	2.23%	2.19%
		World Mobile	2.19	2.24%	2.13%
	Mar 2011	Deft Cellular	2.14	2.18%	2.10%
		Giraffe Cellular	2.17	2.16%	2.17%
		Golden Handsets	2.13	2.16%	2.13%
		Mobile USA	2.20	2.16%	2.24%
		Rain Mobile	2.20	2.18%	2.18%
		Sail Mobile	2.18	2.11%	2.24%
		World Mobile	2.19	2.19%	2.15%
	Apr 2011	Deft Cellular	2.09	2.14%	2.09%

Partner Content Sales

This area includes the report Partner Content Sales.

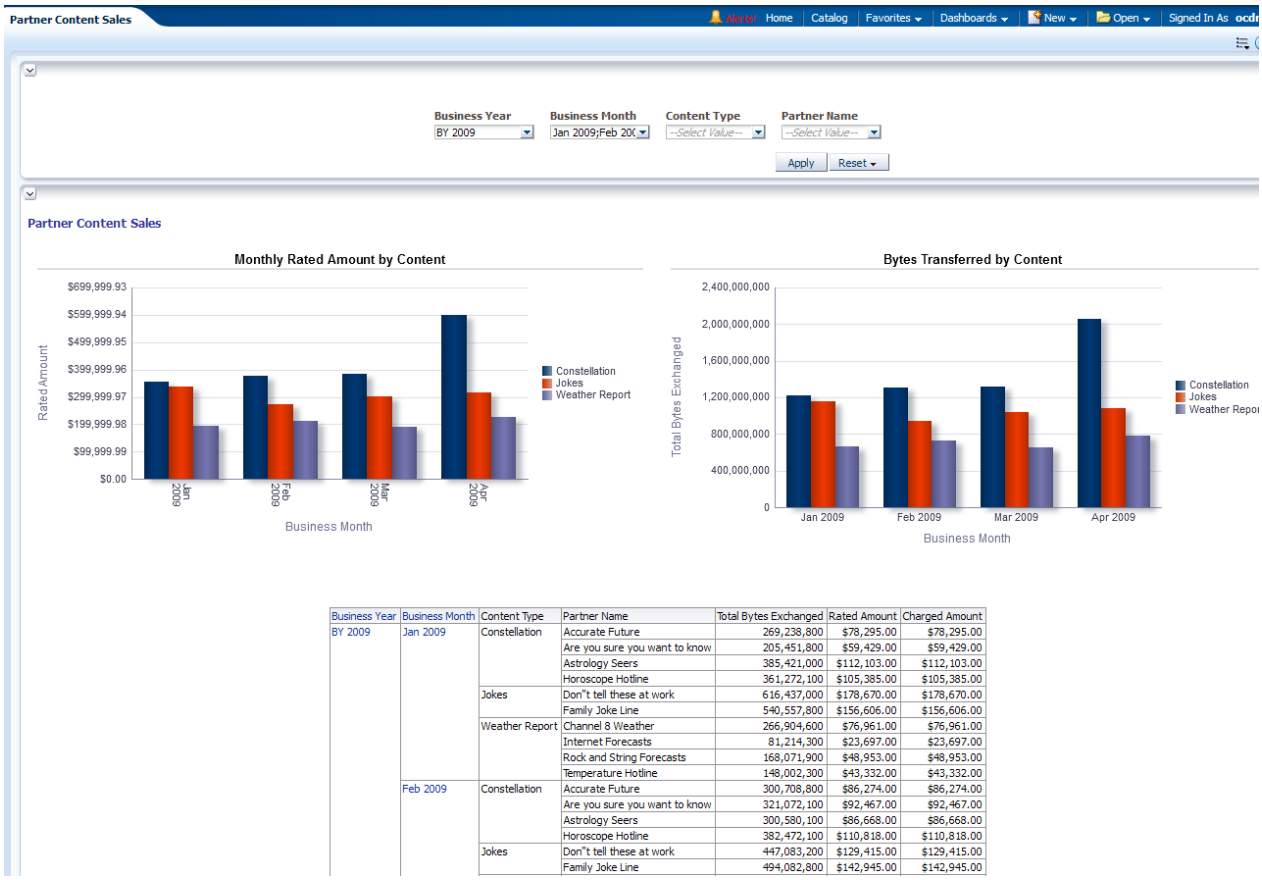
Partner Content Sales

This report, as shown in Figure 12–89 provides month-level transaction activity information based on data usage measures, for one or more content.

Report dimensions are:

- Business Time
- Content Type

Figure 12–89 Partner Content Sales Report



Business Year	Business Month	Content Type	Partner Name	Total Bytes Exchanged	Rated Amount	Charged Amount
BY 2009	Jan 2009	Constellation	Accurate Future	269,238,800	$78,295.00	$78,295.00
			Are you sure you want to know	205,451,800	$59,429.00	$59,429.00
			Astrology Seers	385,421,000	$112,103.00	$112,103.00
			Horoscope Hotline	361,272,100	$105,385.00	$105,385.00
		Jokes	Don"t tell these at work	616,437,000	$178,670.00	$178,670.00
			Family Joke Line	540,557,800	$156,606.00	$156,606.00
		Weather Report	Channel 8 Weather	266,904,600	$76,961.00	$76,961.00
			Internet Forecasts	81,214,300	$23,697.00	$23,697.00
			Rock and String Forecasts	168,071,900	$48,953.00	$48,953.00
			Temperature Hotline	148,002,300	$43,332.00	$43,332.00
	Feb 2009	Constellation	Accurate Future	300,708,800	$86,274.00	$86,274.00
			Are you sure you want to know	321,072,100	$92,467.00	$92,467.00
			Astrology Seers	300,580,100	$86,668.00	$86,668.00
			Horoscope Hotline	382,472,100	$110,818.00	$110,818.00
		Jokes	Don"t tell these at work	447,083,200	$129,415.00	$129,415.00
			Family Joke Line	494,082,800	$142,945.00	$142,945.00

Commissions

This area includes the report: Track Dealer Commission and Performance.

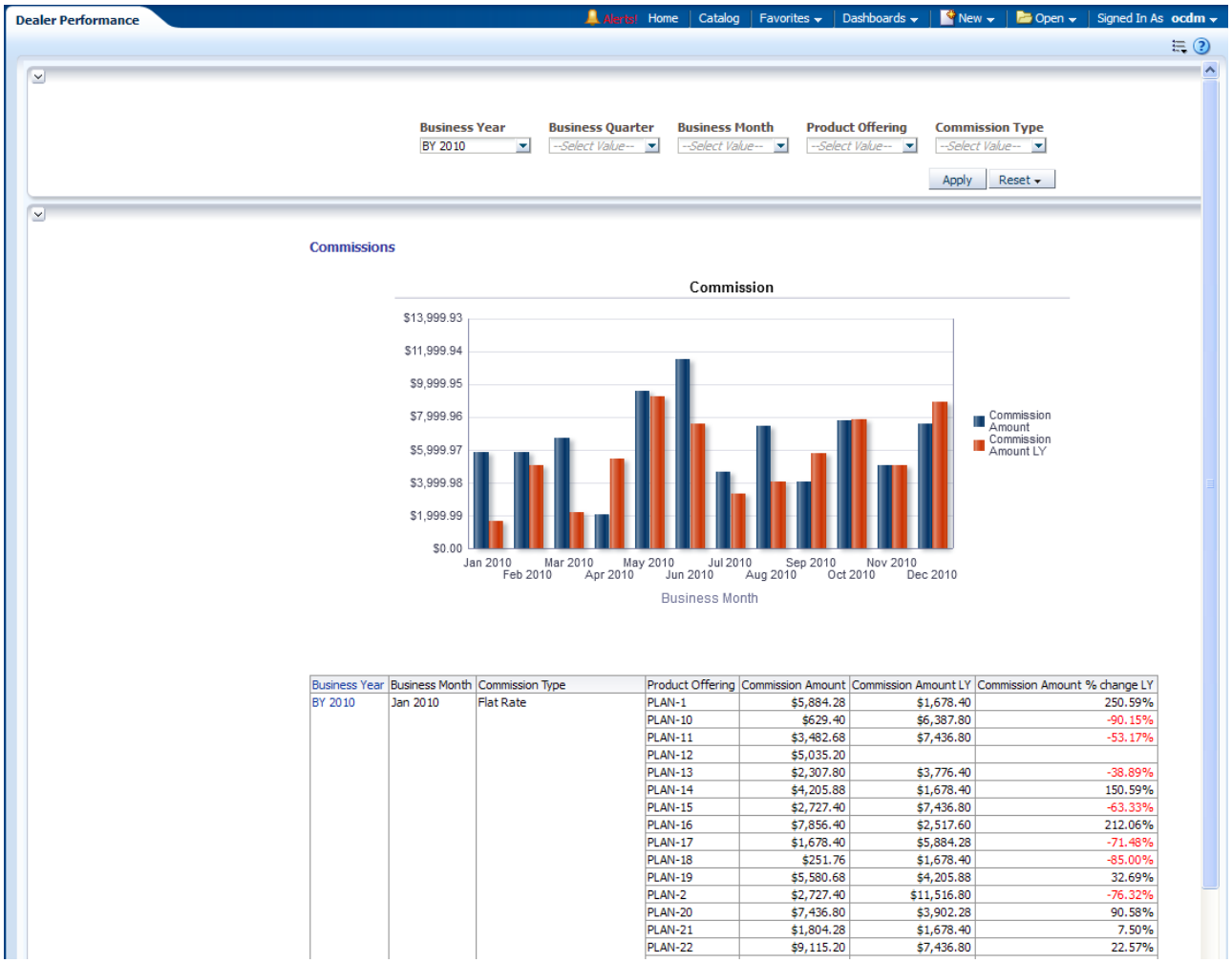
Track Dealer Commission and Performance

This report, as shown in Figure 12–90 gives the month level Dealer performance and commission generated based on a product.

Report dimensions are:

- Business Time
- Commission Type
- Product

Figure 12–90 Track Dealer Commission and Performance Report



Business Year	Business Month	Commission Type	Product Offering	Commission Amount	Commission Amount LY	Commission Amount % change LY
BY 2010	Jan 2010	Flat Rate	PLAN-1	$5,884.28	$1,678.40	250.59%
			PLAN-10	$629.40	$6,387.80	-90.15%
			PLAN-11	$3,482.68	$7,436.80	-53.17%
			PLAN-12	$5,035.20		
			PLAN-13	$2,307.80	$3,776.40	-38.89%
			PLAN-14	$4,205.88	$1,678.40	150.59%
			PLAN-15	$2,727.40	$7,436.80	-63.33%
			PLAN-16	$7,856.40	$2,517.60	212.06%
			PLAN-17	$1,678.40	$5,884.28	-71.48%
			PLAN-18	$251.76	$1,678.40	-85.00%
			PLAN-19	$5,580.68	$4,205.88	32.69%
			PLAN-2	$2,727.40	$11,516.80	-76.32%
			PLAN-20	$7,436.80	$3,902.28	90.58%
			PLAN-21	$1,804.28	$1,678.40	7.50%
			PLAN-22	$9,115.20	$7,436.80	22.57%

Part IV

Appendices

Part III contains the following Appendixes:

- Appendix A, "Control Tables"
- Appendix B, "Oracle Communications Data Model Business Use Case"

A

Control Tables

Some tables are defined in the ocdm_sys schema and use a DWC_ prefix, but are not part of Oracle Communications Data Model. You use the DWC_ control tables when processing the model. For example when loading data or when monitoring errors.

This appendix includes the following sections:

- Intra-ETL Load Parameters Control Table
- Intra-ETL OLAP Mapping Control Table
- Intra-ETL Monitoring Process Control Tables

Intra-ETL Load Parameters Control Table

Use the ocdm_execute_wf.sh program to manually execute the Intra-ETL. Before you run the Intra-ETL, for an incremental load, you must update the Oracle Communications Data Model Relational ETL parameters in DWC_ETL_PARAMETER table so that this information can be used when loading the relational data. This program prompts for several environment parameter values. And reads ETL parameters from DWC_ETL_PARAMETER table, as shown in Table A–1, and DWC_OLAP_ETL_PARAMETER table, as shown in Table A–2.

The PKG_DWD_*_MAP loads data from Oracle Communications Data Model base tables into the Oracle Communications Data Model derived tables. These packages read relational ETL parameters from the DWC_ETL_PARAMETER table.

You update the parameters in DWC_ETL_PARAMETER control table in the ocdm_sys schema so that this information can be used when loading the derived and aggregate tables and views.

Table A–1 describes the valid values for the DWC_ETL_PARAMETER table.

Table A–1 DWC_ETL_PARAMETER Table

Column	Description
Process_name	OCDM-INTRA-ETL
from_date_etl	The start date of ETL period.
to_date_etl	The end date of ETL period.
load_dt	The date when this record are populated.
last_updt_dt	The date when this record are last updated
last_updt_by	The user who last updated this record

Intra-ETL OLAP Mapping Control Table

The OLAP MAP mapping that loads OLAP cube data invokes the analytic workspace build function from the PKG_OCDM_OLAP_ETL_AW_LOAD package. This package loads data from Oracle Communications Data Model aggregate materialized views into the Oracle Communications Data Model analytical workspace and calculates the forecast data. The PKG_OCDM_OLAP_ETL_AW_LOAD reads OLAP ETL parameters from the DWC_OLAP_ETL_PARAMETER table.

You update the Oracle Communications Data Model OLAP ETL parameters in DWC_OLAP_ETL_PARAMETER control table in the ocdm_sys schema so that this information can be used when loading the OLAP cube data.

Table A–2 describes the valid values for the DWC_OLAP_ETL_PARAMETER table. For more information on the values to specify when performing an initial load of OLAP cube data or when refreshing the OLAP cubes after an initial load, see *Oracle Communications Data Model Implementation and Operations Guide*.

Table A–2 ETL Parameters in the DWC_OLAP_ETL_PARAMETER Table

Column Name	Description
PROCESS_NAME	OCDM_OLAP_ETL
BUILD_METHOD	Cube build/refresh method specified by one of the following values: ■ C specifies a complete refresh which clears all dimension values before loading. ■ ? specifies a fast refresh if possible; otherwise, a complete refresh. (Default) ■ P specifies recomputation of rows in a cube materialized view that are affected by changed partitions in the detail tables. ■ S specifies a fast solve of a compressed cube. A fast solve reloads all the detail data and re-aggregates only the changed values.
CUBENAME	Specifies the cubes you want to build: ALL builds all of the cubes in the Oracle Communications Data Model analytic workspace. *cubename*[[| *cubename*]...] specifies one or more cubes, as specified with *cubename*, to build.
MAXJOBQUEUES	A decimal value that specifies the number of parallel processes to allocate to this job. (Default value is 4.) The number of parallel processes actually allocated by a build is controlled by the smallest of these factors: ■ Number of cubes in the build and the number of partitions in each cube. ■ Setting of the MAXJOBQUEUES argument. ■ Setting of the JOB_QUEUE_PROCESSES database initialization parameter.
CALC_FCST	Whether or not to calculate forecast cubes: ■ Y specifies calculate forecast cubes. ■ N specifies do not calculate forecast cubes.
NO_FCST_YRS	A decimal value that specifies how many years forecast data you want to calculate. (This parameter takes effect only if you set CALC_FCST to 'Y')
FCST_MTHD	AUTO which invokes the Geneva forecasting expert system which tests all of possible forecasting methods and options for these methods and chooses and uses the method that best fits the data.
FCST_ST_YR	A value specified as *yyyy* which is the "start business year" of a historical period. Forecast program will calculate the forecast data based on the historical data in this period.

Table A–2 (Cont.) ETL Parameters in the DWC_OLAP_ETL_PARAMETER Table

Column Name	Description
FCST_END_YR	A value specified as *yyyy* which is the "end business year" of a historical period. Forecast program will calculate the forecast data based on the historical data in this period.
OTHER1	Reserved for future use. (Default value is NULL.)
OTHER2	Reserved for future use. (Default value is NULL.)

Intra-ETL Monitoring Process Control Tables

The two control table in the ocdm_sys schema, DWC_INTRA_ETL_PROCESS and DWC_INTRA_ETL_ACTIVITY, monitor the execution of the Intra-ETL process.

Table A–3 contains column name information for DWC_INTRA_ETL_PROCESS.
Table A–4 contains column name information for DWC_INTRA_ETL_ACTIVITY.

Table A–3 DWC_INTRA_ETL_PROCESS Columns

Columns Name	Data Type	Not Null	Remarks
PROCESS_KEY	NUMBER(30)	Yes	Primary Key, System Generated Unique Identifier
PROCESS_START_ TIME	DATE	Yes	ETL Process Start Date and Time
PROCESS_END_TIME	DATE	ETL Process End Date and Time	
PROCESS_STATUS	VARCHAR2(30)	Yes	Current status of the process
FROM_DATE_ETL	DATE	Start Date (ETL) - From Date of the ETL date range	
TO_DATE_ETL	DATE	End Date (ETL) - To Date of the ETL date range	
LOAD_DT	DATE	Record Load Date - Audit Field	
LAST_UPDT_DT	NUMBER(30)	Last Update Date and Time - Audit Field	
LAST_ UPDT_BY	VARCHAR(30)	Last Update By - Audit Field	

Table A–4 DWC_INTRA_ETL_ACTIVITY Columns

Columns Name	Data Type	Not Null	Remarks
ACTIVITY_KEY	NUMBER(30)	Yes	Primary Key, System Generated Unique Identifier
PROCESS_KEY	NUMBER(30)	Yes	Process Key. FK to DWC_ INTRA_ETL_ PROCESS table
ACTIVITY_NAME	VARCHAR2(50)	Yes	Activity Name or Intra ETL Program Name

Table A–4 (Cont.) DWC_INTRA_ETL_ACTIVITY Columns

Columns Name	Data Type	Not Null	Remarks
ACTIVITY_DESC	VARCHAR2(500)	Activity description	
ACTIVITY_START_ TIME	DATE	Yes	Intra ETL Program Start Date and Time
ACTIVITY_END_TIME	DATE	Intra ETL Program End Date and Time	
ACTIVITY_STATUS	VARCHAR2(30)	Yes	Current status of the process
ERROR_DTL	VARCHAR2(2000)	Error details if any	
LOAD_DT	DATE	Record Load Date - Audit Field	
LAST_UPDT_DT	NUMBER(30)	Last Update Date and Time - Audit Field	
LAST_ PDT_BY	VARCHAR(30)	Last Update By - Audit Field	

B

Oracle Communications Data Model Business Use Case

This appendix provides an overview and examples of Oracle Communications Data Model business use case scenarios.

This appendix includes the following sections:

Sample Use Case: Introduction

The sample business use case for Oracle Communications Data Model includes the following:

- A Multi-play telecom Carrier, including:
  - SuperTelcoGroup
  - SuperTelcoCommunications
  - SuperData

The SuperTelco Communications organization comprises two business units:

- Mobile
- Broadband: The broadband unit, named SuperData, is an acquired company; this organization has a different hierarchy. The broadband unit includes both video and broadband data services.

Their Product Offering includes (among others):

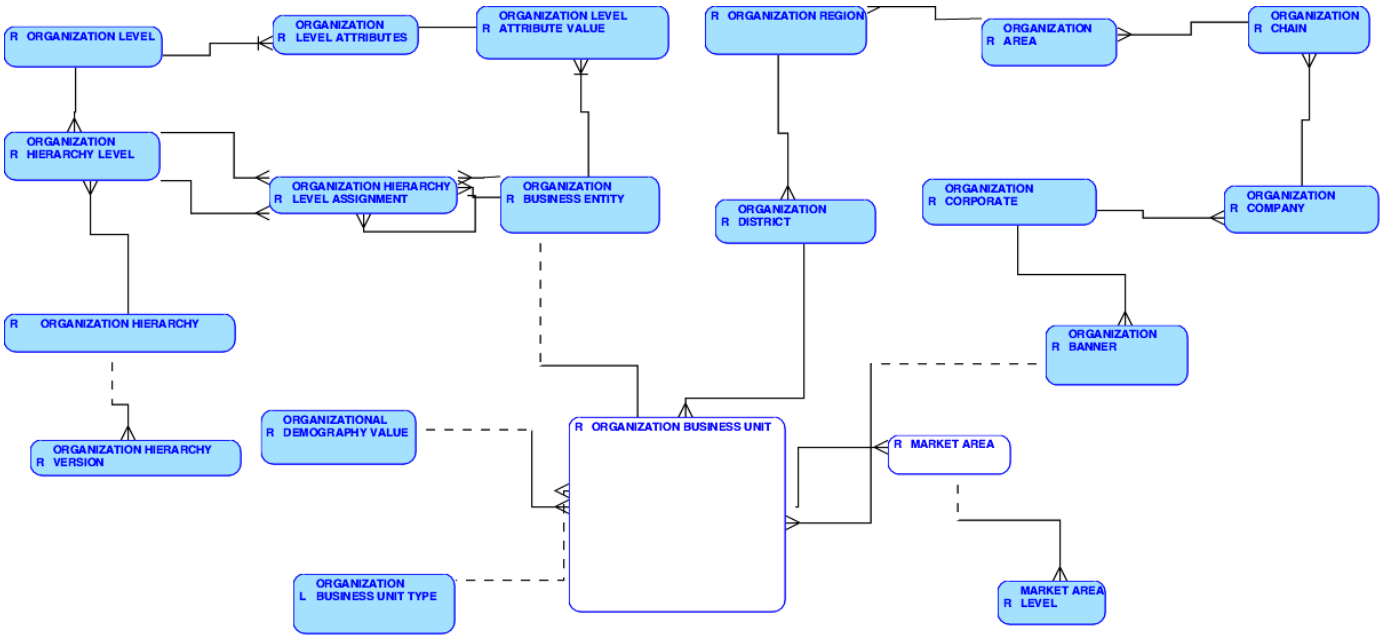
- Broadband Services for B2C and B2B
- Video on Demand
- Mobile (for example 3G) services

Their prospects and then customers will be Tom Daniels and his family (Mary Daniels and their children) and some companies.

Sample Use Case 1: Setting Up the Business Unit Organization

This business use case, describes how to build up the organization SuperTelco as a PARTY in the data model. In particular, the two main business units (Mobile with SuperTelco and Broadband with SuperData) will be modeled into Oracle Communications Data Model corresponding Subject Area, shown in Figure B–1.

Figure B–1 Organization Business Units in Sample Use Case



Oracle Communications Data Model should capture the following administrative functions for the Mobile and Broadband business units:

- HQ, HQ Mobile/HQ Broadband, Customer Care, Sales Marketing
- Related geographic information (for state, county, City, Dealers/Shops and Web Service)
- The people involved, in particular all employees (who is a manager from whom in which organization)

To work with the sample use case you build up the organization SuperTelco as a PARTY in the Oracle Communications Data Model:

1. There are two ways to store the information for an ORGANIZATION BUSINESS UNIT:
   - Using a standard pre-defined hierarchy

- Using a flexible hierarchy

2. As shown in Figure B–1, the business unit follows a simple hierarchy stored in the corresponding tables:
   - ORGANIZATION BUSINESS UNIT: this is the smallest "independent" unit of an organization which can contain several sales channels and/or customer contact possibilities, such as call centers (stored in CALL CENTER), a website (stored in "Service Web Site"), and shops (in RETAIL STORE). The business unit is of a specified type, as detailed in the ORGANIZATION BUSINESS UNIT TYPE. All the information relative to this business unit, such as the business address or the company registry number is stored in the ORGANIZATION BUSINESS UNIT. It is a sub-type of PARTY.
   - This business unit is geographically (and somehow "administratively") situated in a district, region, and area. The geographic entity is stored as specified in the entities: ORGANIZATION DISTRICT, ORGANIZATION REGION, and ORGANIZATION AREA.
   - To understand the notion of "organizational chain" above the organization area, consider for example that the SuperTelco stores are located inside a given supermarket chain. SuperTelco may have a part of the organization related to this chain of supermarket, which would then be stored in the ORGANIZATION CHAIN table.
   - The ORGANIZATION CHAIN belongs to a company; in this example, the company SuperTelco is stored in the ORGANIZATION COMPANY table, itself member of a group whose information is stored in ORGANIZATION CORPORATE.
   - When you use a "banner" for a given sales channel, store the banner in the ORGANIZATION BANNER table, linking the business unit to the corporate level.
3. As shown in Figure B–1, the business unit could also be part of a proper and changeable hierarchy (or hierarchies) that would then be stored in the corresponding tables of the so-called "flexible" Organization hierarchy:
   - A Business Unit is an ORGANIZATION BUSINESS ENTITY: This entity is a reference that allows a flexible definition for the hierarchy level and the attributes you choose per level (see next line).
   - The ORGANIZATION LEVEL defines the levels of the flexible hierarchy (whose level attributes and possible values as stored in the entities ORGANIZATION LEVEL ATTRIBUTES and ORGANIZATION LEVEL ATTRIBUTE VALUE).
   - The hierarchy between levels is defined in ORGANIZATION HIERARCHY LEVEL, which belongs to a given ORGANIZATION HIERARCHY. Thus, for a given organization several hierarchies can be defined (administrative, geographic, and so on.
   - A hierarchy has a version, defined in ORGANIZATION HIERARCHY VERSION. This allows you to change the hierarchy, depending on the historical development of the organization.
   - A Business entity is assigned to a given level through the ORGANIZATION HIERARCHY LEVEL ASSIGNMENT table.

Of these two choices: simple hierarchy and flexible hierarchy, the SuperTelco sample use case uses the flexible hierarchy. This is the preferred hierarchy for this sample because the historic growth of SuperTelco specifies that the hierarchy changes over time. To deal with the geographical organization of the SuperTelco stores dispatched in

the country however, the standard hierarchy could be used. Such a hierarchy would support a detailed analysis of the local and geographical differences for the impact of a national marketing campaign.

Sample Use Case 2: Acquiring a New Customer (with Family Plan)

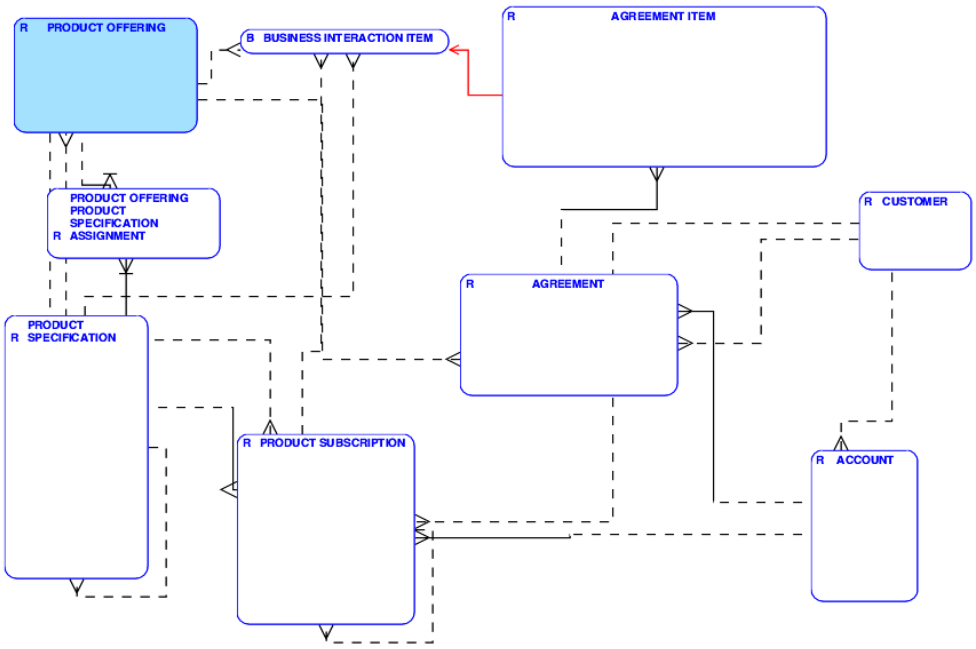
For the sample use case, let us assume that a father (Tom Daniels) goes to a SuperTelco dealer and asks for a Family Plan offering with the following features:

- One main mobile phone postpaid (his)
- One secondary mobile phone postpaid (wife)
- Two additional mobile phones prepaid (children)
- One Friends and Family option that allows calls between these users to be free of charge

The father is moving his service from a competitor and wants to keep his current mobile number (number portability required). This example provides details on the information stored in the various agreement, account, customer, and party entities. The actions covered in this area include the following, as shown in Figure B–2.

- Party Interaction (Customer - Dealer)
- Contract setup (Customer, Account, Billing, and others)
- Subscription
- Product Association
- Phone number and equipment associations

Figure B–2 Customer Acquisition: Family Plan Model



New Customer with Family Plan Data:

1. The `ORGANIZATION BUSINESS UNIT` information was previously setup, as described in Sample Use Case 1: Setting Up the Business Unit Organization.

2. The newly acquired customer information is stored in the CRM and/or the billing system. This information will feed Oracle Communications Data Model using a custom ETL. One record in CUSTOMER is inserted with a name, in this case "Tom Daniels", of type "individual". Usually customers are not required to provide additional user information when purchasing multiple numbers. If this information is provided, you can save the information with the PARTY entity (and you should use the PARTY ASSIGNMENT table to describe their relationship to "Tom Daniel" - assuming this information is available in the data source).
3. Save the related information about a customer, such as profession, age, education, and other information in the related CUSTOMER tables, the referential lookup tables, such as SOC JOB ("Standard Occupational Classification" system for the work activity of the individual customer). Save confidential information such as the date of birth in the table called CUSTOMER RESTRICTED INFO that can be individually hidden or encrypted in the database.
4. A contract between Tom Daniels and SuperTelco is set up in the AGREEMENT table (equivalent to a contract but generalized). The customer has a agreement with the Service Provider which defines the accounts (normally with a unique login or a unique identifier). For example this sample agreement is based on a special package "PKG_Mobile_300". The product packages available to any type of consumers (individual - B2C or businesses - B2B) are saved in the PRODUCT OFFERING entity.
5. One customer account is inserted into the ACCOUNT entity, with the customer key pointing to the new customer instance. The account is the financial vision of the customer. There is normally only one account per customer (whatever the number of subscriptions they buy) but multiple accounts per customer is allowed (typically to either reproduce the billing vision or in some specific cases).
6. The customer, Tom Daniels, has selected four different handsets (stored in the EQUIPMENT table; this is not visible on the diagram shown in Figure B–2).
7. Four Mobile phone numbers are saved into the table ACCESS METHOD and the associated handset. Each phone number uses the current date for the effective date and also has the account ID pointing to the account (as the account ID was set up).
8. A customer order, stored in the CUSTOMER ORDER entity, is generated with all the items that the customer ordered including mobile numbers, product packages, and so on (including the number portability request).
9. A number portability request is triggered by the order and a number portability event is stored in the NP REQUEST HEADER table. Due to the number portability request, the customer order may be processed with some delay; the old network provider must respond positively to SuperTelco's number portability request. In this case, either only Tom Daniels's IMSI or all IMSIs related to Tom Daniels will be activated after the agreement date ("today"). For this case, creating an additional, custom ETL(s) to the mediation or provisioning system may be necessary.
10. Four subscriptions are inserted into the PRODUCT SUBSCRIPTION table. A subscription is considered a "non-network event" as opposed to a call, which is a "network event". Each subscription associates one product, one customer, one account, and one ACCESS METHOD (mobile number).
11. The customer order could be loaded into Oracle Communications Data Model through the Extract-Transform-Load scripts (ETL) at each change of status or only once it is completed and fulfilled in the BSS/OSS systems.

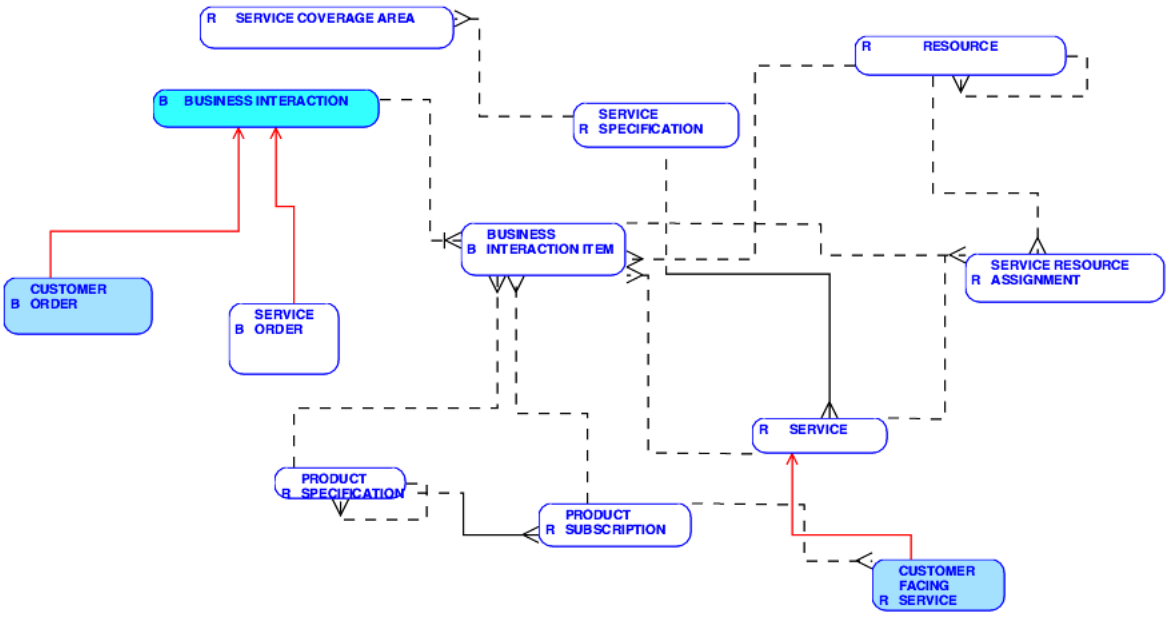
12. A fulfilled (closed) customer order automatically impacts the data mining tables related to the customer segmentation, market share, and the revenue OLAP cubes: For example, due to the number portability request, the competitor looses one customer and SuperTelco wins one customer in the given segment.
13. In the pure prepaid case, no bill is created. However, the purchase of a voucher for any type of prepaid services is taken in account in Oracle Communications Data Model: PayTV, Music downloads, Prepaid card with handset, and so on. The original prepaid allowance or the recharge will be recorded and an account is created, similarly to the postpaid case.

Sample Use Case 3: Service Implementation

After Tom purchased the family plan, made the payment, and the customer order was generated, the provisioning engine takes over.

The service implementation is stored with Oracle Communications Data Model as shown in Figure B–3.

Figure B–3 Service Implementation



For the service implementation, the provisioning engine does the following:

1. Each "customer Order" is disassembled into multiple "Service Order", each of which is used by the provisioning engine to orchestrate the whole system. Each "Service Order" is normally corresponding to a specific "Network Element" or a group of "Network Element". For example, one customer order of Prepaid GSM phone can be fulfilled by multiple "Service Order", including account setup of in the billing and CRM systems, in Intelligent Network system, and so on.
2. Once the "Service Order" is executed, some new services may be generated. The service may be "customer facing service", which is an internal presentation of "Subscription". The business user sees each product realization on each customer as a "subscription" to track the business usage, while the technical user (from the network) sees a customer activation (and usage) on a "network element"

(including logical "network element" like phone numbers) as a "Resource Facing Service". These notions are those defined by the TeleManagement Forum.

3. In case any "Network Element" failed, technical support can easily track which customers or accounts may be affected by following relationships from "network element" to "Service" and then to "Subscription".

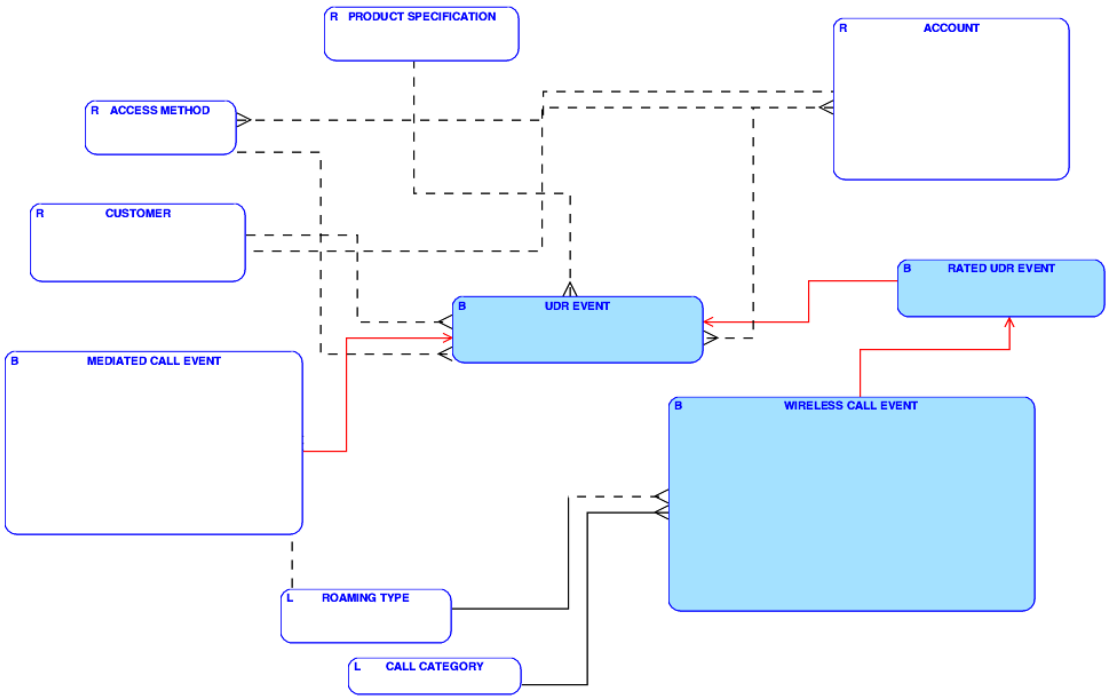
4. As subtype of the Business Interaction, the CUSTOMER FIELD SERVICE ACTIVITY table (not visible on the diagram) would store any direct interaction on customer's or network's site for this order.

Sample Use Case 4: Storing Customer Call Data

After Tom Daniels has got his phone, and after the phones for his wife and children are activated, Tom Daniels regularly calls his family and friends. Tom Daniels uses the phone primarily to make voice calls and to send SMS messages; he rarely uses the data or MMS services.

The customer call information is stored with Oracle Communications Data Model as shown in Figure B–4.

Figure B–4 Customer Call Data Model



The call data can be saved in Oracle Communications Data Model:

1. The CUSTOMER, PRODUCT SPECIFICATION, and ACCESS METHOD are set up, as described in Sample Use Case 2: Acquiring a New Customer (with Family Plan).

2. Each time the customer makes a call, this generates a Call Detail Record (CDR) in the network, at the switch level (raw CDRs) which then will be collected by the mediation (Mediated CDRs) and forwarded to the rating and/or billing engine (Rated CDRs). This last CDR - in the wireless case - is saved into the WIRELESS CALL EVENT table in Oracle Communications Data Model (this is a sub-entity of the UDR EVENT table). A UDR EVENT is an abstract entity which defines the

minimal common definition of any network events (calls and service usage of any type).

3. The CALL CATEGORY tracks the type of a call, such as a data or a voice call.
4. The ROAMING TYPE tracks whether the call roams from another operator or to another operator.
5. The MEDIATED CALL EVENT table stores the CDRs from the mediation system (before entering the billing engine).
6. The UDR EVENT table stores the call details such as the call date and time and the call duration.

Note: Depending on where the source Call Detail Record (CDR) is taken, the CDR may contain a charge for the following:

- In case of Roaming, the (base) charge is set by the other operator (raw or mediated CDRs level), while the carrier itself usually adds a surcharge (fixed percentage or fixed price per minute - normally higher than the roaming charge).
- In case of Value Added Service, the charge is set by the vendor (raw or mediated CDRs).
- In case the CDR source is the billing system, after rating has taken place (rated CDRs). This is also true for CDRs from the IN Platform which is doing the rating (typically for Prepaid).

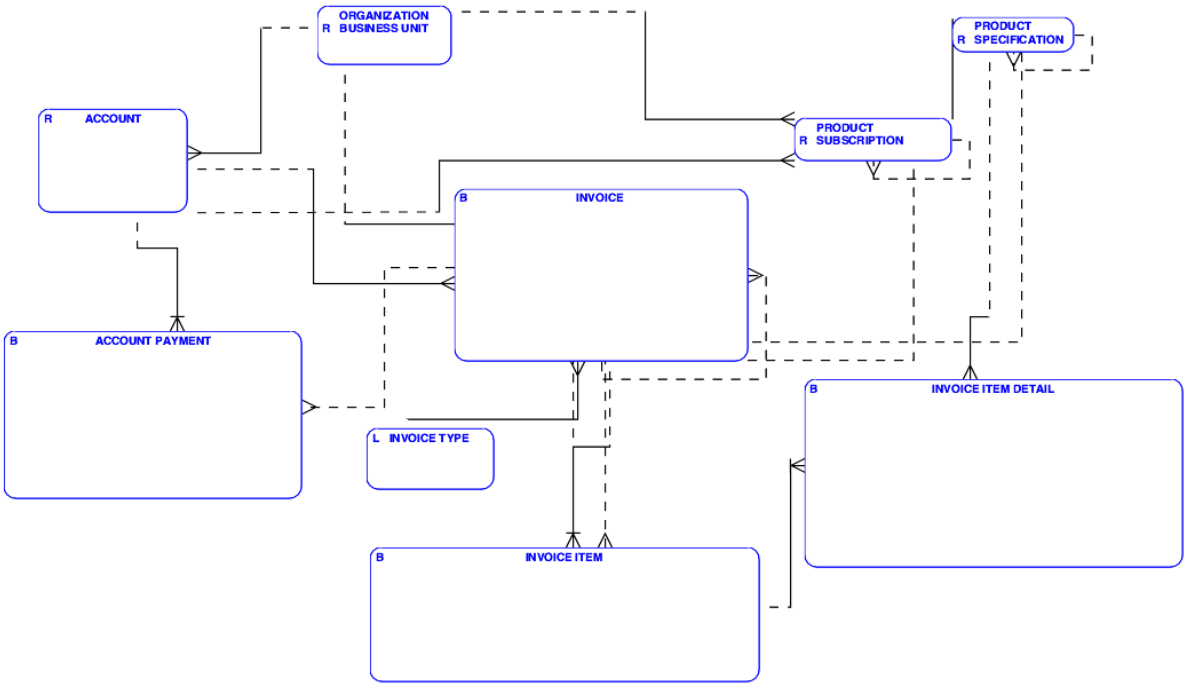
Depending on the type of analysis, it is usually recommended for revenue assurance to check at least both mediated (before the billing system) and rated or billed CDRs (from the billing). The raw CDRs, direct input from the network, are usually more complex to deal with (binary type of data, a potential factor 100 in number of CDRs and additional signaling information) but are very interesting from a network operation and revenue assurance point of view.

Sample Use Case 5: Customer Billing

At the end of each bill cycle period (usually a specific day of the month for a given bill cycle), SuperTelco runs the billing process over the calling records for the customer and generates an invoice. In our example, Tom Daniels receives an invoice of $100 for all the phone numbers (Postpaid only normally, but one could think that he could also have agreed to pay by default every month some Recharges for his children "Prepaid" phones). Tom Daniels has to pay SuperTelco within a month or the service could be suspended.

Oracle Communications Data Model stores the customer billing, invoice, and payment information as shown in Figure B–5.

Figure B–5 Billing and Payment Data Model (simplified and missing some entities)



Billing Data in Oracle Communications Data Model:

1. The section, Sample Use Case 4: Storing Customer Call Data, describes the collection of call data records data.
2. To store the details of the product charging information, Oracle Communications Data Model uses the `PRODUCT SPECIFICATION` sub-entities such as: `PRODUCT OFFERING RATING PLAN`, `PRODUCT OFFERING RATING PLAN DETAIL`, and `PRODUCT OFFERING PRICE` and `PRICE TYPE`.
3. Each `ACCOUNT` is billed independently. If a customer owns multiple agreements, multiple `INVOICE`s are generated in the same month.
4. An agreement may have a different billing period than other agreements associated to the same account. A billing period may be specified monthly, bi-weekly, and so on.
5. After the billing and invoicing have occurred in the billing system, the `INVOICE`, `INVOICE ITEM` and `INVOICE ITEM DETAIL` tables store all the information of the invoice for the given billing period (usually a month). The term at which the customer has to pay the invoice is saved in the `INVOICE PAYMENT TERM TYPE` associated with each invoice (for example, one month or 90 days). The term is fixed when the agreement is signed.
6. In case a discount or adjustment is applied to the invoice, this information is stored in the corresponding table (`INVOICE DISCOUNT` or `INVOICE ADJUSTMENT`). An `EMPLOYEE` can make invoice adjustments to the amount limited by `INVOICE ADJUSTMENT QUOTA`.
7. The invoice delivery to Tom Daniels is a small part in the complete billing and invoice issuing and dispatching processes. The specific information related to Tom's invoice is stored in the `INVOICE PROCESS ASSIGNMENT` table (not visible in the diagram) and eventually in the `INVOICE` itself (see the date at which it is created, issued and dispatched).

8. The ACCOUNT PAYMENT METHOD stores the payment method chosen when the agreement was signed and this method is the default for the payment transaction.
9. When Tom Daniels pays the invoice, for example using a bank transfer, the payment is stored in ACCOUNT PAYMENT and assigned to the corresponding open invoice. The ACCOUNT PAYMENT is stored into the INVOICE PAYMENT ASSIGNMENT. The ACCOUNT PAYMENT table stores any type of payment (normal payment, recharge, transfer, refund, and so on). You may define a view for each subtype whenever required.
10. The difference between the INVOICE amount and the payment adds to the debt (the debt is not shown in Figure B–5).

Note: for the revenue assurance sub-area and its corresponding reports, it is important to store the itemized bill in Oracle Communications Data Model. The usage items (detailed call list) can then be compared, one by one, with the rated CDRs and using this method you can find the difference between rated and billed CDRs.

The section, Sample Use Case 7: Targeted Promotion for Video-on-Demand Services" shows a campaign set-up with the prospect choice. For this campaign, a measure of the campaign success could be obtained by analyzing the number of subscribers who contacted the call center and requested a product change based on the promotion, as a factor of time, in hours or days, between sending the promotion and customer call-back.

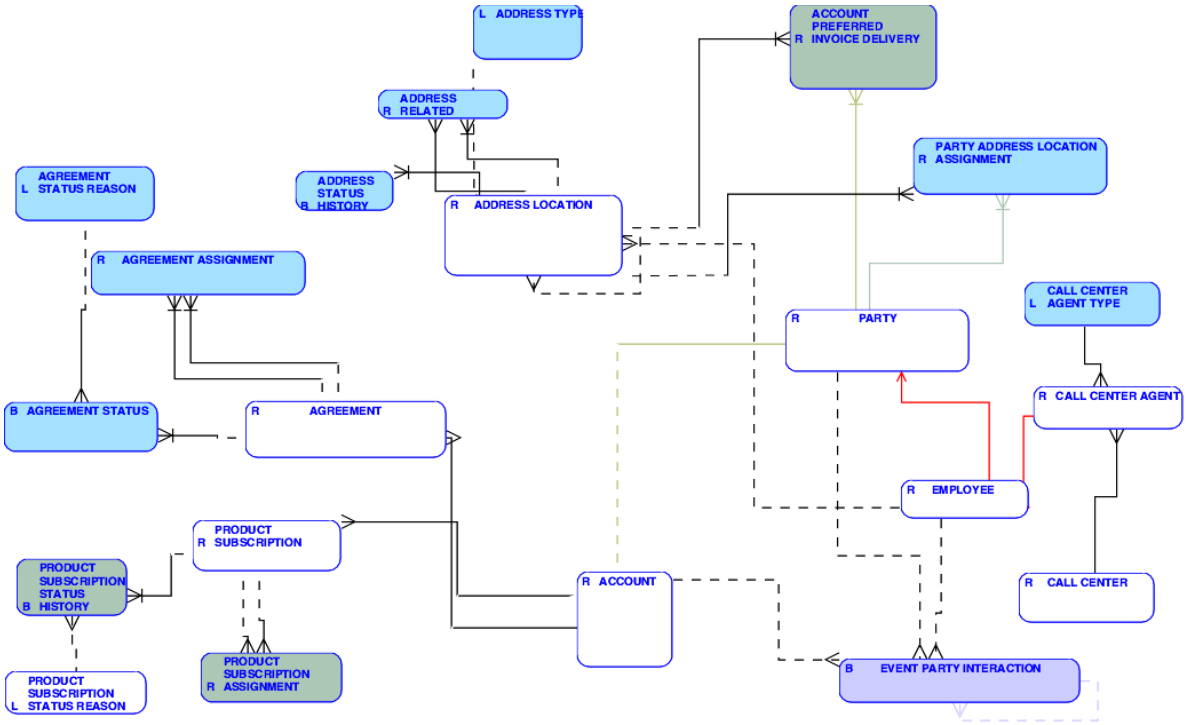
Sample Use Case 6: Changing Plan and Billing Address

SuperTelco launches a campaign to promote a package with converged broadband and mobile services. Tom Daniels sees the promotion message, delivered through an SMS campaign, and decides to take advantage of the promotion. He calls the call center and asks to change his product package to obtain the new converged family plan that includes broadband services. Later, using the SuperTelco Web Self-Service Interface he changes his billing address.

The section, Sample Use Case 7: Targeted Promotion for Video-on-Demand Services shows a campaign set-up with the prospect choice. For this campaign, a measure of the campaign success could be obtained by analyzing the number of subscribers who contacted the call center and requested a product change based on the promotion, as a factor of time, in hours or days, between sending the promotion and customer call-back.

SuperTelco uses Oracle Communications Data Model to store this customer interaction as shown in Figure B–6 and as outlined in the corresponding steps.

Figure B–6 Changing Plan and Billing Address



1. The section, "Sample Use Case 1: Setting Up the Business Unit Organization" covers information about the call center.

   The call center agent, stored in `CALL CENTER AGENT`, as well as the team and department, in `CALL CENTER` table, are uniquely identified in Oracle Communications Data Model. The call center agent may be an employee (stored then in `EMPLOYEE`) of SuperTelco or an employee of a partner company that runs the call center for SuperTelco. For this example the `CALL CENTER AGENT`is a subtype of `EMPLOYEE`. All `INTERACTION CHANNEL`s need to be configured, such as the `CALL CENTER` and any Web or Online business system, or a counter (in a shop), to make sure that one can trace the interaction with the customer at any time.

2. The details for interaction information for the call center are stored as a "non network event". Depending on the method Tom Daniels uses to contact the call center, the corresponding code from `INTERACTION TYPE` is stored with the event:

   - Using `EVENT PARTY INTERACTION` (use interaction type as "Call" in this case). This information is aggregated in the `CALL CENTER CALL MONTH AGGR` for further analysis.
   - A thread will be defined by the first interaction of the chain in `EVENT PARTY INTERACTION` to store the reason for the customer call. A thread groups all interactions having to do with the same list of requests, inquiries and issues the customer deals with. This information is aggregated in the `CALL CENTER CASE MONTH AGGR` for further analysis.

3. When the customer confirms the agreement change, the product change process occurs in the CRM and billing system. This process triggers two `PRODUCT SUBSCRIPTION` events for the `ACCOUNT` (when the converged product is a complete package which cannot be split). Oracle Communications Data Model stores the following events:

- The first event is a cancellation for the existing PRODUCT SUBSCRIPTION ("PKG_Mobile_300"). The effective_to_date attribute changes to the current date.
- The second event for the PRODUCT SUBSCRIPTION is a new product subscription for the converged package (as described in "Sample Use Case 1: Setting Up the Business Unit Organization").
- The third event involves creating the link between the two subscriptions and uses the table PRODUCT SUBSCRIPTION ASSIGNMENT to store their relationship.
- The fourth would require a (Product) Subscription Change Event EVENT SUBSCRIPTION CHANGE to keep track of the migration. Note: If this action is omitted, it will not appear in the data marts associated with migration.

If as part of the commercial process for this offering defined by the Service Provider the AGREEMENT requires changes, then do the following:

- Close the old agreement with a "cancellation reason" specified (find the cancellation reason in the lookup table AGREEMENT STATUS REASON).
- Create a new agreement with the corresponding AGREEMENT TERM supplied.
- If the AGREEMENT does not need to be replaced and the new product uses the same agreement, then one case either:

  a) Close the Agreement Item with the old PRODUCT SUBSCRIPTION.

  b) Create a new Agreement Item with the new PRODUCT SUBSCRIPTION.

  c) You may also change the product assignment for the existing agreement in the table AGREEMENT PRODUCT SPEC ASSIGNMENT with a specific assignment code.

Important Notes:

- If by changing the PRODUCT SUBSCRIPTION, the main PRODUCT OFFERING changes, a new line in AGREEMENT (new agreement key) is required, even if the agreement code (Agreement identifier) does not change.
- A product change impacts several other tables on the next automatic data movement (and their corresponding reports).
  - The CANNIBALIZATION DETAIL DAY DRVD table which captures the individual record related to the tariff and package change. This table fills the Cross and Up-sell mining model.
  - The customer Lifetime Value associated table is also updated. The agreement or product has changed and this change impacts the likelihood to churn.
  - The Revenue Forecast OLAP cube also changes for this customer.

The details for the product charge information are stored in the various PRODUCT SPECIFICATION sub-entities, including: PRODUCT OFFERING RATING PLAN and PRODUCT OFFERING RATING PLAN DETAIL.

Note: the Oracle Communications Data Model does not rate, from the monetary perspective, any kind of event (no "shadow billing" as such), although one could customize Oracle Communications Data Model for this purpose.

The customer table, using the entity CUSTOMER and the attribute Billing Address Location Code, stores the customer's billing address. This attribute links to the actual address entity ADDRESS LOCATION. The billing address is one type with a value from

the ADDRESS TYPE for the new address. For example, when Tom Daniels changes the billing address, using the SuperTelco Web Self-Service Interface, the change is captured by the ETLs (from the CRM or from the web interface) and is stored in Oracle Communications Data Model as a the non-network event (from the source Web Interface, the Web based customer self-care system, typically where you login to obtain your offer).

When Tom Daniels has given the new address, the two addresses are linked with the ADDRESS RELATED entity. With more than one address, changes are required in the ADDRESS RELATED and CUSTOMER entities:

- The current billing address in ADDRESS RELATED has the value "Old Billing Address" as reason.
- The new billing address reason is assigned: if this is a new home address the new address exists in Oracle Communications Data Model and becomes the new billing address.
- The ADDRESS STATUS of new address is set to "Active" while the ADDRESS STATUS for the old address becomes "Inactive".
- In the CUSTOMER table, the new billing address location is overwritten and the billing address effective date is updated to the correct date.
- The change of address may impact the customer profiling mining model.

Additionally, the PARTY STATUS HISTORY could be updated (depending on what information the Service Provider requires).

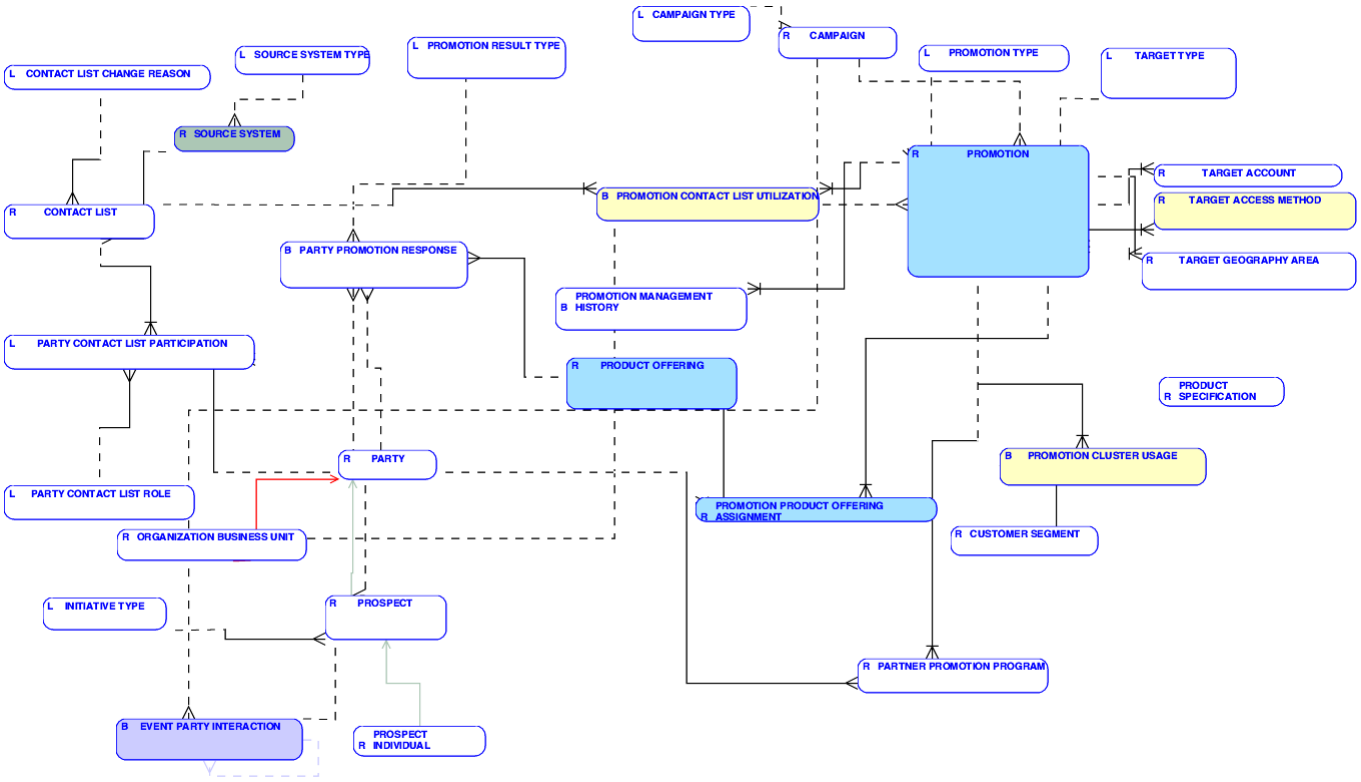
Sample Use Case 7: Targeted Promotion for Video-on-Demand Services

SuperTelco analyzes the current customer base to identify the customers who are most likely to purchase the Video-On-Demand service. The Marketing department would also like to increase the number of customers in the loyalty program (this can help limit churn). Using the Data Mining tool for target promotion, the business analyst in the SuperTelco Marketing generates a list of customers that are likely to be interested in this service and that are not currently members of a loyalty program ("supervised" mining).

A sample of the target list of customers is selected to test the promotion. Customer Tom Daniels is among the target list of customers. SuperTelco sends the target customers an email. In order to collect customer feedback, SuperTelco decides that the test promotion customers must contact the call center to get the Video-On-Demand service and one free DVD.

SuperTelco uses Oracle Communications Data Model to store this customer interaction as shown in Figure B–6 and as outlined in the corresponding steps.

Figure B–7 Targeted Promotion Data Model



Tom Daniels decides to buy the service and calls the CALL CENTER to get the new promotion, including:

- A month of Video-On-Demand service for ten dollars.
- Five films per month free and one free DVD.
- During the call he is offered the option to be added to the loyalty program with 500 Loyalty bonus points.

The section, "Sample Use Case 6: Changing Plan and Billing Address" covers the impact of a product change.

The business analyst prepares the campaign, selects the prospects, and measures the campaign success as follow:

1. The marketing manager determines the number of customers that are members of the loyalty program. Membership in the loyalty program seems to be a factor in reducing churn and increasing SuperTelco's knowledge of a customer's preferences. To increase the number of customers in the loyalty program the marketing manager decides to contact existing customers to proposing a new offering, the Video-On-Demand product, and bind the offering to the loyalty program membership. The loyalty program membership is proposed whether the customer takes advantages of the Video-On-Demand promotion or not. Thus, the promotion includes two promotions:
   a. Service Offering: Video-On-Demand
   b. Loyalty Program Membership
2. The product setting for Video-On-Demand is specified in the PRODUCT SPECIFICATION and PRODUCT OFFERING tables. The purpose and summary information for each promotion is specified in the PROMOTION table. Some

PROMOTIONs may serve a single strategic purpose (the CAMPAIGN tracks the promotion purpose).

3. The business analyst for this campaign has the following requirements:
   a. Prospects for Video-On-Demand should have an active broadband service.
   b. Prospects for the loyalty program should not yet be a member of the loyalty program.
   c. Prospects should only be individuals.
   d. Prospects should not be in a campaign or have recently, within the last three months, been contacted for a promotional offering.
   e. Prospect revenue should be at least in the middle range.
   f. Prospect payment should be on-time, debt aging at zero or near zero, and the prospect should have had no service suspension for bad payments.
   g. Before proposing the promotion on a large scale the business analyst should select a list of two hundred sample customers to test the campaign.
4. Because of the information received the business analyst uses the "supervised" method for targeted promotion data mining, using the specified criteria to find the prospect list.
5. The business analyst determines that there are two possibilities to generate the prospect list contacts:
   - The operator can buy a CONTACT LIST from an external marketing data provider. The SOURCE SYSTEM contains possible sources for this type of data. The marketing department can also design criteria based on which customers to select from a CONTACT LIST. The customer information may not be in the operator's customer database yet. In this case the customer information is recorded in PARTY and PARTY CONTACT LIST PARTICIPATION that associate the PARTY and a CONTACT LIST. The PROMOTION CONTACT LIST UTILIZATION records which promotion utilizes which CONTACT LIST.
   - The operator can run data mining, provided with Oracle Communications Data Model including the "Targeted Product Promotion", or "Customer Segmentation". This corresponds to a Mining result table whose name is "DWD_CUST_PROD_AFFLTN". The output from the mining model CUSTOMER SEGMENTATION MODEL is specified in the entity CUSTOMER SEGMENT.

     For more information, see Chapter 10, "Oracle Communications Data Model Data Mining Models" and "Model 4: Targeted Promotion".

For the sample use case the customer Tom Daniels is part of the two hundred customer test sample. He is tagged as a prospect for this campaign and will appear in the table PROSPECT. Tom Daniels can be a prospect of only one campaign at a time. This is strictly necessary to correctly measure the campaign response. Because Tom Daniels is an individual, the table PROSPECT INDIVIDUAL is filled; in addition, some data may be collected during the promotion customer interaction.

Following Tom Daniels's interaction with the CALL CENTER, as specified in the PARTY INTERACTION THREAD, the tables INITIATIVE RESULT TYPE, PARTY PROMOTION RESPONSE, and PROSPECT, field Prospect Result Code, are updated:

1. Tom Daniels bought the service as specified in the promotion and the video chosen by Tom Daniels is recorded for further analysis (for billing and because the

interest is saved information on "Tom Daniels's interest" and on most successful "Videos" type and name).

2. Tom Daniels accepts membership in the loyalty program, stored in the LOYALTY PROGRAM entity, thus increasing the number of loyalty program members and the knowledge of Tom Daniels's interests.

Each response from a targeted customer is recorded in PARTY PROMOTION RESPONSE. A positive response is stored as part of the mining result to the campaign, thus providing a better score to individual customers in a similar segment as Tom Daniels. The scoring table is reused to calculate the likelihood of a positive answer to the campaign when the campaign is broadened beyond the test to other customers.

Note: A customer email triggered this initiative and the initiative was completed by the call center. Thus, Tom Daniels's CALL CENTER call was triggered by the email so the medium of this targeted promotion is email while the sales channel is the CALL CENTER.

As a consequence of the new loyalty program membership and the associated 500 bonus points, a "CRM" event of type Loyalty is created and stored in the LOYALTY MEMBERSHIP ENROLL table. A new MEMBERSHIP ACCOUNT is created. A membership account is an account of type Loyalty. It is specifically tracked separately and should never be part of the standard ACCOUNT BALANCE. The 500 Bonus point shall also appear in the EVENT LOYALTY PROGRAM table and also in ACCRUAL EVENT, in both cases associated with Tom's membership account. Tom Daniels also appears in the MEMBERSHIP ACCOUNT BALANCE HISTORY table (LOYALTY MEMBER POINT DAY DRVD and LOYALTY PROGRAM MO AGGR) coming from the previously defined CALL CENTER entity. The PARTY STATUS HISTORY is changed and some fields of CUSTOMER are updated (for example, Initiative Number and Customer Balance).

Note: Earning Loyalty point events ("accrual" events) are expected to come from a Billing System (or equivalent, as long as the loyalty balance is tracked), whatever their origin (purchase, retail transaction, payment, usage and so on).

Sample Use Case 8: Retention of Terminating Agreement

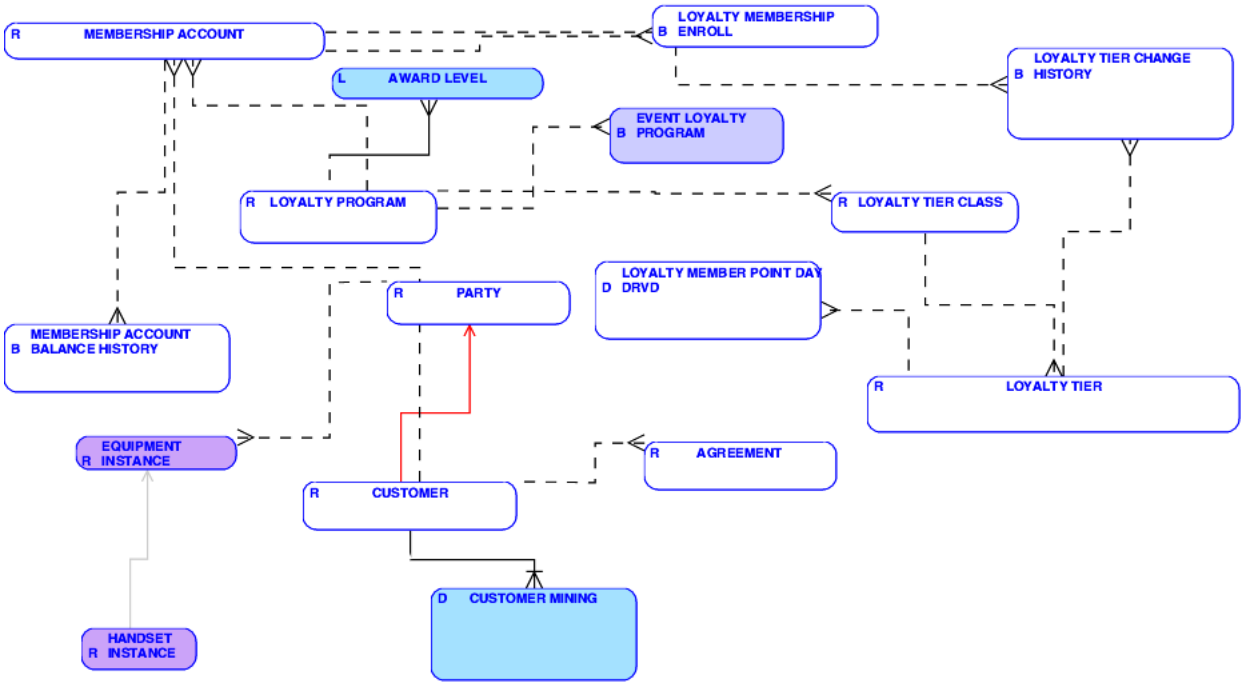
After a period as a customer, Tom Daniels's agreement and plan ends. Before the agreement ends SuperTelco notices that he is likely to churn, according to the socio-demographic data, the subscriptions he has, the usage and revenue pattern (based on comparisons with the customer segment).

The call center proposes that this customer continue with a new offering:

- Family Broadband
- Video-On-Demand and Phone
- The new generation phone as equipment
- A special 12% Discount for 12 months (12 month sign up)

SuperTelco uses Oracle Communications Data Model to store this customer interaction as shown in Figure B–8 and as outlined in the corresponding steps.

Figure B–8 Retention of Terminating Contract Model



The terminating agreement and call center retention involves the following steps:

1. Tom Daniels's churn likelihood increases as the end of the agreement approaches. Because he is an important customer, belonging to the loyalty program, the churn likelihood should be lower than in other segments (according to `AWARD LEVEL` when Tom Daniels participates in the loyalty program by `LOYALTY MEMBERSHIP ENROLL`).
2. The operator may run Oracle Communications Data Model mining model to identify the highest probability churners. The result from mining model is saved in CUSTOMER MINING_TBS table. For more information, see "Model 1: Prepaid Churn Prediction", and "Model 3: Customer Profiling".
3. There are usually two possible actions when a agreement is due to terminate:
   - Do nothing: In this case the agreement renews itself automatically when it is not actively canceled (assume that the customer will not churn). This is typically the case for a "sleeping" customer" that does not take the latest cheaper offering.
   - Actively contact the customer: In this case, contact the customer before the customer is sent an end agreement term letter (do this if it appears that the probability of customer churn is high and this customer is worth the investment). This action is particularly true for short-term churn-conditions. For example, when a communication is indicated up to one month before the end of the agreement where the customer may get an offer from a competitor. If the agreement ended automatically an action of the Service Provider is required for a renewal.
4. Assuming that Tom Daniels is contacted, SuperTelco needs to know what to propose. Choices for this contact include the following:
   - Renew the agreement with no changes: this is possible but usually after several years this option in not attractive, due to competition.

- Proposing a new offering.
- Renewing the agreement with new hardware and a discount if the customer engages for more than twelve months.

  For the sample use case with Tom Daniels, agreement renewal with new hardware might be a good offering when the handsets for all the family members are old, over two years old, as specified in the information from HANDSET INSTANCE (subtype of EQUIPMENT INSTANCE). By offering a agreement renewal with new hardware, you could allow the customer to use-up some loyalty points he has earned (by selecting different equipment). Additionally, binding the customer to twelve more months according to his ARPU Band could be worth a 12% discount.

  When you offer a new handset, this could provide new capabilities. For example, applications to download that could generate additional revenue for SuperTelco. This expectation can be reinforced due to the age of the children.

5. From the process perspective this use case is similar to the targeted promotion as described in "Sample Use Case 7: Targeted Promotion for Video-on-Demand Services" with similar entities and similar changes. After the customer accepts the new offer, a new AGREEMENT is setup. In addition to the new AGREEMENT, Tom Daniels is granted a gift. In this example, the new agreement offer includes a new handset or a one month data service free pass. How the customer decides to pick up the gift is tracked in REDEMPTION EVENT.
6. Additionally to the party interaction, a non network event is stored in the table REDEMPTION EVENT to contain the free handset information. The free handset comes out of the association with the RETAIL TENDER LINE ITEM (as GIVE AWAY TYPE table assigned from the corresponding product offering (in PRODUCT OFFERING table). The handset itself is in the HANDSET INSTANCE table.
7. If Tom Daniels was not a member of a loyalty program a similar offer could be available; the purchase for this handset offering would be stored into the CUSTOMER ORDER LINE ITEM or PURCHASE ORDER LINE ITEM table.

Sample Use Case 9: Dealer and Employee Sales Commission

This use case expands the details for customer information, as described in the section, "Sample Use Case 2: Acquiring a New Customer (with Family Plan)". This use case provides details for how sales information from a dealer is stored. Recall that in Use Case 2, the customer Tom Daniels asked for a family plan offering with the following features:

- Four numbers: two Postpaid mobile and two PrePaid
- One Friends and Family option

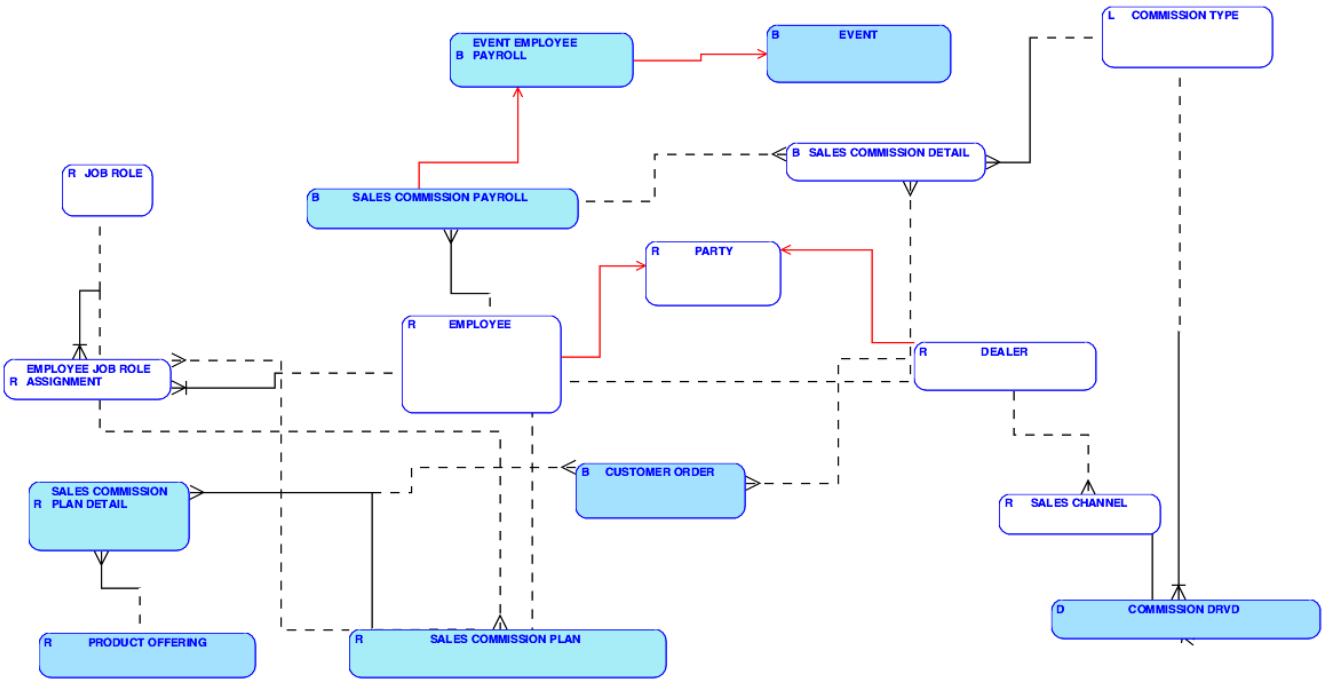
During the interaction the customer calls the call center to get the phone and broadband offering and the Video On Demand Service. Assuming that SuperTelco rewards dealers depending on customer revenue, the number of services and the customer loyalty, one shall consider the commissions and costs spending for dealers and for a given campaign:

Actions for the dealer and employee sales commission use case include the following:

- Party interaction, customer, and dealer
- Impact on commission and cost
- Loyalty campaign cost

SuperTelco uses Oracle Communications Data Model to store this dealer and customer interaction as shown in Figure B–9 and as outlined in the corresponding steps.

Figure B–9 Dealer and Employee Sales Commission Data Model



1. The information for the customer and account setup is described in "Sample Use Case 2: Acquiring a New Customer (with Family Plan)".
2. At implementation time or when the dealer first appeared, the dealer is entered as a DEALER, for example John Dealer, a sub-type of the PARTY table. A DEALER includes the associated entities:
   a. An address (stored in ADDRESS LOCATION and related to DEALER).
   b. A SALES CHANNEL and a channel to identify the dealer. The SALES CHANNEL is an abstracted umbrella that unifies both an external DEALER and the internal sales agents as an EMPLOYEE. The JOB ROLE for each employee is in EMPLOYEE JOB ROLE ASSIGNMENT. For example, the job role for a Sales Employee should be "Sales Agent".
   c. An organization structure or a relationship to individuals (ORGANIZATION BUSINESS UNIT).
   d. A discount group in the DISCOUNT GROUP entity within the DEALER DISCOUNT GROUP ASSIGNMENT table. All the discounts the provider allows for a dealer are defined in DEALER DISCOUNT GROUP ASSIGNMENT (as a group). This entity feeds the dealer cost and customer cost table.
3. As an employee in sales, John Dealer is associated with a sales commission plan code from the SALES COMMISSION PLAN table (using JOB ROLE). The details of the plan SALES COMMISSION PLAN DETAIL or the type of commission COMMISSION TYPE are stored in associated entities so that the full commissions

and rewards for the item, equipment, services, and product market plan sold are set-up. The EMPLOYEE JOB ROLE ASSIGNMENT.

4. The Party interaction between John Dealer and Tom Daniels generates a new CUSTOMER ORDER. The customer order is generated in the BOSS/OSS system and loaded into Oracle Communications Data Model. For each customer order the SALES COMMISSION DETAIL is loaded to track how much commission should be granted to the DEALER in this sales transaction. Once the CUSTOMER ORDER is fulfilled in the provisioning system, an agreement is settled with four activations, four handsets (ITEM SPECIFICATIONs) and probably five products (one per mobile and the shared Friends and Family offering (even if there is only one agreement). This has the following consequences in Oracle Communications Data Model:

   a. John Dealer generated revenue increases and the number of customer and subscriptions: the revenue is compared to the quota the dealer had at the beginning of the month on each of these items, revenue, number of customers, and subscriptions, for the calculation of the dealer's commission and potential bonus and for the final dealer report.

   b. John Dealer "costs" increase correspondingly, as he wins a percentage of the generated revenue.

   c. The number of handsets available at John's shop is reduced by four (two Postpaid and two Prepaid). The out-of-stock forecast mining model is automatically fed and correspondingly updated.

   d. The commission associated with the handsets through the commission indicator attribute ("Commission Ind") will trigger the calculation of an extra commission for the items sold, aggregated on the monthly basis (using COMMISSION DRVD and SALES CAMPAIGN SUMMARY MONTH AGGR).

5. Assuming SuperTelco rewards on the effective revenue generated by the customer, depending on the ARPU band of the account associated with the customer, the special bonus for John Dealer is updated with Tom Daniel's profile and added as a supplementary cost for the dealer and for the customer. Often at this stage a fraud detection mechanism is applied to limit dealer or customer fraud.

6. As Tom Daniels changes the package to the convergent offering, due to a campaign, SuperTelco does not reward John Dealer. The campaign cost may be increased by the cost of creating and sending the SMS, in general, and by the cost of the call center agent interaction. The customer cost could also only be increased by the cost of the call center agent interaction (assuming the SMS sent to Tom Daniels is not considered). The fact that Tom Daniels changes his package will probably impact the Band ARPU that could also change the bonus for John Dealer.

7. As Tom Daniels's agreement comes to an end SuperTelco may decide to reward only the call center as a successful clawback action rather than granting further John Dealer with a bonus for the loyalty of the customer, as the later was not involved at all in the action. The customer cost for Tom Daniels would still increase. The employee and call center cost would also correspondingly increase (here, probably only the employee cost, as the call center cost must be considered to be the sum of the labor, employee, costs and other costs). For example the rent for the building or of the call center service is typically associated with the location of the call center only. Note that its total margin, due to the revenue generation through the agreement renewal, is increasing even if the relative margin will probably decrease over the month.

8. At each end of month when the sales agent commissions are paid by payroll, the information in SALES COMMISSION PAYROLL is populated.

9. Sometimes certain dealers may commit fraud when bringing in new customers. For example, a dealer may have friends sign agreements to win a gift but then terminate the agreement. The new customers brought in by the fraudulent dealer may be identified by SUBSCRIPTION STATISTIC MONTH AGGR. In this table some statistical functions are applied to find a high churn rate by a possibly cheating DEALER, compared to all other dealers.

Sample Use Case 10: Handling a Service Problem

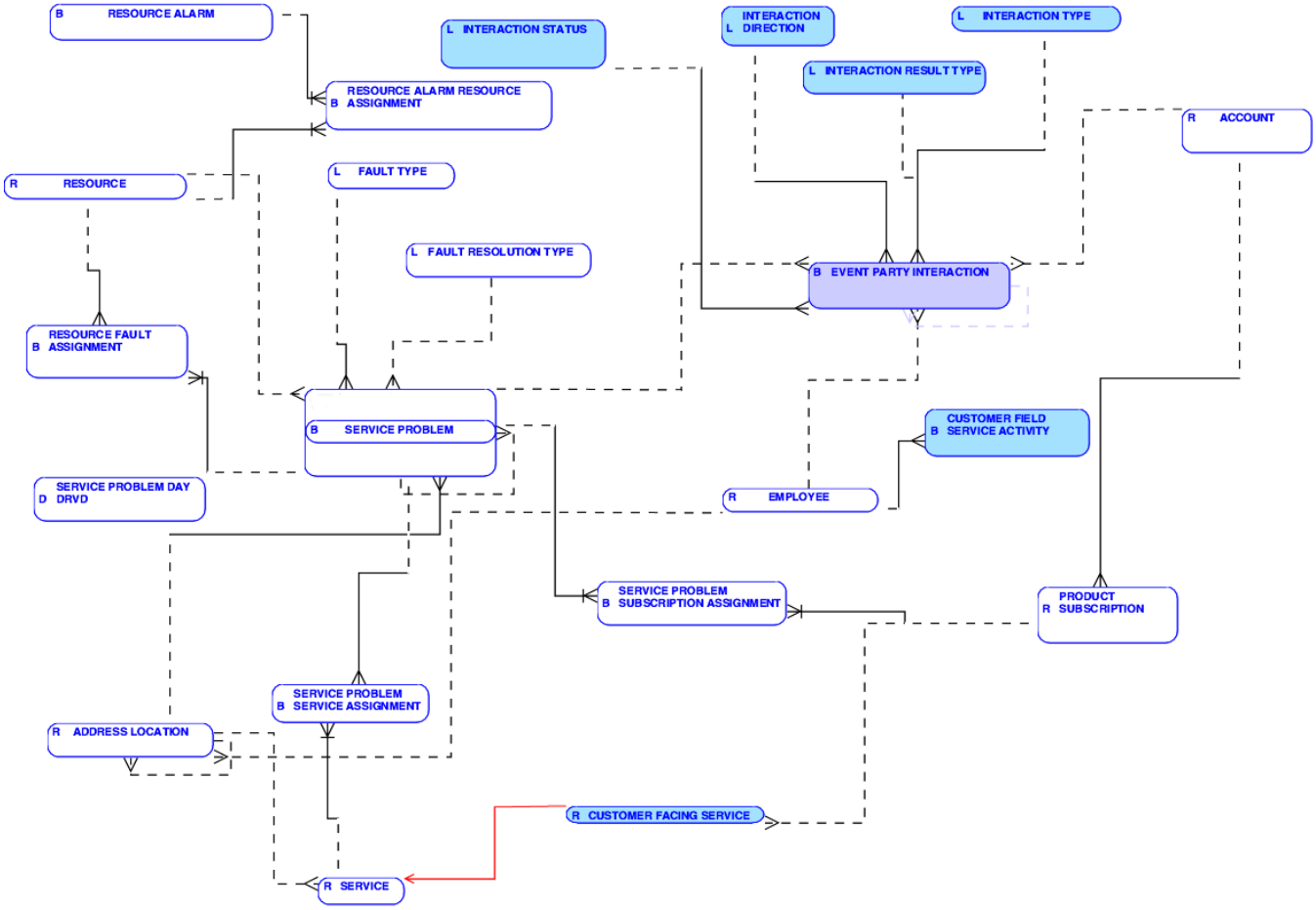
The Network Monitoring System detects a failure at a switch. SuperTelco wants to understand how many customers are affected by the incident. The Network Monitoring System queries the Network Inventory to get the resource ID of the faulty element. The Network Monitoring System then generates a "network failure" event and Oracle Communications Data Model captures this event.

SuperTelco uses Oracle Communications Data Model to handle a network fault, as shown in Figure B–10 and as outlined in the corresponding steps.

SuperTelco includes the full network structure as specified in Oracle Communications Data Model and both the network operating and the network inventory applications provide information to Oracle Communications Data Model once a day.

This model has been strongly extended to better fit the TeleManagement Forum Shared Information Model (TMF SID) ResourceAlarm and ServiceProblem Aggregate Business Entities.

Figure B–10 Handling a Network Fault Data Model



Consider the case and steps required to handle a network fault:

The first questions for the manager after identifying the issue are:

1. One evening at 8pm a network cell suffers a power outage after being hit by lightning, and the network cell goes out and does not restart. The real-time network monitoring system alerts SuperTelco maintenance central. This allows SuperTelco to quickly identify where the failure is (site, location, default configuration before the break-down) and SuperTelco sends a team to look at the issue. Assume that this outage is a cell which is difficult to reach, despite being in a high density population area; thus it takes four hours to the maintenance team to repair and restart the network cell.
2. While the network is down, SuperTelco customers call the call center from fixed lines to complain. Some customers threaten to quit the service if the problem persists.
3. Up to this stage, Oracle Communications Data Model does not play a role. One could assume that Oracle Communications Data Model gets this summary information events, status, and so on, daily (at 2am the following morning). Note if the ETLs for the network controlling applications are configured such that Oracle Communications Data Model is updated in near real-time, for example hourly, then Oracle Communications Data Model may know about the event sooner.

4. The SuperTelco manager gets the network fault information in real-time from the network applications team.
   - Where is the cell located?
   - Whose qualified team is in charge now?
   - Which services are impacted?
   - Which customers may be impacted?
   - What is the average revenue impact if nothing is done?
5. Network applications should be able to answer directly where the cell is located and the team in charge. Note that Oracle Communications Data Model could also identify this information if the ID of the cell that broke down is supplied (even if Oracle Communications Data Model does not yet know that it broke down). A simple adhoc query on the RESOURCE (previously called NETWORK ELEMENT) table, and its sub-tables, could answer the question:

   "Where is my network element ID xxx?"

   To answer the question:

   "Who is in charge according to the maintenance plan?"

   Oracle Communications Data Model can supply this information with a customization of the model (this information is not available out-of-the-box). If the network fault happens to multiple RESOURCEs, all the faulted network elements are tracked in RESOURCE FAULT ASSIGNMENT. We assume that corresponding RESOURCE ALARMs are triggered.
6. Each occurrence of a network failure is recorded in SERVICE PROBLEM. When a network fault happens at customer site, technical support activities to solve the problem are saved in the CUSTOMER FIELD SERVICE ACTIVITY when loaded into Oracle Communications Data Model.
7. Once the network fault is resolved the resolution type of the network fault is loaded according to FAULT RESOLUTION TYPE.
8. The list of services impacted is related to the list of elements which were out. In the sample use case, with a lightning strike, consider the full wireless traffic is down in the area near the antenna. Because this area is a high density area, one could expect that other antennae may partly cover the geographic coverage. In a GSM network, geographic areas are divided into different CELLs which are served by the corresponding BASE STATION CONTROLLER. The BASE STATION CONTROLLER is a subtype COMPOUND RESOURCE (itself a sybtype of RESOURCE). A simple report showing the affected areas and services also lists the services associated with the cell.
9. You can obtain a list of impacted customers through the SERVICE PROBLEM SUBSCRIPTION ASSIGNMENT, which links the network fault to the PRODUCT SUBSCRIPTION table. The later contains the Circuit Component Code attribute that allows you to use the table CIRCUIT COMPONENT to get the NETWORK TOUCHPOINT concerned, the CELL SITE being a sub-table of NETWORK TOUCHPOINT. Consequently, a simple query on all subscriptions whose circuit component is tied to the cell ID that failed provides a list all the customer information associated with the given cell.
10. Similarly, the exact list of products impacted, per customer, can easily be provided (related to the service that is down and the subscriptions concerned).

11. With a list of products impacted, the manager can check how many calls normally run Friday evening between 8pm and 12pm, and get the average revenue generated at that time for those customers. This provides the average revenue loss within the four hours of time-off. The manager may send an email to the call center with the list of potential customers, to warn the call center that within the next three to four hours, those customers may be complaining about a loss of coverage.
12. When a customer calls the call center, an interaction event is created in `EVENT PARTY INTERACTION`, with an interaction type of `Complain`.
13. With the email and the customer list, a call center manager can warn the call center employees, and possibly ask for a additional personnel to manage the potential increase of complaint calls. Not that it is important to identify all the customer calls to the call center, associated with the failed cell that may be related to the network issue. This identification can be done either upfront in real-time by the call center agent or on a later with analysis from Oracle Communications Data Model. Note: the call center manager may have then an explanation ready for the next monthly meeting when he shows the customer satisfaction report.
14. For the most valuable customers that complain and threaten to churn, the customer care manager may decide to run a compensation program. For example, by providing ten free SMS or ten minutes for free next month for private customers and provide a 10% discount for business customers at risk of churning.
15. Later, if these procedures were not carried out, an increase in churn for the following month may be quickly related to the network issue: the default reports might show an alert due to an unusual increase in churn in a specific area (using the outlier function of the database associated to the alert functionality of Oracle Business Intelligence Suite Enterprise Edition).
16. With Oracle Communications Data Model, there are therefore several ways to come to the same conclusion, in our case:
    - The network cell ID (near real-time).
    - The abnormally limited geographic distribution of origin of some complaints (most probably the next two days).
    - The abnormally increase of churn in a limited region (a month later).

Sample Use Case 11: Implementing a Business Area

The CFO requests that the SuperTelco IT manager (Susan) has to implement all the billing related reports of Oracle Communications Data Model

For simplification, assume that:

- The CFO wants to get the value as quickly as possible, so that Susan is not supposed to customize anything unless strictly necessary.
- SuperTelco uses Oracle Business Intelligence Suite Enterprise Edition as the reporting tool.
- Oracle Communications Data Model is installed but all tables are completely empty.

Despite the fact that some DWHs exist, on customers and products, Susan goes forward as for a "greenfield" implementation. But she will reuse part of the work that was done before, either directly from the DWH tables, used as a source to Oracle

Communications Data Model or using the ETLs to directly feed Oracle Communications Data Model tables.

In a second phase, the CFO requests a special report to take the customers that are diplomats and hence do not pay any VAT. A special customer code must be created and the CFO wants a report only for these specially coded customers. Thus, Susan decides she needs to enhance the customer table with a column `Tax Rate Amount` and introduce a new Customer Type: `Diplomat`. These changes should be done in parallel in the CRM, in the Customer DWH, and in the billing system.

To implement these steps, the IT manager, Susan, does the following:

1. The project follows a typical DWH project plan with one important exception: because Oracle Communications Data Model is a "DWH-out-of-the-box", with an optimized design and an automatic data movement, intra-ETL provided, the main challenges for Susan are:
   a. Limiting the Scope of the project to quickly deliver value to the CFO:

      Identifying the reports associated with the chosen business area.

      Identifying the OLAP cubes and Mining needed or wanted by the business.

      Identifying the input tables required to fulfill the expectations.

      Identifying from the source systems the data needed to fill the tables.

   b. Analysis:

      Identifying the gaps between the organization needs and Oracle Communications Data Model out-of-the-box delivery. In Susan's case, one could assume these are reduced to a minimum. If it has not been a "greenfield" implementation, the gap analysis between the existing reports and underlying DWH structure with Oracle Communications Data Model should also be run.

      Identifying and writing down the difference in semantics between the various terms (normally, this should be quickly done after training with Oracle Communications Data Model). Mapping the source systems (in this case, only the billing and maybe the Product and Customer DWH) to Target Data Element.

   c. Design and Development:

      ETL (Billing to Oracle Communications Data Model and other DWH toOracle Communications Data Model).

      Logical Data Model and Reports Design Enhancement

   d. Training and Testing:

      Scenarii creation and run

      Acceptance Testing with some (trained) power-users

   e. Deployment:

      Initial / history data load

      Incremental load

   f. Maintenance:

2. Within a given business area, Susan will find the reports available out-of-the-box (directly looking at the reports themselves or in the associated documentation) and discuss those the CFO wants to see absolutely.

3. Once with the list of reports to feed, Susan checks the documentation to find out the entities from which these reports are filled and the programs used. She first turns to the Oracle Metadata dashboard (visible in Oracle Business Intelligence Suite Enterprise Edition): for each report, she finds all the tables that need to be filled (Dashboard Report-Entities) and gets also access to the Intra-ETLs that access these tables (Dashboard Entities-Programs).
4. Going down to the entity description, she can decide which attributes (columns) per table she needs to fill and compare those with the data she can get out of its different sources. Note that Susan will be able to find which KPIs is associated to which column in the Excel file `OCDM_KPI_Aggr_spec.xls`:
   a. `UDR EVENT` as rated event from the billing system.
   b. `INVOICE` details from the billing system.
   c. Customer data either from the billing or the CRM system, or from its own Customer DWH.
   d. Product and product rating data from either the billing system or its Product DWH.
5. Finally, it is Susan's decision to determine the source and then create the ETLs that load the corresponding information. In this case, she has two possibilities, the choice between the two being rather an architecture/process decision:
   a. She uses the Product and Customer DWHs as the base for true and up-to-date customer and product information (product and customer "hubs" principle). If she used the standard DWH principles, those are probably in 3NF format, thus easing the mapping process to Oracle Communications Data Model base tables for customers, products and services.
   b. She uses the ETLs that were feeding the Product and Customer DWHs and adapt them to feed Oracle Communications Data Model directly.
6. Important for Susan is that, as soon as some data are available in Oracle Communications Data Model, it will be automatically pushed to reporting level, in the OLAP cubes and to the various mining models (following the plan agreed at implementation time). She can therefore cross-check the data at each Oracle Communications Data Model level (reference, base, derived, aggregation,…) and compare them with previous reports she has. The difference in definitions (what is a subscriber, a customer, an offering, a service,…?) must have been run upfront to be able to compare the data and clarify any differences appearing.
7. On the second phase, adding a new type costs nothing but adding one line in the corresponding lookup table (`CUSTOMER TYPE`). The ETLs should be able to reference correctly the new customer type.
8. For the tax customization, Susan will check in the Oracle Metadata dashboard the list of all intra-ETLs and programs hit by a customization of the customer table: in principle, there are a lot impacted. However, with a new attribute, most of them won't need any changes; only those that need to aggregate the result of any facts according to this new column must be extended.
9. With this information, Susan will access and adapt the code of each intra-ETL she needs to. She will then adapt Oracle Business Intelligence Suite Enterprise Edition repository and the sample reports to present the new dimension.

C

Oracle Communications Data Model Assumptions

This chapter describes the basic concepts and assumptions (or business rules) in the Oracle Communications Data Model.

This chapter is organized by subject area in the typical way you might feed data into Oracle Communications Data Model.

- Understanding General Entities includes the general reference entities: Time, Geography, Organization Business Unit (with their hierarchy).
- Understanding Product Offering and Specification Entities: includes Telecommunications specific list of product offerings and specifications.
- Understanding Party, Party Subtypes, and Party Role describes the Party, Customer, Prospects, Partner entities, and the employees and sales representatives (when required or easily available).
- Understanding Events and Usage Entities.
- Understanding Account and Agreement Entities describes accounts, account balances, agreements and product subscriptions.

Oracle Communications Data Model is aligned with TM Forum's Information Framework (SID) Release 12. The TM Forum provides business-critical industry standards and expertise to enable the creation, delivery, and monetization of digital services. For more information on TM Forum, see

http://www.tmforum.org/

Most entity names conform to the TeleManagement Forum Shared Information Data (SID) model Business entities, to ease the mapping when dealing with TM Forum SID certified applications. In nearly all cases, the definitions exactly fit. Hence, several notions in the following can be reviewed and deepened by looking into the TM Forum SID documentation with their examples. From a content perspective however, they usually have more attributes specific to Oracle Communications Data Model.

Understanding General Entities

General entities shown in Table C–1 should be filled upfront either manually (standard Geography hierarchy, Organization Business Units) or automatically (calendars and time of day, geography through Address Location or external data, Standard Organization Business hierarchy through Human Resource (HR) or Enterprise Resource Planing (ERP) system as input).

Table C–1 General Entities

Model Area	Description
Business Unit Code and Business Unit Type Code	These attributes are leveraged for the ORGANIZATION flexible Hierarchy, related to the Organization subject area. Please do not remove and do not mix with ORGANIZATION BUSINESS UNIT CODE (or key).
CALENDAR	Calendars should be filled for 20 years starting with the "smallest" day for which Usage data (in aggregation) will be available (not customer data) and furthest day in the future.
GEOGRAPHY	The default geography of the country, for example, WORLD, REGION, COUNTRY, CITY should be defined upfront whenever possible. Create search functions to simplify the address validation (whether or not add a new CITY or COUNTY row when getting a new address). Addresses should be validated upfront in the source system or at the staging layer. Addresses are supposed to be correct and validated when in Oracle Communications Data Model.
TIME	Please fill the second, minutes, quarter of hours and hours.
TIME SLOT	By default, TIME SLOT should correspond exactly to quarter of hours. You may extend this notion to a bigger time period (for customization), leveraging a time band.

Understanding Product Offering and Specification Entities

Table C–2 Product Offering and Specifications Entities

Entity	Description
PRODUCT OFFERING	Represents what is externally presented to the market for the market's use. A PRODUCT OFFERING can be assembled from a reusable PRODUCT SPECIFICATION (sometimes referred to as "product spec"). PRODUCT OFFERING is physically associated with DWR_PROD_OFR. Typical abbreviation for PRODUCT OFFERING is "Prod Offer" or "Product Offer" or "Prod Offering".
PRODUCT SPECIFICATION	Represent a tangible object or something intangible provided to customers, realized as a 'service' but not to be confused with a network service (TMF SID). Basically, a PRODUCT SPECIFICATION describes the characteristics of what the customer will be able to do once he purchases (the PRODUCT OFFERING is the market vision, while the PRODUCT SPECIFICATION is the effective Component description, from the perspective of a service provider, that are leveraged to compose the PRODUCT OFFERING). It is physically associated with DWR_PROD_SPECIt is physically associated with DWR_PROD_SPEC.
PRODUCT SPECIFICATION VERSION	A particular form or variety of a PRODUCT SPECIFICATION that is different from others or from the original. The form represents differences in properties that characterize a PRODUCT SPECIFICATION, that are not significant enough for creating a new PRODUCT SPECIFICATION.
PRODUCT	A PRODUCT SUBSCRIPTION represents an instance of a PRODUCT SPECIFICATION, typically available for sales or sold (before or after being subscribed to). A Product is an Instance of a PRODUCT SPECIFICATION associated with a PRODUCT OFFERING. In Oracle Communications Data Model, it would typically correspond to some hardware (prepaid card, cell phone, and so on) on the shelf (somewhere) with a specific Serial Number ready to be purchased and used. A PRODUCT SUBSCRIPTION would be the realization of a PRODUCT SPECIFICATION when a Service is associated with the PRODUCT SPECIFICATION (for example a GSM service). PRODUCT corresponds to DWR_PROD).

Table C–2 (Cont.) Product Offering and Specifications Entities

Entity	Description
PRODUCT SUBSCRIPTION	Represents the subscription to a PRODUCT OFFERING by a PARTY playing a PARTY ROLE, such as a Customer. A PRODUCT SUBSCRIPTION is an instance of a PRODUCT SPECIFICATION associated with an ACCOUNT, and optionally (usually) with a service and an access method (same definition as PRODUCT otherwise). PRODUCT SUBSCRIPTION allows each part of a PRODUCT OFFERING (typically based on COMPOSITE PRODUCT SPECIFICATION) to be realized and instantiated separately, "atomic" product specification would be used to describe "trouble ticket" or "product subscription change", by atomic PRODUCT SPECIFICATION to allow actions such as trouble ticket or product subscription change against specific ones (and not just the composite Spec). This is also necessary if a PRODUCT OFFERING has a tariff (PRODUCT OFFERING PRICE) depending on the flexible characteristic associated to a PRODUCT SPECIFICATION. In Oracle Communications Data Model the PRODUCT SUBSCRIPTION will not carry the AGREEMENT nor its agreement details (AGREEMENT ITEM). AGREEMENT ITEM holds the Product subscription Key. Through AGREEMENT ITEM, one can find out the Agreement Key. As a consequence, a change in PRODUCT SUBSCRIPTION may imply a change in AGREEMENT ITEM (typically for postpaid but not only) but not in AGREEMENT. The attributes "Product Subscription Status code" and "Status code" should always be filled and equal.
PRODUCT LINE	A method used to group related PRODUCT SPECIFICATIONs marketed by the same company that differ only in size or style. This strict definition (TMF SID) is in fact open for any definition that fits the Communications Service Provider (CSP).
PRODUCT SPECIFICATION CATEGORY	A method used to group a set of PRODUCT SPECIFICATIONs that are classified together because of common characteristics. This strict definition (TMF SID) is in fact open for any definition that fits the CSP.
Plan Type	The attribute Plan Type in PRODUCT OFFERING corresponds to either "Prepaid" or "Postpaid". It is used in the PRODUCT OFFERING Hierarchy. Possible extensions are "Hybrid" but should be carefully looked at, especially with respect to the implications on some critical intra-ETLs such as COUNT DAY DRVD, REVENUE DAY DRVD and others.
SKU ITEM	SKU ITEM tracks physical inventory. Hence, there must be one row (that is one key) per concrete object. SKU ITEM can roll up to two hierarchies: ITEM SPECIFICATION and PRODUCT SPECIFICATION. Those two hierarchy attributes are present in SKU ITEM.

Table C–2 (Cont.) Product Offering and Specifications Entities

Entity	Description
ACCESSORIES, HANDSET MODEL and EQUIPMENT	These are a subset of SKU ITEM with fewer attributes and some unique attributes. Just like SKU ITEM, they can roll up to ITEM SPECIFICATION or PRODUCT SPECIFICATION. ACCESSORIES are always add-ons to a main item. For each instances of ACCESSORIES, EQUIPMENT and HANDSET MODEL (in their respective DWR_XXX_INSTNC tables), do the following: ▪ Add automatically 1 row to DWR_SKU_ITEM for each row of those instances with all the columns you can feed. ▪ SKU_TYP_CD values should have additional lookup values such as: 'ACCESSORIES', 'EQUIPMENT', 'HANDSETMODEL';
SUPPLEMENTARY SERVICE	In Oracle Communications Data Model, only Postpaid-related supplementary Services have been picked, leveraging any PRODUCT SPECIFICATIONs defined in DWR_SPLMNTR_SRVC. Note however that the supplementary service derived table only runs over PRODUCT SPECIFICATION, looking for specific Product Specification codes, instead of linking to DWR_SPLMNTR_SRVC, because the target attributes are fixed.
VAS Service	Value-Added Service VAS applies only to WIRELESS CALL EVENT: the following tables should be taken. The current Intra-ETL version for VAS Usage derived, only uses DWB_ISP_USG_EVT, DWB_MMS_EVT, DWB_UDR_EVT, and DWB_SMS_EVT. DWB_UMS_EVT, DWB_WRLS_CALL_EVT DWB_WRLS_CALL_EVT DWB_SMS_EVT DWB_MMS_EVT DWB_WRLS_CNTNT_DNLDG_EVT DWB_CNTNT_DLVRY_EVT DWB_GPRS_USG_EVT DWB_ISP_USG_EVT DWB_UMS_EVT DWB_WRLS_RMNG_EVT

Understanding Party, Party Subtypes, and Party Role

Table C–3 Party and Party Subtype Entities

Entity	Description
CUSTOMER	Customer has PROFILES and they have sub types of Individual and Business (termed as Organization). In addition Customer Contains PROSPECT also plus other related reference entities such as Customer Financial and Non Financial relationship (Accounts, Affiliation, Group, Occasion, Preference, Demography). Some of the "Named" Demography attributes are kept in CUSTOMER entity.
PARTY and PARTY ROLE	A party is an umbrella relationship across customer, vendor, employee and similar entities. For a given natural key, a Party ID ties up all these disparate entities and allows to leverage each other while maintaining their individual signatures. Remember PARTY as an after thought which enables you to tie together the disparate entities with a common ID based on same Natural key. By definition all these disparate entities are created at a different time frame with diverse OLTP systems but all of them would carry same natural key if the same party is defined in the system as a customer, an employee and a vendor as well. By default, only two types of PARTY are available in Oracle Communications Data Model: Individual and ORGANIZATION. This can be extended but consider extending and also updating the various tables associated with a PARTY ROLE such as CUSTOMER if they are impacted. The same party can play several party roles with respect to the CSP: A person could be customer, employee and dealer of the CSP at the same time. It would have the same party key. But for a given interaction or event, only one party role is typically used (unless he sells to himself a product offering, for example). Standard Party Roles like CUSTOMER, VENDOR, DEALER, EMPLOYEE, SALES CHANNEL REPRESENTATIVE are pre-defined in Oracle Communications Data Model with their sub-types.

Understanding Events and Usage Entities

There are several types of events to distinguish in Oracle Communications Data Model:

- About Business Interactions describes business interactions in general (as super type) and Party Interaction Events.
- About Agreements describes agreements (as a subtype of Business Interaction but differing from Event Party Interaction).
- About BSS/OSS Interaction Events describes events related to BSS or OSS systems that are neither Business Interactions nor Agreements, that is, not defined either of these.
- About Usage Events (UDR Events) describes usage event, also called UDR Events, and their numerous subtypes.
- Network related events like ResourceAlarm, Service Problems and Performance Measurement events. There is no specific section in this document as their definition (as in the TMF SID) immediately provides the scope of data to be used. Note that TROUBLE TICKET is a sub-type of BUSINESS INTERACTION that is (usually) related with one or more SERVICE PROBLEM(s) and one or more RESOURCE ALARM(s).
- About Process Events describes process events (from an application perspective) and describes any process in the telecommunication world that needs to be monitored: Billing, Service Fulfillment, and so on. Such events are usually directly related with KPIs.

About Business Interactions

Business Interactions are related to the transactions stored into back office applications. Table C–4 describes business interactions.

Table C–4 Business Interactions

Entity	Description
BUSINESS INTERACTION and BUSINESS INTERACTION HISTORY	Maintain these entities as two identical entities with identical structure. BUSINESS INTERACTION is created once for a given interaction and should be subsequently updated with *the latest status*, whereas BUSINESS INTERACTION HISTORY always has a new record created for the same interaction with different status code (STAT_CD) and transaction date (TRX_DT).
EVENT PARTY INTERACTION	Use by default for all business interactions involving a PARTY, which are not AGREEMENT.
PURCHASE ORDER	This is when the CSP sends a purchase order to a VENDOR. It has nothing to do with Customers (stored in CUSTOMER ORDER).

Table C–5 lists the tables that are sub-types of BUSINESS INTERACTION or related to business interactions.

Table C–5 Business Interaction Tables

Business Interaction Tables (Back office Applications Transactions)
DWB_AGRMNT_APRVL
DWB_AGRMNT_TERM
DWB_BSNS_INTRACN
DWB_BSNS_INTRACN_HIST
DWB_BSNS_INTRACN_ITEM
DWB_BSNS_INTRACN_ITEM_PRICE
DWB_BSNS_INTRACN_PYMT_ASGN
DWB_BSNS_INTRACN_RL
DWB_BSNS_INTRACN_VRSN
DWB_CNSEQ_PRFMNC_NTFCTN
DWB_CUST_ORDR
DWB_CUST_ORDR_LN_ITEM
DWB_INVC_ADJ
DWB_NP_RQST_HDR
DWB_NP_RQST_LN_ITEM
DWB_PCHSE_ORDR
DWB_PCHSE_ORDR_LN_ITEM
DWB_PCHSE_ORDR_LN_ITEM_STATE
DWB_PCHSE_ORDR_STATE
DWB_PRFMNC_NTFCTN
DWB_RSCE_BSNS_INTRACN_RL
DWB_RSCE_ORDR
DWB_RSCE_ORDR_ITEM
DWB_SRVC_ORDR
DWB_SRVC_ORDR_LN_ITEM

Table C–5 (Cont.) Business Interaction Tables

Business Interaction Tables (Back office Applications Transactions)
DWR_ACCT_BSNS_INTRACN_RL
DWR_AGRMNT
DWR_AGRMNT_ITEM
DWR_BSNS_INTRACN_CHAR_VAL
DWR_BSNS_INTRACN_LOC_ASGN
DWR_EQPMNT_RNTNG_AGRMNT
DWR_INSTLMNT_AGRMNT
DWR_PRTY_BSNS_INTRACN_RL
DWR_SRVC_LVL_AGRMNT
DWR_SRVC_LVL_AGRMNT_ITEM
DWR_VNDR_AGRMNT

Use the table DWB_BSNS_INTRACN for all business interaction cases not covered by EVENT PARTY INTERACTION or AGREEMENT.

About Business Interaction Item Tables

The ITEM CODE in this entity is only a sequential number for business interaction detail. It has nothing to do with ITEM SPECIFICATION (DWR_ITEM_SPEC) or SKU ITEM. This also applied to AGREEMENT ITEM.

SEQ in Table C–6 means a number representing the rank in a series of objects is expected.

Table C–6 Business Interaction Items Tables

Table	Sequence Number
DWB_AGRMNT_TERM	SEQ
DWB_BSNS_INTRACN_ITEM	SEQ
DWB_BSNS_INTRACN_ITEM_PRICE	SEQ
DWB_CUST_FLD_SRVC_DTL	SEQ
DWB_CUST_ORDR_LN_ITEM	SEQ
DWB_EVT_PRTY_INTRACN_ITEM	SEQ
DWB_NP_RQST_LN_ITEM	SEQ
DWB_PCHSE_ORDR_LN_ITEM	SEQ
DWB_PCHSE_ORDR_LN_ITEM_STATE	SEQ
DWB_RSCE_ORDR_ITEM	SEQ
DWB_SRVC_ORDR_LN_ITEM	SEQ
DWB_TRBLE_TCKT_ITEM	SEQ
DWR_AGRMNT_ITEM	SEQ
DWR_SRVC_LVL_AGRMNT_ITEM	SEQ
DWR_BSNS_INTRACN_LOC_ASGN	SEQ

Table C–6 (Cont.) Business Interaction Items Tables

Table	Sequence Number
DWR_BSNS_INTRACN_CHAR_VAL	SEQ

About Event Party Interactions

The event party interactions stores all interactions with a party, whether by phone, letter or fax, on-site visit (whether a party enters a shop or gets the visit of a sales representative), chat on the web or simple web navigation.

The EVENT PARTY INTERACTION should be used by default for all business interactions involving a PARTY, which are not AGREEMENT.

The related EVENT PARTY INTERACTION ID should point to the first EVENT PARTY INTERACTION related to the same subject ("Thread"). Hence, to have the list of interaction related to each other, they will ALL have the same RLTD_INTRACN_ID except the 1st one (empty).

The assumed logical hierarchy is: EVENT => BUSINESS INTERACTION => EVENT PARTY INTERACTION.

When no specific table for a given EVENT PARTY INTERACTION is available in Oracle Communications Data Model, as shown in Table C–7, use the generic EVENT PARTY INTERACTION.

When no specific tables for a given BUSINESS INTERACTION which is neither EVENT PARTY INTERACTION, AGREEMENT, or CUSTOMER ORDER, use generic BUSINESS INTERACTION.

When no specific tables for a given EVENT (see list in EVENT_BSNS_INTRACN_INFORMATION worksheet), use generic EVENT table (DWB_EVT).

Table C–7 shows the list of entities related to EVENT PARTY INTERACTION.

Table C–7 Event Party Interaction Tables

Event Party Interaction (Contact Center)
DWB_APNMNT
DWB_CUST_FLD_SRVC_ACTVTY
DWB_CUST_FLD_SRVC_DTL
DWB_EVT_PRTY_INTRACN
DWB_EVT_PRTY_INTRACN_CHAT_DTL
DWB_EVT_PRTY_INTRACN_ITEM
DWB_EVT_PRTY_INTRACN_PRTCPTN
DWB_INTRACN_NAVGTN_HIST
DWB_INTRACN_QUES_RESPN
DWB_INTRACN_TRNSFR_HIST
DWB_IVR_INTRACN_NAVGTN_HIST
DWB_PRTY_PRMTN_RESPN
DWB_SRVC_RQST
DWB_TRBLE_TCKT
DWB_TRBLE_TCKT_FLD_SPPRT_ASGN

Table C–7 (Cont.) Event Party Interaction Tables

Event Party Interaction (Contact Center)
DWB_TRBLE_TCKT_ITEM
DWB_WEB_INTRACN_NAVGTN_HIST
DWR_EVT_PRTY_INTRACN_CHAR_VAL

The trouble ticket is more the result of an interaction but, since it could be directly created by a third party or the customer itself (typical by support request systems).

EVENT PARTY INTERACTION ITEM is a subtype of BUSINESS INTERACTION ITEM (as EVENT PARTY INTERACTION is a subtype of BUSINESS INTERACTION).

If, for any reason, some entities related to the super-type (BUSINESS INTERACTION) are required to add information to EVENT PARTY INTERACTION that are not available otherwise, the creation of a row in BUSINESS INTERACTION is then required with EVENT CODE (EVT_CD) and INTERACTION ID (INTRACN_ID) in BUSINESS INTERACTION being copied from EVENT PARTY INTERACTION. Only the required keys shall be copied (and the Business Interaction type = "EVENT PARTY INTERACTION"). The hierarchy is EVENT => BUSINESS INTERACTION => EVENT PARTY INTERACTION. This duplication of information is only required to avoid customization and benefit, only where needed, of the super-type/subtype relationships.

About Agreements

Agreement (DWR_AGRMNT) shall be used by default for all agreements, prepaid (tacit or explicit), postpaid, interconnection and roaming, reseller, and so on.

Agreement KEY and INTERACTION ID should have identical value. The interaction ID field is just to ensure that it is a child of BUSINESS INTERACTION (similarly for AGREEMENT ITEM).

An invoice requires an agreement but an agreement may have 0 to n invoices related.

About BSS/OSS Interaction Events

Any events which are not a Business interaction nor an AGREEMENT as such, shall be a subtype of EVENT. It could typically be a purely technical event (Activation, suspension, deactivation and so on).

For example, a EVENT PRODUCT SUBSCRIPTION WIRELESS (DWB_EVT_PROD_SBRP_WRLS) could be used to store information of the EVENT of activation, suspension and deactivation. It shall not prevent updating the status of the corresponding PRODUCT SUBSCRIPTION (DWR_PROD_SBRP).

Table C–8 lists the tables that would correspond to such an event with their sources (assumed). Please note that BLLG stands for Billing Application, TXN for Transaction, CRM for Customer Relationship Management Application, FIN for Finance Application (such as JD Edwards, ERP or other), and HR for Human Resource applications (like PeopleSoft or others). NTWK stands for Network Applications (typically the network monitoring or Server control applications).

Table C–8 BSS/OSS Interaction Event Tables

EVENT TABLES (HR/Billing/Financial/CRM) Transactions not result	Source TYPE
DWB_ACCT_BAL_IMPC	BLLG TXN

Table C–8 (Cont.) BSS/OSS Interaction Event Tables

EVENT TABLES (HR/Billing/Financial/CRM) Transactions not result	Source TYPE
DWB_ACCT_PYMT	BLLG TXN
DWB_BLK_LST_HIST	CRM TXN
DWB_EMP_EXP_RPT	HR/FIN TXN
DWB_EMP_EXP_RPT_ITEM	HR/FIN TXN
DWB_EMP_EXP_RPT_STATE	HR/FIN TXN
DWB_EVT	CRM TXN a priori
DWB_EVT_ACCS_MTHD_ACTVTY	CRM TXN
DWB_EVT_ACCT	CRM TXN
DWB_EVT_AGRMNT	CRM TXN
DWB_EVT_CMPST_PROD_SPEC	CRM TXN
DWB_EVT_COST	FIN TXN
DWB_EVT_CRCUT_RNTL	CRM TXN
DWB_EVT_EMP_ACTVTY	HR TXN
DWB_EVT_EMP_PYRL	HR TXN
DWB_EVT_EQPMNT_INSTNC	CRM TXN
DWB_EVT_FINCL	FIN TXN
DWB_EVT_GEO	CRM TXN
DWB_EVT_LYLTY_PROG	CRM TXN
DWB_EVT_PROD_SBRP_WRLS	CRM TXN
DWB_EVT_PRPD_MBL	CRM TXN
DWB_EVT_PRTY_ASGN	CRM TXN
DWB_EVT_PRTY_PRFL	CRM TXN
DWB_EVT_SBRP_CHNG	CRM TXN
DWB_EVT_SIM_CARD	CRM TXN
DWB_EVT_STAT	CRM TXN
DWB_EXP_RPT_PRTY_ASGN	HR/FIN TXN
DWB_PRICE_EVT	BLLG TXN
DWB_PRPD_RCHRG	BLLG TXN
DWB_PTV_FULL_CHNL_ACTVTN	CRM TXN
DWB_SL_CMISN_DTL	HR/FIN TXN
DWB_SL_CMISN_PYRL	HR/FIN TXN
DWR_EVT_LOC	CRM Reference
DWR_ISP_USER	NTWK Reference
DWR_PRCE_EVT_PRODOFR_PRCE_ASGN	BLLG Reference

About Usage Events (UDR Events)

There are many pre-defined types of usage event data records. Call Data Records or any usage data records should be loaded into the corresponding UDR EVENT table (or any of its sub-entities that are more or less directly corresponding to the considered data record).

There are important assumptions for UDR Events:

- A UDR shall be stored in one table only. It is not required to repeat it in the super entity.
- It is recommended to create a sub-entity of UDR EVENT for each group of usage with their specific characteristics if they are not already pre-defined in Oracle Communications Data Model. Otherwise, use the corresponding tables. The Intra-ETL should be correspondingly expanded to take those new tables into account (where relevant).
- A UDR EVENT shall be stored in daily partitions (or lower) leveraging the starting date of the usage event (EVT_STRT_DT). In particular, if late CDRs (like Roaming) are loaded, they have to be loaded in the older partitions!

  The BILLING DATE field shall be used to flag WHEN the UDR EVENT was loaded to the Billing System (if any). It means "BILLING SYSTEM DATE". It is not the necessarily date at which the event has been billed (put to an invoice). Note that for Prepaid, BILLING SYSTEM DATE and EVT_STRT_DT should be very similar if not equal (or maybe equal to EVT_END_DT!).
- For the Intra-ETL treatment in Oracle Communications Data Model, the current time windows considered applies on the EVENT START DATE. An alternative (customization) would be to use the UDR EVENT BILLING_DATE to determine which CDRs are to be considered.

Whenever a new type of usage data record is available, you have several choices:

- Map it to an existing table that match the definition, adding as many missing fields as required (but knowing that those fields will not be considered by default by the intra ETLs).
- Map what is possible to the UDR EVENT table (or any sub-table) to only keep track of its presence in Oracle Communications Data Model as well as the fields used by the Intra-ETL but do not extend the other fields (quickest way for out-of-the-box implementation of Oracle Communications Data Model, knowing the data will not allow detailed and complete analysis on fields that are not stored).
- Create a subtype of the UDR Event table adding all the fields required and modifying the Intra ETLs to take it into account where required

The best alternative depends on the project condition. But keeping as much atomic information as possible is usually preferred unless the data amount or effort to load it is not worth the potential business value. In such case, a pre-processing in the staging area or through big data might be worth considering (for example, for network signaling data).

Table C–9 lists the pre-defined tables for UDR Events.

Table C–9 Predefined UDR Event Tables

UDR EVENT TABLES (Network Transactions)	Source TYPE
DWB_BRDBND_USG_EVT	UDR EVT
DWB_CNTNT_DLVRY_EVT	UDR EVT

Table C–9 (Cont.) Predefined UDR Event Tables

UDR EVENT TABLES (Network Transactions)	Source TYPE
DWB_DATA_SRVC_EVT	UDR EVT
DWB_ERRD_MDTD_CALL_EVT	UDR EVT
DWB_ERRD_RAW_WRLS_CALL_EVT	UDR EVT
DWB_ERRD_RTD_WRLS_CALL_EVT	UDR EVT
DWB_FIXED_LN_CALL_EVT	UDR EVT
DWB_GPRS_USG_EVT	UDR EVT
DWB_IDD_CALL_EVT	UDR EVT
DWB_INTRNT_ACCS_EVT	UDR EVT
DWB_ISP_USG_EVT	UDR EVT
DWB_MDTD_CALL_EVT	UDR EVT
DWB_MMS_EVT	UDR EVT
DWB_PTV_QPI_SRVC_EVT	UDR EVT
DWB_PTV_USG_EVT	UDR EVT
DWB_RAW_MMS_EVT	UDR EVT
DWB_RAW_WRLS_CALL_EVT	UDR EVT
DWB_RTD_UDR_EVT	UDR EVT
DWB_SMS_EVT	UDR EVT
DWB_TAP_IN_WRLS_RMNG_EVT	UDR EVT
DWB_TAP_OUT_WRLS_RMNG_EVT	UDR EVT
DWB_UDR_EVT	UDR EVT
DWB_UMS_EVT	UDR EVT
DWB_VOIP_CALL_EVT	UDR EVT
DWB_WRLS_CALL_EVT	UDR EVT
DWB_WRLS_CNTNT_DNLDG_EVT	UDR EVT
DWB_WRLS_RMNG_EVT	UDR EVT

About Process Events

Process events are meant to store and manage the various eTOM ("enhanced Telecommunications Operations Mapping") processes run in the Telecommunications industry, from a process perspective. Process events are mainly aimed to measure Operational Excellence.

A complete generalized model of processes has been created, with default parameters (such as Manual Indicator, Customer Type, Billing Cycle, and so on). You can use the default parameters and an open parameter list with "operators" (GREATER THAN, BETWEEN, LIKE...) and values to cover many changeable processes.

Similar to other areas, Oracle Communications Data Model uses a PROCESS (definition) and PROCESS SPECIFICATION (for the grouping of similar processes with similar characteristics), with their relationships. And an instance or run of a given process occurs through a PROCESS EVENT, referring to a PROCESS. PROCESS EVENT that are sequentially related should be stored in PROCESS EVENT ASSIGNMENT, normally

illustrating the PROCESS RELATIONSHIP previously defined. However, since nothing runs necessarily fine forever, the PROCESS EVENT ASSIGNMENT allows relationships between PROCESS EVENTs that are normally not related. For example, after several tentative of automatic invoice recycling, a manual invoice review could take place. All those processes are expected to be stored and related through this entity.

Oracle Communications Data Model is not designed to act as a Process Management Tool. Oracle Communications Data Model shall only be the information collector to enable end-users to improve their daily tasks by providing them the relevant or right information at the right time in the breadth they need, and allowing them to deepen their analysis down to atomic level of any area they are entitled to search.

Oracle Communications Data Model provides an example and illustration for the following processes: the billing cycle from invoice generation and printing (issuing) to invoice dispatching.

PROCESSes also measure some of the TMF KPIs with respect to Billing Operational efficiency. For those specific measures in particular, one has to look into the generation process for all invoice-related processes that occurred in a given month.

One can create a specific subtype of process event table to make sure all the statistics related to the process is stored - if the default statistics are not sufficient. One must be aware however that the multiplication of sub-tables for processes may tend to confuse the reader or make the model hard to follow and keen to error (by forgetting to link or check one or the other sub-table). As always, it is a matter of balance.

With respect to the derived layer, do not mix INVOICE DRVD (DWD_INVC_DAY) and PROCESS INVOICE DAY DRVD (DWD_INVC_PRCS_DAY). The first summarize the invoice information available at a given day (equal to BILLING DATE) while the other collects information about the end-to-end process, observed from the end-date of the Dispatching process. Recall that not only the invoice generation process but any type of process could be monitored if the information is fed to the process tables.

Understanding Account and Agreement Entities

Oracle Communications Data Model defines a hierarchy between the ACCOUNT, AGREEMENT, and PRODUCT SUBSCRIPTION:

- Account: The financial vision of a customer or the payer (in TMF SID, it corresponds to CustomerAccount). An account can have sub-accounts (through ACCOUNT RELATIONSHIP) if required.
- AGREEMENT: an agreement must be associated with ACCOUNT. They must be defined for Postpaid (typically equivalent to contract) and can be defined for Prepaid (possibly as instance of a tacit pre-defined agreement). It is the implementor's choice (and a business decision). It is however expected in most Intra-ETLs that a dummy agreement is created with the main PRODUCT OFFERING associated for each Prepaid account.

Data Model and Entity Notes

Notes on data model entities.

Table C–10 Notes Table

Entity	Description
Invoice	If Invoice Creation Date is not defined, BILLING DATE shall be used. Note that BILLING DATE must be present as it is used for several Intra-ETLs and several links. Outstanding Invoices are Invoices to be paid, not necessarily overdue, but at least dispatched. Overdue invoices are invoices not being paid by (end of) DUE DATE.

Table C–10 (Cont.) Notes Table

Entity	Description
Age On Net	AGE_ON_NET can be defined for whatever "entity" (Agreement, customer, product subscription) one considers. By default, the creation date (CRT_DT) or start date (STRT_DT) shall be used and not worry too much about "holes" (approximation). The following lists the various "ages" Oracle Communications Data Model could consider (only the first choice is used by default): ■ CONTRACT AGE: Age of the current (or considered) contract. it starts on contract start date and stops increasing when contract is churned. ■ CUSTOMER AGE ON NET: to calculate it correctly, one would require that the following should be stored at CUSTOMER level (customization): ■ AGE_ON_NET_START_DATE: earliest date of any(!) agreement (postpaid or prepaid) at which the customer started being active. ■ AGE_ON_NET_TOT_MISSINGMONTHS: Total number of months (decimal) where the customer was absent (not active, without any agreements) to cover any holes, and so on. The formula should then be: AGE_ON_NET (default in months) = CEIL(MONTHS_BETWEEN(SYSDATE,AGE_ON_NET_START_DATE) MINUS AGE_ON_NET_TOT_MISSINGMONTHS). To simplify this in Oracle Communications Data Model: AGE_ON_NET (default in months) = CEIL(MONTHS_BETWEEN(MIN(SYSDATE, nvl(CHRN_DT, to_date('20990101','yyyymmdd'))),CRT_DT)) Please note the approximation that CUSTOMER effective start date is considered to be its CREATION date. Similarly, CONTRACT AGE (default in months) = MONTHS_BETWEEN(MIN(SYSDATE, nvl(END_DT, to_date('20990101','yyyymmdd'))), STRT_DT).
Loyalty	Loyalty is a specific subject area as such. In Oracle Communications Data Model the Loyalty program and balances are associated with a specific MEMBERSHIP ACCOUNT, which is only associated to customer (and not to ACCOUNT). Any event that could impact Loyalty points should be stored in EVENT LOYALTY PROGRAM (DWB_EVT_LYLTY_PROG) and from there, the ETL (not the intra-ETL!) should also feed DWB_ACCRUAL_EVT (points winning) and DWB_REDEM_EVT (redemption, expiration) ACCOUNT BALANCE IMPACT records with ACCT_BAL_TYP Like '%LYLTY%' should have a corresponding event created into DWB_LYLTY_PROG_EVT records. MEMBERSHIP ACCOUNT BALANCE HISTORY is a snapshot (similar to ACCOUNT BALANCE) The events that could feed EVENT LOYALTY PROGRAM as earning points should all come from Billing System, whatever their origin (usage, customer order, payment...). It is however possible to also link a pure retail transaction but this has to be done explicitly in Oracle Communications Data Model (Customization). The events that could feed LOYALTY PROGRAM EVENT as redemption are of 3 types: ■ Retail transaction ■ Customer Order ■ Account Payment (Payment with points) Please not that the Derived Loyalty table is only at LOYALTY PROGRAM level. Table C–11 provides information on a Loyalty events

Table C–10 (Cont.) Notes Table

Entity	Description
Count Day	The COUNT DAY DRVD stores all counts with respect to customer, account, agreement, product subscriptions, to be able to get at any day in time the effective count of the entity status at the end of a given day. Oracle Communications Data Model assumes that if either Customer Surrogate Key, Account Surrogate Key or Agreement Surrogate key changes, the associated product subscriptions (Product subscription key) shall also change. If for Customer and ACCOUNT, it is clear due to the (forced) links between account/customer and product subscription, this link is not compulsory between agreement and product subscription. (It could easily be made as customization). The link between agreement and Product subscription is only through AGREEMENT ITEM, and agreement can change in principle without impacting product subscription.

Table C–11 Loyalty Event Additional Information

Physical Column Name	Logical Column Name (and comments)		
In DWB_EVT_LYLTY_PROG	In DWB_EVT_LYLTY_PROG	Redemption	Earning
ACCT_BAL_TYP _ CD	Account Balance Type Code	RTL_TNDR_LI(retail receipt is not part of Invoice) => NULL/ CUST_ORDR => no INVC_CD => NULL Acct_Pymt. ACCT_BAL_TYP_CD	ACCT_BAL_TYP_CD of ACCT_BAL_IMPC_BAL
ACCT_KEY	Account Key	ACCT_KEY from all 3 transactions	ACCT_KEY of ACCT_BAL_IMPC_BAL
CRNCY_CD	Currency Code	Retail: ISO_CRNCY_CD CUST_ORDR: ISO_CRNCY_CD ACCT_PYMT: CRNCY_CD	Not applicable.
EVT_CD	Event Code Code of the event that caused the impact to the loyalty points	CUST_ORDR_NBR / RTL_TNDR_LI_TRX_NBR/ Acct_Pymt_CD	whatever is in EVT_CD (+ acct_key+ acct_bal_typ_key) of ACCT_BAL_IMPC_BAL
INVC_CD	Invoice Code	RTL_TNDR_LI(if retail receipt is not part of Invoice) => NULL CUST_ORDR => no INVC_CD => NULL Acct_Pymt.INVC_CD otherwise	Only if relevant and available.
LYLTY_PROG_EVT _ TYP_CD	Type of Event Number stored as text to give some flexibility in event type. You may add at least 999 different codes if required.	'3000' or '3xxx'	'2000' or '2XXX'
PRMTN_KEY	Promotion	What is bought through redemption is always a Promotion: RTL_TNDR_LI: CPN_TNDR_PRMTN_KEY CUST_ORD : PRMTN_KEY ACCT_PYMT: PRMTN_KEY	
PRTY_LYLTY_PROG _PRTCPTN_KEY	PARTY Participation to the Loyalty Program One can choose which party one wants to store here: The partner or the customer.	Best way: access DWR_LYLTY_ACCT_IDNTFR table (through MEMBERSHIP ACCOUNT ACCOUNT IDENTIFIER = FREQ SHOPPR NBR for RETAIL and CUST ORDR and MEMBERSHIP ACCOUNT ACCOUNT IDENTIFIER for PAYMNT) + get LYLTY_PROG from this table Alternative: Use through CUST_KEY (PRTY_KEY) and find LYLTY_PROG in DWR_PRTY_LYLTY_PROG_PRTCPTN	Similar as earning is not immediately available in the event.

Table C–11 (Cont.) Loyalty Event Additional Information

Physical Column Name	Logical Column Name (and comments)		
In DWB_EVT_ LYLTY_PROG	**In DWB_EVT_LYLTY_ PROG**	**Redemption**	**Earning**
RDMPTN_TYP_CD	Redemption Type Code	RTL_tndr_LI & Cust ORDR => "Amount Redeemed" ACCT_PYMT=> ACCT_PYMT_RSN_TYP_CD	null
REDMD_AMT	Redeemed Amount	RTL_tndr_LI: TNDR_AMT Cust_ord: EXTND_AMT ACCT_PYMT:PYMT_AMT	Not applicable.
SL_CHNL_KEY	Sales Channel Key	RTL_tndr_LI: Use null or ORG_BSNS_UNIT_TYP_ CD Cust_ord: SL_CHNL_KEY ACCT_PYMT:PYMT_CHNL_KEY	Not applicable.
SL_CHNL_RPRSTV _ KEY	Sales Channel Representative	Retail: OPRTR_EMP_KEY CUST_ORDR: SL_CHNL_RPRSTV_KEY ACCT_PYMT: EMP_KEY	Not applicable.
TRX_DT	Transaction Date	CUSt_ordr. INTRACN_DT rtl_tndr_li: END_DT_TIME acctpymt: pymt_DT	Event start date that caused the increase in loyalty points.

D

Physical Table and Logical Data Model Changes for Release 11.3.2

This appendix includes the following sections:

Oracle Communications Data Model PDM Release 11.3.1 to Release 11.3.2

This section includes the following tables:

Table D–1 Physical Tables Added for Release 11.3.2

Table Name
DWA_INV_POSN_DEPT_DAY
DWA_INV_POSN_SBC_MO
DWA_INV_RCPT_SBC_WK
DWA_RTL_SL_RETRN_DEPT_DAY
DWA_RTL_SL_RETRN_SBC_MO
DWB_ACCRUAL_EVT
DWB_ACCT_BAL
DWB_ACCT_DEBT
DWB_ACCT_DEBT_HIST
DWB_ACCT_PYMT_PYMT_PLN_ASGN
DWB_ADDR_STAT_HIST
DWB_ADHOC_COLLCTN
DWB_AGRMNT_APRVL_ASGN
DWB_BSNS_INTRACN_HIST
DWB_CNSEQ_PRFMNC_NTFCTN
DWB_DISC_LI

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWB_EVT_EMP_ACTVTY
DWB_IMPRESSION
DWB_INV_ADJ_DOC_LI
DWB_INV_CNTRL_DOC
DWB_INV_CNTRL_DOC_LI
DWB_INVC_GENRTN_PRCS
DWB_LYLTY_MBRSHIP_ENRL
DWB_LYLTY_TIER_CHNG_HIST
DWB_MBRSHIP_ACCT_BAL_HIST
DWB_PHY_CNT_DOC
DWB_PHY_CNT_DOC_LI
DWB_PRBLM
DWB_PRBLM_CMNTS
DWB_PRBLM_LOC_ASGN
DWB_PRBLM_RLTN
DWB_PRBLM_RSCE_ASGN
DWB_PRBLM_SRVC_ASGN
DWB_PRBLM_TRKNG_REC_ASGN
DWB_PRCS_COST
DWB_PRCS_EVT
DWB_PRCS_INVC_DSPTCHG_EVT
DWB_PRCS_INVC_GNRTN_EVT
DWB_PRCS_INVC_ISSNG_EVT
DWB_PRCS_THRD
DWB_REDEM_EVT
DWB_RSCE_ALRM
DWB_RSCE_ALRM_CMNT
DWB_RSCE_ALRM_RLTN
DWB_RSCE_ALRM_RSCE_ASGN
DWB_RSCE_ALRM_TRKNG_REC_ASGN
DWB_RTL_SL_RTRN_LI
DWB_RTL_TNDR_LI
DWB_RTL_TRX
DWB_RTL_TRX_LN_ITEM
DWB_SESSION
DWB_SRVC_PRBLM
DWB_SRVC_PRBLM_RSCE_ALRM_ASGN

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWB_SRVC_PRBLM_SRVC_ASGN
DWB_TNDR_CNTRL_TRX
DWB_TRBLE_TCKT
DWB_TRBLE_TCKT_FLD_SPPRT_ASGN
DWB_TRBLE_TCKT_ITEM
DWB_TRKNG_REC
DWD_ACCT_FRST_ACTVTY
DWD_ACCT_LAST_ACTVTY
DWD_AGRMNT_RVN_DAY
DWD_CNT_DAY
DWD_CUST_DNA
DWD_CUST_ORDR_DAY
DWD_CUST_ORDR_LN_ITEM_DAY
DWD_CUST_RFMP_SCR
DWD_CUST_SKU_SL_RETRN_DAY
DWD_INV_ADJ_ITEM_DAY
DWD_INV_POSN_ITEM_DAY
DWD_INV_RCPT_ITEM_DAY
DWD_INV_UNAVL_ITEM_DAY
DWD_INV_VNDR_CMPLNC_DAY
DWD_INV_XFER_ITEM_DAY
DWD_INVC_AGNG_DAY
DWD_INVC_DAY
DWD_INVC_PRCS_DAY
DWD_LYLTY_MBR_PNT_DAY
DWD_ORG_BSNS_UNT_HRS_DAY
DWD_POS_TNDR_FLOW
DWD_RTL_SL_RETRN_ITEM_DAY
DWD_RVN_DAY
DWD_SRVC_PRBLM_DAY
DWD_TMF_KPI
DWL_ACTVTY_CTGRY
DWL_ACTVTY_CTGRY
DWL_ACTVTY_RSLT_TYP
DWL_ACTVTY_TYP
DWL_ACTVTY_TYP
DWL_ADDR_STAT

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWL_ADDR_VRFY_TYP
DWL_ADJ_TYP
DWL_AGE_GRP
DWL_AGRMNT_CHNG_RSN
DWL_ATHRZTN_MTHD
DWL_CARD_HLDR_VRFY_TYP
DWL_CARD_TYP
DWL_CMPND_RSCE_DTL_TYP
DWL_CMPNSATRY_RSN
DWL_CMPST_PROD_SPEC_TYP
DWL_CNTCT_MEDIUM
DWL_COLLCTN_TYP
DWL_COMPENSATORY_RSN
DWL_CPN_SCAN
DWL_CPN_TYP
DWL_CRTFCT_TYP
DWL_CUST_RLTN_TYP
DWL_CUST_STAT_RSN
DWL_DOMAIN_TYP
DWL_DSPSTN_TYP
DWL_ENRL_CHNL
DWL_ENRL_TYP
DWL_ENTRY_MTHD
DWL_ENV_TYP
DWL_EXP_BASIS_TYP
DWL_FUEL_SL_STAT
DWL_IMPRESSION_EVT_TYP
DWL_INVLMNT_RL
DWL_ITEM_LKUP_MTHD
DWL_LFCCL_TYP
DWL_LR_STAT
DWL_MEDIA_INTRFC_TYP
DWL_MRKR_TYP
DWL_NP_RQST_STATE_RSN
DWL_ORDR_LN_ITEM_STATE_TYP
DWL_ORDR_STATE_TYP
DWL_ORG_TYP

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWL_POS_IDNT_TYP
DWL_POS_TYP
DWL_PRCS_RLTN_TYP
DWL_PRCS_TYP
DWL_PREF_TYP
DWL_PROD_OFR_PRICE_RLTN_TYP
DWL_PROD_RLTN_TYP
DWL_PRSNL_ID_REQD_TYP
DWL_PRTY_PRFL_TYP
DWL_PRTY_RL_CTGRY
DWL_PRTY_RL_TYP
DWL_QOS_SRVC_SPEC_TYP
DWL_RELIGIOUS_AFFLTN
DWL_RFMP_MTHD
DWL_RSN_CTGRY
DWL_RTL_TRML_STAT
DWL_RTL_TRX_LI_TYP
DWL_RTL_TYP
DWL_SERVER_STAT
DWL_SESSION_TYP
DWL_SKU_TYP
DWL_SL_OR_RETRN_ACTN
DWL_SMNP
DWL_SRVC_PRBLM_CHAR_TYP
DWL_SRVC_SPEC_TYP
DWL_TIER_CARD_TYP
DWL_TNDR_CLASS
DWL_TRNK_GRP
DWL_TRNSFR_TYP
DWL_TRX_CTGRY
DWL_TRX_TYP
DWL_UDR_EVT_SPEC_TYP
DWL_USG_TYP
DWL_VISITOR_TYP
DWR_ACCSRS_INSTNC
DWR_ACCT_PYMT_PLN_ASGN
DWR_ACCT_TAX_EXMPT_ASGN

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWR_ADDR_PHONE
DWR_ADMINSTVE_AREA
DWR_AF_SRV
DWR_AF_SRVC
DWR_AGNT
DWR_AGRMNT_INTNT
DWR_AGRMNT_SRVCLVL_AGRMNT_RLTN
DWR_BSNS_INTRACN_ITEM_SPEC
DWR_BSNS_INTRACN_SPEC
DWR_CFGBL_PROSPCCHAR_PROSPCAGN
DWR_CLASS_BASEWTD_FAIRQUE_SRVC
DWR_CLNT_HOST
DWR_CLSSIFR_SRVC
DWR_CMPGN_MEDIA
DWR_CMPGN_MEDIA_SLNG_ITEM
DWR_CMPND_CNDITNNG_ELMNT
DWR_CMPND_RSCE_CMPND_DTL_ASGN
DWR_CMST_PRODOFR_PRC_CMNT_ASGN
DWR_CROSSD_THRSHLD
DWR_CSTM_QUENG_SRVC
DWR_CUST_ACCT
DWR_CUST_ADDR
DWR_CUST_AFFLTN
DWR_CUST_CLSTR
DWR_CUST_CLSTR
DWR_CUST_GRP_ITEM
DWR_CUST_PREF
DWR_CUST_RLTN
DWR_DFCT_RND_RBIN_SCHDLNG_SRVC
DWR_DIFFSERV_SRVC
DWR_DOMAIN
DWR_DRPPR_SRVC
DWR_EF_SRVC
DWR_EIGHT_ZERO_TWO_SRVC
DWR_EML_ADDR
DWR_EXCHNG_LOC
DWR_FAIR_QUENG_SRVC

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWR_HEAD_TAIL_DRPPR_SRVC
DWR_INSTLMNT_AGRMNT
DWR_INV_LOC
DWR_INVC_PRCS_ASGN
DWR_ITEM_CLASS
DWR_ITEM_CLSTR
DWR_ITEM_CMPNY
DWR_ITEM_DEPT
DWR_ITEM_DIV
DWR_ITEM_GRP
DWR_ITEM_SBC
DWR_IVR_MENU_CNTNT
DWR_LGICL_DVC_SPEC
DWR_LYLTY_PROG
DWR_LYLTY_TIER
DWR_LYLTY_TIER_CLASS
DWR_MBRSHIP_ACCT
DWR_MDIA_ITRFC_LGL_INTRFC_ASGN
DWR_MNITRD_CLASS_CRTRA
DWR_MNITRD_INSTNCS_CRTRA
DWR_MNITRD_OBJS_CRTRA
DWR_MRKR_POOL
DWR_MRKR_SRVC
DWR_MRKR_SRVC_MRKR_POOL_ASGN
DWR_MSRMNT_JB
DWR_MTR_PRFL
DWR_MTR_SRVC
DWR_MTR_SRVC_PRFL_ASGN
DWR_NTWK_FRWRDNG_SRVC
DWR_NTWK_ROUTE_SECTN
DWR_ORG
DWR_PDSPC_CHRVL_RESPC_CHRVL_AN
DWR_PG
DWR_PHS
DWR_PHY_RSCE_ADDR
DWR_PLCIR_SRVC
DWR_PLCY_CNDTN_TIME_PRD

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWR_PLCY_CNDTN_VNDR
DWR_PNT_BLCK
DWR_POS_DEPT
DWR_PRAMBL_MRKNG_DTLS_ASGN
DWR_PRAMBL_MRKR_SRVC
DWR_PRBLM_TRBLE_TCKT_ASGN
DWR_PRCE_EVT_PRODOFR_PRCE_ASGN
DWR_PRCS
DWR_PRCS_PRMTR_VAL
DWR_PRCS_RLTN
DWR_PRCS_SPEC
DWR_PRCS_SPEC_RLTN
DWR_PRDSPC_CHR_RSCESPC_CHR_AGN
DWR_PRIORITY_QUENG_SRVC
DWR_PROD_CHAR_VAL
DWR_PROD_PROD_CAPBLTY_VAL_ASGN
DWR_PROD_RLTN
DWR_PROD_SBRP_PRICE_RLTN
DWR_PROD_SPEC_HIST
DWR_PRODOFR_PRODOFR_PRICE_ASGN
DWR_PRSPCT_RSTRCT_INFO
DWR_PRTY_PRFL
DWR_PRTY_PRFL_CHAR_ASGN
DWR_PRTY_PRFL_TYP_CHAR_VAL
DWR_PRTY_RL_CTGRY_ASGN
DWR_PRTY_RL_PRFL_ASGN
DWR_PT_BLCK
DWR_PTS_EXPRY_BASIS
DWR_PV_MAC_ADDR_VAL
DWR_PVAR_1QCOS_VARBLE
DWR_PVAR_DN_VARBLE
DWR_PVAR_DSCP_VARBLE
DWR_PVAR_ETHER_TYP_VARBLE
DWR_PVAR_IP_PROTCL_VARBLE
DWR_PVAR_IPTOS_VARBLE
DWR_PVAR_IPV4_VARBLE
DWR_PVAR_IPV6_FLOW_ID_VARBLE

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWR_PVAR_IPV6_VARBLE
DWR_PVAR_IPVRSN_VARBLE
DWR_PVAR_MAC_VARBLE
DWR_PVAR_PRT_VARBLE
DWR_PVAR_VLAN_VARBLE
DWR_PYMT_PLN
DWR_QOS_SRVC_RLTN
DWR_QUE_SRVC
DWR_RED_DRPPR_SRVC
DWR_RED_SRVC_ELMNT
DWR_REFERRING_CTGRY
DWR_REFERRING_CTGRY_LVL
DWR_REFERRING_URL
DWR_RND_RBIN_SCHDLNG_SRVC
DWR_RPLCMT_SET
DWR_RSCE_INVLMNT_RL
DWR_RSCE_RL_PRTY_RL_DTLS
DWR_RSCE_SPEC_CHAR
DWR_RSCE_SPEC_CHAR_ASGN
DWR_RSCE_SPEC_CHAR_RLTN
DWR_RSCE_SPEC_CHAR_VAL
DWR_RSCE_SPEC_CHAR_VAL_ASGN
DWR_RSCE_SPEC_CHAR_VAL_RLTN
DWR_RTL_TCHPNT
DWR_SCHDLNG_SRVC
DWR_SCHDLNG_SRVC_ATMC
DWR_SCHDLNG_SRVC_CMPST
DWR_SEARCH
DWR_SERVER
DWR_SERVER_FARM
DWR_SHPR_SRVC
DWR_SITE_RL
DWR_SKU_ITEM
DWR_SMNP_OTHR_PRTY_NBR
DWR_SRSPC_CHRVL_RESPC_CHRVL_AN
DWR_SRVC_ADDR_LOC_ASGN
DWR_SRVC_CHAR_VAL

Table D–1 (Cont.) Physical Tables Added for Release 11.3.2

Table Name
DWR_SRVC_CHRVL_PROD_CHRVL_ASGN
DWR_SRVC_LVL_AGRMNT_RLTN
DWR_SRVC_PRBLM_CHAR
DWR_SRVC_PRBLM_CHAR_VAL
DWR_SRVC_SPEC_CHAR_VAL_RLTN
DWR_SRVC_SPEC_CHAR_VAL_USE
DWR_SRVC_SPEC_RLTN
DWR_SRVC_UTLZTN_DTL
DWR_SRVSPC_CHR_RSCESPC_CHR_AGN
DWR_STNDRD_MRKR_SRVC
DWR_STRCT_SCHDLNG_SRVC
DWR_STRT_SGMNT
DWR_TNDR
DWR_TOKN_BCKT
DWR_TOS_SRVC
DWR_TRFC_CNDITNNG_SRVC
DWR_TRFC_ID_SRVC
DWR_UDR_EVT_CHAR
DWR_UDR_EVT_SPEC_CHAR_VAL
DWR_UDR_EVT_SPEC_RLTN
DWR_UDR_EVT_SPEC_VRSN
DWR_WBSITE
DWR_WTD_FAIR_QUENG_SRVC
DWR_WTD_RND_RBIN_SCHDLNG_SRVC
TMP_DWD_CUST_RFMP_SCR_1
TMP_DWD_CUST_RFMP_SCR_2
TODEL_DWL_CDR_TYP

Table D–2 Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWL_PROD_RTNG_PLN_TYP	DWL_PROD_OFR_PRICE_TYP
DWB_ACCT_BAL_ADJ	TODEL_DWB_ACCT_BAL_ADJ
DWB_ACCT_BAL_BUCKET	TODEL_DWB_ACCT_BAL_BUCKET
DWB_ACCT_BAL_HIST	TODEL_DWB_ACCT_BAL_HIST
DWB_ACCT_BAL_TRNSFR	TODEL_DWB_ACCT_BAL_TRNSFR
DWB_ACCT_DEBT_WRT_OFF	TODEL_DWB_ACCT_DEBT_WRT_OFF
DWB_ACCT_PMP_PRTCPTN_HIST	DWB_ACCT_PROD_OFR_PRTCPTN_HIST

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWL_BSNS_INTRACN_STAT_TYP	DWL_INTRACN_STAT_TYP
DWB_ACCT_PYMT_BAL_IMPC	TODEL_DWB_ACCT_PYMT_BAL_IMPC
DWB_ACCT_RCHRG	TODEL_DWB_ACCT_RCHRG
DWB_ACCT_RFND	TODEL_DWB_ACCT_RFND
DWB_PRTY_INTRACN_THRD_SBRP_ASN	TODEL_DWB_PTYINTRCN_TRD_SRPAN
DWB_BNDLD_NTWK_EVT	TODEL_DWB_BNDLD_UDR_EVT
DWB_CNRT_APRVL	DWB_AGRMNT_APRVL
DWB_CNRT_STAT	DWB_AGRMNT_STAT
DWB_PRTY_INTRACN_THRD	TODEL_DWB_PRTY_INTRACN_THRD
DWL_PRTY_INTRACN_THRD_TYP	TODEL_DWL_PRTY_INTRCN_THRD_TYP
DWB_CNRT_TERM_VAL	DWB_AGRMNT_TERM
DWB_DEBT_COLLCTN	TODEL_DWB_DEBT_COLLCTN
DWB_DEBT_COLLCTN_ASGN_BTCH	TODEL_DWB_DEBT_COLLCTN_ASGN_ BTCH
DWB_CUST_FLD_INSTLTN	TODEL_DWB_CUST_FLD_INSTLTN
DWB_CUST_FLD_SPPRT	TODEL_DWB_CUST_FLD_SPPRT
DWB_DEBT_COLLCTN_ASGN	TODEL_DWB_DEBT_COLLCTN_ASGN
DWB_EQPMNT_INSTNC_STAT_HIST	DWB_RSCE_HIST
DWB_EVT_CHAT	TODEL_DWB_EVT_PRTY_INTACN_CHAT
DWB_EVT_CHAT_DTL	DWB_EVT_PRTY_INTRACN_CHAT_DTL
DWB_EVT_CNRT	DWB_EVT_AGRMNT
DWB_EVT_PROD_PKG	DWB_EVT_CMPST_PROD_SPEC
DWB_EVT_SBRP	DWB_EVT_PROD_SBRP_WRLS
DWB_EVT_WEB_RGSTRN	TODEL_DWB_EVTPRTY_IRCN_WEBRGTN
DWB_EVT_WEB_VST	TODEL_DWB_EVTPRTY_INTACN_WEBST
DWB_MNT_ALLWNC	DWB_UNIT_ALWNCE
DWB_NTWK_ELMNT_COST	DWB_RSCE_COST
DWB_NTWK_ELMNT_FLT_ASGN	DWB_RSCE_FLT_ASGN
DWB_NTWK_ELMNT_STATE_HIST	DWB_RSCE_STATE_HIST
DWB_NTWK_EVT	DWB_UDR_EVT
DWB_NTWK_EVT_ACCT_BAL_BKT_IMPC	TODEL_DWB_UDREVT_ACT_BALBTIMPC
DWB_NTWK_EVT_ACCT_BAL_IMPC	TODEL_DWB_UDREVT_ACCT_BAL_IMPC
DWB_NTWK_EVT_ASGN	DWB_UDR_EVT_ASGN
DWB_NTWK_FLT_SBRP_ASGN	DWB_SRVC_PRBLM_SBRP_ASGN
DWB_NTWK_FLT_STAT_HIST	DWB_PRBLM_STAT_HIST
DWB_PROD_COST	DWB_PROD_SPEC_COST
DWB_PROD_INSTNC_STAT_HIST	DWB_PROD_STAT_HIST

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWB_PROD_MGMT_HIST	DWB_PROD_SPEC_MGMT_HIST
DWB_PROD_MKT_PLN_COST	DWB_PROD_OFR_COST
DWB_PROD_STAT_HIST	DWB_PROD_SPEC_STAT_HIST
DWB_PRTY_AM_PMP_ASGN_HIST	DWB_PRTY_AM_PROD_OFR_ASGN_HIST
DWB_PRTY_AM_PMP_ASGN_STAT	DWB_PRTY_AM_PROD_OFR_ASGN_STAT
DWB_RESRE_ORDR	DWB_RSCE_ORDR
DWB_RESRE_ORDR_ITEM	DWB_RSCE_ORDR_LN_ITEM
DWB_RESRE_PRFMNC	DWB_RSCE_PRFMNC
DWB_RTD_NTWK_EVT	DWB_RTD_UDR_EVT
DWB_SBRP_STAT_HIST	DWB_PROD_SBRP_STAT_HIST
DWD_ACCT_DEBT_DAY	DWD_ACCT_DEBT_MO
DWD_CALL_CNTR_CALL_DAY	DWD_CNTCT_CNTR_DAY
DWD_CNRT	DWD_AGRMNT
DWD_CNRT_CHNG	DWD_AGRMNT_CHNG
DWD_COST_CUST	DWD_CUST_COST
DWD_COST_ORG	DWD_COST_CNTR
DWD_PRPD_ACCT_STTSTC	DWD_PRPD_ACCT_STTSTC_DAY
DWD_PYMT_AGNG_DAY	DWD_PYMT_DAY
DWD_SHOP_EFFNCY_DAY	DWD_STORE_EFFNCY_DAY
DWD_SL_CMPGN_SUMM_DAY	DWD_CMPGN_HIST_DAY
DWR_SRVC_LVL_SPECFTN	DWL_SRVC_LVL_SPECFTN
DWL_ACCT_SBRP_ASGN_RSN	DWL_ACCT_PROD_SBRP_ASGN_RSN
DWL_BSNS_INTRACN_CHTRSTC_TYP	DWL_BSNS_INTRACN_CHAR_TYP
DWL_BSNS_INTRACN_TYP	TODEL_DWL_BSNS_INTRACN_TYP
DWL_CMPND_ELMNT_SPEC	DWR_CMPND_RSCE_SPEC
DWL_CMPND_ELMNT_SPEC_ATMC	DWR_CMPND_RSCE_SPEC_ATMC
DWL_CMPND_ELMNT_SPEC_CMPST	DWR_CMPND_RSCE_SPEC_CMPST
DWL_CNRT_ASGN_RSN	DWL_AGRMNT_ASGN_RSN
DWL_CNRT_ASGN_TYP	DWL_AGRMNT_ASGN_TYP
DWL_CNRT_CHNG_INTTR_TYP	DWL_AGRMNT_CHNG_INTTR_TYP
DWL_CNRT_CHNG_TYP	DWL_AGRMNT_CHNG_TYP
DWL_CNRT_STAT_RSN	DWL_AGRMNT_STAT_RSN
DWL_CNRT_STAT_TYP	DWL_AGRMNT_STAT_TYP
DWL_CNRT_TERM_TYP	DWL_AGRMNT_TERM_TYP
DWL_CNRT_TYP	DWL_AGRMNT_TYP
DWL_CUST_FCNG_SRVC_SPEC	DWR_CUST_FCNG_SRVC_SPEC
DWL_CUST_FCNG_SRVC_SPEC_ATMC	DWR_CUST_FCNG_SRVC_SPEC_ATMC

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWL_CUST_FCNG_SRVC_SPEC_CMPST	DWR_CUST_FCNG_SRVC_SPEC_CMPST
DWL_EQPMNT_TYP	DWL_RSCE_SPEC_TYP
DWL_LGICL_ELMNT_SPEC	DWR_LGICL_RSCE_SPEC
DWL_LGICL_ELMNT_SPEC_ATMC	DWR_LGICL_RSCE_SPEC_ATMC
DWL_LGICL_ELMNT_SPEC_CMPST	DWR_LGICL_RSCE_SPEC_CMPST
DWL_NTWK_ELMNT_CTGRY	DWL_RSCE_SPEC_CTGRY
DWL_NTWK_ELMNT_RLTN_TYP	DWL_RSCE_RLTN_TYP
DWL_NTWK_ELMNT_STATE_RSN	DWL_RSCE_STATE_RSN
DWL_NTWK_ELMNT_STATE_TYP	DWL_RSCE_STATE_TYP
DWL_NTWK_ELMNT_USG_EVT_TYP	DWL_RSCE_USG_EVT_TYP
DWL_NTWK_EVT_CHTRSTC_TYP	DWL_UDR_EVT_CHAR_TYP
DWL_NTWK_EVT_STAT	DWL_UDR_EVT_STAT
DWR_LYLTY_PROG_CHNL	TODEL_DWR_LYLTY_PROG_CHNL
DWL_NTWK_EVT_TYP	DWL_UDR_EVT_TYP
DWL_NTWK_FLT_PRIORITY_TYP	DWL_PRBLM_ESCALATN_LVL
DWL_ORDR_STAT	TODEL_DWL_ORDR_STAT
DWL_PHY_ELMNT_SPEC	DWR_PHY_RSCE_SPEC
DWL_PHY_ELMNT_SPEC_ATMC	DWR_PHY_RSCE_SPEC_ATMC
DWL_PHY_ELMNT_SPEC_CMPST	DWR_PHY_RSCE_SPEC_CMPST
DWL_PIT_CHTRSTC_TYP	DWL_PIT_CHAR_TYP
DWL_PROD_ASGN_RSN	DWL_PROD_SPEC_ASGN_RSN
DWL_PROD_CHRG_TYP	DWL_PRICE_TYP
DWL_PROD_CHRG_TYP_RLTN_RSN	DWL_PRICE_TYPE_RLTN_RSN
DWL_PROD_CHRGNG_RSN	DWL_PRICE_RSN
DWL_PROD_CHTRSTC_TYP	DWL_PROD_CHAR_TYP
DWL_PROD_COVRG_AREA_TYP	DWL_PROD_SPEC_COVRG_AREA_TYP
DWL_PROD_CTGRY	DWL_PROD_SPEC_CTGRY
DWL_PROD_GRP	DWL_PROD_SPEC_GRP
DWL_PROD_GRP_TYP	DWL_PROD_SPEC_GRP_TYP
DWL_PROD_INSTNC_STAT_TYP	DWL_PROD_STAT_TYP
DWL_PRTY_RL	DWR_PRTY_RL
DWL_PRTY_RL_STAT	DWR_PRTY_RL_STAT
DWL_PROD_MGMT_RL	DWL_PROD_SPEC_MGMT_RL
DWL_PROD_MGMT_RSN	DWL_PROD_SPEC_MGMT_RSN
DWL_PROD_MKT_PLN_ASGN_TYP	DWL_PROD_OFR_ASGN_TYP
DWL_PROD_MKT_PLN_GRP_TYP	DWL_PROD_OFR_GRP_TYP
DWL_PROD_MKT_PLN_RLTN_TYP	DWL_PROD_OFR_RLTN_TYP

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWL_PROD_MKT_PLN_TYP	DWL_PROD_OFR_TYP
DWL_PROD_PKG_CHRG_TYP	DWL_CMPST_PROD_SPEC_CHRG_TYP
DWL_PROD_STAT_TYP	DWL_PROD_SPEC_STAT_TYP
DWL_PROD_TYP	DWL_PROD_SPEC_TYP
DWL_PRTY_CNRT_ASGN_RL	DWL_PRTY_AGRMNT_ASGN_RL
DWL_PRTY_CNRT_ASGN_TYP	DWL_PRTY_AGRMNT_ASGN_TYP
DWL_BLLG_CYCL	DWR_BLLG_CYCL
DWL_PRTY_SBRP_RL	DWL_PRTY_PROD_SBRP_RL
DWL_RESRE_FCNG_SRVC_SPEC	DWR_RSCE_FCNG_SRVC_SPEC
DWL_RESRE_FCNG_SRVC_SPEC_ATMC	DWR_RSCE_FCNG_SRVC_SPEC_ATMC
DWL_RESRE_FCNG_SRVC_SPEC_CMPST	DWR_RSCE_FCNG_SRVC_SPEC_CMPST
DWL_SBRP_ASGN_TYP	DWL_PROD_SBRP_ASGN_TYP
DWL_SBRP_EVT_TYP	DWL_PROD_SBRP_EVT_TYP
DWL_SBRP_STAT	DWL_PROD_SBRP_STAT
DWL_SBRP_STAT_CTGRY	DWL_PROD_SBRP_STAT_CTGRY
DWL_SBRP_STAT_RSN	DWL_PROD_SBRP_STAT_RSN
DWL_SBRP_STAT_TYP	DWL_PROD_SBRP_STAT_TYP
DWL_SBRP_TERM_TYP	DWL_PROD_SBRP_TERM_TYP
DWL_SBRP_TYP	DWL_PROD_SBRP_TYP
DWL_SIM_CARD_SBRP_RSN	DWL_SIM_CARD_PROD_SBRP_RSN
DWL_SRVC_PKG_SPEC	DWR_SRVC_PKG_SPEC
DWL_SRVC_PKG_SPEC	DWR_SRVC_PKG_SPEC
DWL_SRVC_PKG_SPEC_ATMC	DWR_SRVC_PKG_SPEC_ATMC
DWL_SRVC_PKG_SPEC_CMPST	DWR_SRVC_PKG_SPEC_CMPST
DWL_TAX_EXMPT	DWR_TAX_EXMPT
DWL_TIME_BND	DWR_TIME_BND
DWR_ACCS_MTHD_SBRP_ASGN	DWR_ACCS_MTHD_PROD_SBRP_ASGN
DWR_ACCT_CNRT_RLTN	DWR_ACCT_AGRMNT_RLTN
DWR_ACCT_PRTY_PMP_RLTN	DWR_ACCT_PRTY_PROD_OFR_RLTN
DWR_ACCT_SBRP_ASGN	DWR_ACCT_PROD_SBRP_ASGN
DWR_BSNS_INTRACN_CHTRSTC	DWR_BSNS_INTRACN_CHAR
DWR_BSNS_INTRACN_CHTRSTC_VAL	DWR_BSNS_INTRACN_CHAR_VAL
DWR_BSNS_INTRACN_VRSN	DWB_BSNS_INTRACN_VRSN
DWR_CMPGN_CHTRSTC	DWR_CMPGN_CHAR
DWR_CMPGN_CHTRSTC_VAL	DWR_CMPGN_CHAR_VAL
DWR_CMPND_ELMNT	DWR_CMPND_RSCE
DWR_CMPND_ELMNT_CMPND_DTL	TODEL_DWR_CMPND_RSCE_CMPND_DTL

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWR_CMPND_ELMNT_COLLCTN	DWR_CMPND_RSCE_COLLCTN
DWR_CMPND_ELMNT_DTL	DWR_CMPND_RSCE_DTL
DWR_CMPND_ELMNT_LGICL_DTL	TODEL_DWR_CMPND_RSCE_LGICL_DTL
DWR_CMPND_ELMNT_PHY_DTL	TODEL_DWR_CMPND_RSCE_PHY_DTL
DWR_CMPND_ELMNT_RL	DWR_CMPND_RSCE_RL
DWR_CMPND_ELMNT_RL_ASGN	DWR_CMPND_RSCE_RL_ASGN
DWR_CMPND_ELMNT_RL_SPEC	DWR_CMPND_RSCE_RL_SPEC
DWR_CMPND_ELMNT_TP_DTL	DWR_CMPND_RSCE_TP_DTL
DWR_CMPND_ELMNT_UNIT	DWR_CMPND_RSCE_UNIT
DWR_CMPNT_SBRP_PRICE	DWR_PROD_PRICE_CMPNT
DWR_CMPST_COMP_PROD_CRL_CHTRTC	DWR_CMPST_COMP_PROD_CRL_CHAR
DWR_CMPST_PROD_RTNG_PLN	DWR_PROD_OFR_PRICE_CMPST
DWR_CMPST_PROD_RTNG_PLN_ASGN	DWR_PROD_OFR_PRICE_RLTN
DWR_CMPST_SBRP_PRICE	TODEL_DWR_PROD_PRICE_CMPST
DWR_CNRT	DWR_AGRMNT
DWR_CNRT_ASGN	DWR_AGRMNT_ASGN
DWR_CNRT_DOC	DWR_AGRMNT_DOC
DWR_CNRT_ITEM	DWR_AGRMNT_ITEM
DWR_CNRT_PROD_ASGN	DWR_AGRMNT_PROD_SPEC_ASGN
DWR_COMP_INTL_CHTRSTC	DWR_COMP_INTL_CHAR
DWR_COMP_INTL_CHTRSTC_VAL	DWR_COMP_INTL_CHAR_VAL
DWR_COMP_PROD_CRRL_CHRSTC_RLTN	DWR_COMP_PROD_CRRL_CHAR_RLTN
DWR_COMP_PROD_CRRL_CHTRSTC	DWR_COMP_PROD_CRRL_CHAR
DWB_BSNS_INTRACN_STAT_HIST	TODEL_DWB_BSNSINTRCN_STAT_HIST
DWR_COMP_PROD_CRRL_CHTRSTC_VAL	DWR_COMP_PROD_CRRL_CHAR_VAL
DWR_COMP_PROD_CRRL_CHTRTC_ASGN	DWR_COMP_PROD_CRRL_CHAR_ASGN
DWR_DEMOG_CHTRSTC	DWR_DEMOG_CHAR
DWR_DEMOG_CHTRSTC_VAL	DWR_DEMOG_CHAR_VAL
DWR_ELMNT_CHTRSTC	DWR_RSCE_CHAR
DWR_ELMNT_CHTRSTC_ASGN	DWR_RSCE_CHAR_ASGN
DWR_ELMNT_CHTRSTC_RLTN	DWR_RSCE_CHAR_RLTN
DWR_ELMNT_CHTRSTC_VAL	DWR_RSCE_CHAR_VAL
DWR_ELMNT_CHTRSTC_VAL_ASGN	DWR_RSCE_CHAR_VAL_ASGN
DWR_ELMNT_CHTRSTC_VAL_RLTN	DWR_RSCE_CHAR_VAL_RLTN
DWR_EQPMNT_INSTNC_RNTNG_CNRT	DWR_EQPMNT_RNTNG_AGRMNT
DWR_EQPMNT_SBRP	DWR_PHY_RSCE_PROD_SBRP
DWR_EVT_RSLTN	DWL_EVT_RSLTN

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWR_FXBLE_CHTRSTC	DWR_FXBLE_CHAR
DWR_FXBLE_CHTRSTC_ASGN	DWR_FXBLE_CHAR_ASGN
DWR_FXBLE_CHTRSTC_ASGN_TYP	DWL_FXBLE_CHAR_ASGN_TYP
DWR_FXBLE_CHTRSTC_RLTN	DWR_FXBLE_CHAR_RLTN
DWR_FXBLE_CHTRSTC_TYP	DWL_FXBLE_CHAR_TYP
DWR_FXBLE_CHTRSTC_VAL	DWR_FXBLE_CHAR_VAL
DWR_FXBLE_CHTRSTC_VAL_ASGN	DWR_FXBLE_CHAR_VAL_ASGN
DWR_FXBLE_CHTRSTC_VAL_RLTN	DWR_FXBLE_CHAR_VAL_RLTN
DWR_GL_PROD_SGMNT	DWR_GL_PROD_SPEC_SGMNT
DWR_ITEM	DWR_ITEM_SPEC
DWR_LGICL_ELMNT	DWR_LGICL_RSCE
DWR_LGICL_ELMNT_PHY_SPPRT	DWR_LGICL_RSCE_PHY_SPPRT
DWR_LGICL_ELMNT_RL	DWR_LGICL_RSCE_RL
DWR_LGICL_ELMNT_RL_ASGN	DWR_LGICL_RSCE_RL_ASGN
DWR_LGICL_ELMNT_RL_SPEC	DWR_LGICL_RSCE_RL_SPEC
DWR_LGICL_ELMNT_SPEC_PHY_SPPRT	DWR_LGICL_RSCE_SPEC_PHY_SPPRT
DWR_LGICL_ELMNT_TYP_VRSN	DWR_LGICL_RSCE_SPEC_VRSN
DWR_LGICL_ELMNT	DWR_LGICL_RSCE
DWR_MKT_PLN_DOC_REQRMNT	DWR_PROD_OFR_DOC_REQRMNT
DWR_MKT_PLN_SUB_BY_DOC	DWR_PROD_OFR_SUB_BY_DOC
DWR_MKT_PLN_TERM_VAL	DWR_PROD_OFR_TERM
DWR_MKT_SGMNT_CHTRSTC	DWR_MKT_SGMNT_CHAR
DWR_MKT_SGMNT_CHTRSTC_VAL	DWR_MKT_SGMNT_CHAR_VAL
DWR_NTWK_ELMNT	DWR_RSCE
DWR_NTWK_ELMNT_BSNS_INTRACN_RL	DWR_RSCE_BSNS_INTRACN_RL
DWR_NTWK_ELMNT_PRTY_ASSOCTN	DWR_RSCE_PRTY_ASSOCTN
DWR_NTWK_ELMNT_PRTY_MGMT	DWR_RSCE_PRTY_MGMT
DWR_NTWK_ELMNT_RL	DWR_RSCE_RL
DWR_NTWK_ELMNT_RL_ASGN	DWR_RSCE_RL_ASGN
DWR_NTWK_ELMNT_RL_PRTY_ASGN	DWR_RSCE_RL_PRTY_ASGN
DWR_NTWK_ELMNT_RL_SPEC	DWR_RSCE_RL_SPEC
DWR_NTWK_ELMNT_RLTN	DWR_RSCE_RLTN
DWR_NTWK_ELMNT_TYP	DWR_RSCE_SPEC
DWR_NTWK_ELMNT_TYP_VRSN	DWR_RSCE_SPEC_VRSN
DWR_NTWK_ELMNT_TYP_VRSN_USG	DWR_RSCE_SPEC_VRSN_USG
DWR_NTWK_EVT_CHTRSTC	DWR_UDR_EVT_SPEC_CHAR
DWR_NTWK_EVT_CHTRSTC_ASGN	DWR_UDR_EVT_SPEC_CHAR_USE

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWR_NTWK_EVT_CHTRSTC_RLTN	DWR_UDR_EVT_CHAR_RLTN
DWR_NTWK_EVT_CHTRSTC_VAL	DWR_UDR_EVT_CHAR_VAL
DWR_NTWK_EVT_CHTRSTC_VAL_ASGN	DWR_UDR_EVT_SPEC_CHAR_VAL_USE
DWR_NTWK_EVT_CHTRSTC_VAL_RLTN	DWR_UDR_EVT_SPEC_CHAR_VAL_RLTN
DWR_NTWK_EVT_TYP_VRSN	DWR_UDR_EVT_TYP_VRSN
DWR_ORDR_LN_ITEM_STATE	DWL_ORDR_LN_ITEM_STATE
DWR_PHY_ELMNT	DWR_PHY_RSCE
DWR_PHY_ELMNT_CHTRSTC	DWR_PHY_RSCE_CHAR
DWR_PHY_ELMNT_RL	DWR_PHY_RSCE_RL
DWR_PHY_ELMNT_RL_ASGN	DWR_PHY_RSCE_RL_ASGN
DWR_PRTY_LYLTY_PROG_PRTCPTN	TODEL_DWR_PRTYLYLY_PROG_PRCPTN
DWB_LYLTY_PROG_PTS_BAL	TODEL_DWB_LYLTY_PROG_PTS_BAL
DWD_LYLTY_PROG_DAY	TODEL_DWD_LYLTY_PROG_DAY
DWL_LYLTY_PROG_EVT_CTGRY	TODEL_DWL_LYLTY_PROG_EVT_CTGRY
DWL_LYLTY_PROG_EVT_TYP	TODEL_DWL_LYLTY_PROG_EVT_TYP
DWL_LYLTY_PROG_PRTY_RL	TODEL_DWL_LYLTY_PROG_PRTY_RL
DWL_LYLTY_PROG_TMNT_RSN	TODEL_DWL_LYLTY_PROG_TMNT_RSN
DWR_LYLTY_PROG	TODEL_DWR_LYLTY_PROG
DWR_PHY_ELMNT_RL_SPEC	DWR_PHY_RSCE_RL_SPEC
DWR_PHY_PRT_RESRE_PRT_ASGN	DWR_PHY_PRT_RSCE_PRT_ASGN
DWR_PHY_RESRE_RL_SPEC_DTL	DWR_PHY_RSCE_RL_SPEC_DTL
DWR_PIT_CHTRSTC	DWR_PIT_CHAR
DWR_PIT_CHTRSTC_VAL	DWR_EVT_PRTY_INTRACN_CHAR_VAL
DWR_PMP_AVLBLTY	DWR_PROD_OFR_AVLBLTY
DWR_PMP_LYLTY_PROG_AVLBLTY	TODEL_DWR_PRDOFR_LYLY_PRGABLTY
DWR_PMP_MKT_SGMNT_AVLBLTY	DWR_PROD_OFR_MKT_SGMNT_AVLBLTY
DWR_PMP_ORG_AVLBLTY	DWR_PROD_OFR_ORG_AVLBLTY
DWR_PMP_PRICE_PLCY_ACTN	DWR_PROD_OFR_PRICE_PLCY_ACTN
DWR_PMP_PRICE_PLCY_CNDTN	DWR_PROD_OFR_PRICE_PLCY_CNDTN
DWR_PMP_PRICE_PLCY_VAL	DWR_PROD_OFR_PRICE_PLCY_VAL
DWR_PMP_PRICE_PLCY_VARBLE	DWR_PROD_OFR_PRICE_PLCY_VAR
DWR_PMP_PROD_INSTNC_ASGN	DWR_PROD_OFR_PROD_ASGN
DWR_PRFMNC_CAT_CHTRSTC_VAL	DWR_PRFMNC_CAT_CHAR_VAL
DWR_PRFMNC_CHTRSTC_VAL	DWR_PRFMNC_CHAR_VAL
DWR_PRMTN_PROD_ASGN	DWR_PRMTN_PROD_OFR_ASGN
DWR_PROD	DWR_PROD_SPEC
DWR_PROD_ADTNL_TXT	DWR_PROD_SPEC_ADTNL_TXT

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWR_PROD_ASGN	DWR_PROD_SPEC_RLTN
DWR_PROD_CHRG_TYP_RLTN	DWR_PRICE_TYP_RLTN
DWR_PROD_CHTRSTC	DWR_PROD_SPEC_CHAR
DWR_PROD_CHTRSTC_ASGN	DWR_PROD_SPEC_CHAR_USE
DWR_PROD_CHTRSTC_RLTN	DWR_PROD_SPEC_CHAR_RLTN
DWR_PROD_CHTRSTC_VAL	DWR_PROD_SPEC_CHAR_VAL
DWR_PROD_CHTRSTC_VAL_ASGN	DWR_PROD_SPEC_CHAR_VAL_USE
DWR_PROD_CHTRSTC_VAL_RLTN	DWR_PROD_SPEC_CHAR_VAL_RLTN
DWR_PROD_CTLG_CHTRSTC	DWR_PROD_CTLG_CHAR
DWR_PROD_CTLG_CHTRSTC_ASGN	DWR_PROD_CTLG_CHAR_ASGN
DWR_PROD_CTLG_CHTRSTC_RLTN	DWR_PROD_CTLG_CHAR_RLTN
DWR_PROD_CTLG_CHTRSTC_VAL	DWR_PROD_CTLG_CHAR_VAL
DWR_PROD_CTLG_CHTRSTC_VAL_ASGN	DWR_PROD_CTLG_CHAR_VAL_ASGN
DWR_PROD_CTLG_CHTRSTC_VAL_RLTN	DWR_PROD_CTLG_CHAR_VAL_RLTN
DWR_PROD_CTLG_MKT_PLN_ASGN	DWR_PROD_CTLG_PROD_OFR_ASGN
DWR_PROD_FTR	DWR_CFGBL_PROD_SPEC_CHAR
DWR_PROD_FTR_ASGN	DWR_PROD_SPEC_CHAR_CFG_ASGN
DWR_PROD_GRP_ASGN	DWR_PROD_SPEC_GRP_ASGN
DWR_PROD_INSTNC	DWR_PROD
DWR_PROD_MKT_PLN	DWR_PROD_OFR
DWR_PROD_MKT_PLN_ASGN	DWR_PROD_OFR_PROD_SPEC_ASGN
DWR_PROD_MKT_PLN_GEO_ASGN	DWR_PROD_OFR_GEO_ASGN
DWR_PROD_MKT_PLN_GRP	DWR_PROD_OFR_GRP
DWR_PROD_MKT_PLN_GRP_ASGN	DWR_PROD_OFR_GRP_ASGN
DWR_PROD_MKT_PLN_RLTN	DWR_PROD_OFR_RLTN
DWR_PROD_NTWK_ASGN	DWR_PROD_SPEC_NTWK_ASGN
DWR_PROD_PKG	DWR_CMPST_PROD_SPEC
DWR_PROD_PKG_ASGN	DWR_CMPST_PROD_SPEC_ASGN
DWR_PROD_RTNG_PLN	DWR_PROD_OFR_PRICE
DWR_PROD_RTNG_PLN_DTL	DWR_PROD_OFR_PRICE_CMPNT
DWR_PROD_VRSN	DWR_PROD_SPEC_VRSN
DWR_PRPD_VCHR	DWR_PRPD_VCHR_SPEC
DWR_PRPD_VCHR_INSTNC	DWR_PRPD_VCHR
DWR_PRTY_CNRT_ASGN	DWR_PRTY_AGRMNT_ASGN
DWR_PRTY_PRFL_CHTRSTC	DWR_PRTY_PRFL_CHAR
DWR_PRTY_PRFL_CHTRSTC	DWR_PRTY_PRFL_CHAR
DWR_PRTY_PRFL_CHTRSTC_VAL	DWR_PRTY_PRFL_CHAR_VAL

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWR_PRTY_SBRP_ASGN	DWR_PRTY_PROD_SBRP_ASGN
DWR_RCRNG_PMP_RTNG_PLN_DTL	DWR_PROD_OFR_PRICE_RCRNG
DWR_RESRE_FCNG_SRVC	DWR_RSCE_FCNG_SRVC
DWR_RESRE_FCNG_SRVC_SPEC_RL	DWR_RSCE_FCNG_SRVC_SPEC_RL
DWR_RESRE_FCNG_SRVC_SPEC_VRSN	DWR_RSCE_FCNG_SRVC_SPEC_VRSN
DWR_RESRE_PRFMNC_SPEC	DWR_RSCE_PRFMNC_SPEC
DWR_RESRE_PRT	DWR_RSCE_PRT
DWR_RESRE_SPEC_PERF_RL	DWR_RSCE_SPEC_PERF_RL
DWR_SBRP	DWR_PROD_SBRP
DWR_SBRP_ASGN	DWR_PROD_SBRP_ASGN
DWR_SBRP_NTWK_ELMNT_RL_ASGN	DWR_SBRP_RSCE_RL_ASGN
DWR_SBRP_PMP_ASGN	DWR_PROD_SBRP_PRODOFRPRIE_ASGN
DWR_SBRP_PRICE	DWR_PROD_SBRP_PRICE
DWR_SBRP_PRICE_ALTRTN	DWR_PROD_PRICE_ALTRTN
DWR_SBRP_PRICE_CHRG	TODEL_DWR_PROD_PRICE_CHRG
DWR_SBRP_PRICE_PRTY_RL_ASGN	DWR_PROD_PRICE_PRTY_RL
DWR_SIM_CARD_SBRP_ASGN	DWR_SIM_CARD_PROD_SBRP_ASGN
DWR_SRVC_CHTRSTC	DWR_SRVC_SPEC_CHAR
DWR_SRVC_CHTRSTC_RLTN	DWR_SRVC_SPEC_CHAR_RLTN
DWR_SRVC_CHTRSTC_VAL	DWR_SRVC_SPEC_CHAR_VAL
DWR_SRVC_CHTRSTC_VAL_ASGN	DWR_SRVC_SPEC_CHAR_VAL_ASGN
DWR_SRVC_CHTRSTC_VAL_RLTN	DWR_SRVC_CHAR_VAL_RLTN
DWR_SRVC_NTWK_ELMNT_ASGN	DWR_SRVC_RSCE_ASGN
DWR_SRVC_SPEC_PROD_RLTN	DWR_SRVC_SPEC_PROD_SPEC_RLTN
DWR_SRVC_SPECFTN_RL	DWR_SRVC_SPEC_RL
DWR_SVCSPEC_NTWK_ELETYP_RLTN	DWR_SRVC_SPEC_RSCE_SPEC_RLTN
DWR_TRGT_CNRT	DWR_TRGT_AGRMNT
DWR_VNDR_CNRT	DWR_VNDR_AGRMNT
DWR_WRLS_NTWK_ELMNT	DWR_WRLS_RSCE
DWR_SBRP_CLASS_OF_SRVC	TODEL_DWR_SBRP_CLASS_OF_SRVC
DWR_ACCT_PREF_PYMT_MTHD	DWR_ACCT_PYMT_MTHD
DWL_DRCT_DEBT_STAT_RSN	DWL_DRCT_DEBIT_STAT_RSN
DWR_BNK_DRCT_DEBT_CHNL	DWR_BNK_DRCT_DEBIT_CHNL
DWR_PRFMNC_CAT_SPECFTN	DWR_PRFMNC_CAT_SPEC
DWR_PRFMNC_IND_SPECFTN	DWR_PRFMNC_IND_SPEC
DWR_ENT_SPECFTN	DWR_ENT_SPEC
DWR_SPECFTN_RL	DWR_SPEC_RL

Table D–2 (Cont.) Physical Tables Renamed for Release 11.3.1 to Release 11.3.2

Table Name (Release 11.3.1)	Table Name (Release 11.3.2)
DWL_SRVC_LVL_SPECFTN	DWL_SRVC_LVL_SPEC
DWR_SPECFTN	DWR_SPEC
DWR_PRFMNC_SPECFTN	DWR_PRFMNC_SPEC
DWR_PRFMNC_NTFCTN_SPECFTN	DWR_PRFMNC_NTFCTN_SPEC
DWR_PRFMNC_SPECFTN_INTRVL	DWR_PRFMNC_SPEC_INTRVL
DWR_SRVC_CHTRSTC_ASGN	DWR_SRVC_SPEC_CHAR_USE
DWB_PRFMNC_PNT_CD	DWR_PRFMNC_PNT_CD
DWR_CNSEQ_PRFMNC_NTFCTN	DWB_CNSEQ_PRFMNC_NTFCTN
DWB_EVT_PRTY_INTRACN_CALL	TODEL_DWB_EVT_PRTY_INTACN_CALL
DWB_PRFMNC_IP_ADDR	DWR_PRFMNC_IP_ADDR
DWR_SRVC_LVL_SPEC_APLBLETY	DWR_SRVC_LVL_SPEC_APLCBLTY
DWR_PRMTN_MKT_PLN_ASGN	DWR_PRMTN_PROD_OFR_ASGN
DWB_MKT_PLN_MGMT	DWB_PROD_OFR_MGMT
DWB_PRFMNC_NTWK_ADDR	DWR_PRFMNC_NTWK_ADDR
DWR_PRPD_WRLS	TODEL_DWR_PRPD_WRLS
DWR_PSTPD_WRLS	TODEL_DWR_PSTPD_WRLS
DWB_EVT_PRTY_INTRACN_LTTR	TODEL_DWB_EVT_PRTY_INTACN_LTTR
DWB_EVT_PRTY_INTRACN_VST	TODEL_DWB_EVT_PRTY_INTACN_VST
DWR_PMP_RTNG_PLN	DWR_PROD_OFR_RTNG_PLN
DWR_PMP_RTNG_PLN_DTL	DWR_PROD_OFR_RTNG_PLN_DTL
DWB_ADDR_STAT	DWB_ADDR_STAT_HIST
DWB_EVT_PRTY_INTRACN_EML	TODEL_DWB_EVT_PRTY_INTRACN_EML
DWL_CHRN_RSN	TODEL_DWL_CHRN_RSN
DWB_EVT_GFT_RDMPTN	TODEL_DWB_EVT_GFT_RDMPTN
DWB_EVT_INVC_DLVRY	TODEL_DWB_EVT_INVC_DLVRY
DWL_IVR_MENU_ITEM	DWR_IVR_MENU_ITEM
TODEL_DWL_CUST_CLSTR_TYP	DWL_CUST_CLSTR_TYP

Table D–3 Physical Tables Dropped for Release 11.3.1 to Release 11.3.2

Dropped Tables from Release 11.3.1 to Release 11.3.2
DWB_EVT_LYLTY_PROG_ACMLTN
DWB_EVT_LYLTY_PROG_RDMPTN
DWB_INSTLMNT_CNRT
DWB_NTWK_FLT
DWB_NTWK_FLT_SRVC_ASGN
DWD_ACCT_RFND_DAY
DWD_ACCT_STAT

Table D–3 (Cont.) Physical Tables Dropped for Release 11.3.1 to Release 11.3.2

Dropped Tables from Release 11.3.1 to Release 11.3.2
DWD_ACCT_STTSTC
DWD_ARPU_BASE
DWD_CALL_CNTR_CASE_DAY
DWD_CNCT_DSCNCT_DAY
DWD_CNRT
DWD_CNRT_CHNG
DWD_CRDT_CTGRY
DWD_CUST_ACQSTN_SUMM_DAY
DWD_CUST_CALL_SCL_NTWK
DWD_CUST_CMMNTY_STTSTC_MO
DWD_CUST_COMMUNITY_ASGN
DWD_CUST_DEBT_COLLCTN
DWD_EXTRNL_DEBT_COLLCTN_DAY
DWD_GPRS_PCU_DAY
DWD_GPRS_SRVCS_DAY
DWD_HNDST_STCK_DAY
DWD_HNDST_SUBSDY_DAY
DWD_INTRNL_DEBT_COLLCTN_DAY
DWD_INVC
DWD_INVC_ADJ
DWD_LN_ACTVTN_TMNT_DAY
DWD_MKT_OPRTR_PRTNG
DWD_PRPD_ACCT_ACTVTN_DAY
DWD_PRPD_CALL_SUMM_DAY
DWD_PRPD_VCHR_RCHRG
DWD_PRPD_VCHR_RCHRG_DAY
DWD_RDMPTN_DAY
DWD_SBRP_STTSTC
DWD_SHARED_PKG_USG_STTSTC_DAY
DWD_SL_DAY
DWD_SUBSDY_AMT
DWR_ADDR_LCTN_NAME
DWR_ADDR_LCTN_NAME
DWR_CMPND_RSCE_CMPND_DTL
DWR_CMPND_RSCE_LGICL_DTL
DWR_CMPND_RSCE_PHY_DTL
DWR_PRMTN_PROD_OFR_ASGN

Oracle Communications Data Model LDM Release 11.3.1 to Release 11.3.2

This section includes the following tables:

- Table D–4, " Logical Entities Added for Release 11.3.2"
- Table D–5, " Logical Entities Renamed for Release 11.3.2"
- Table D–6, " Logical Entities Renamed (__TODEL) for Release 11.3.2"
- Table D–7, " Logical Entities Removed for Release 11.3.2"

Table D–4 Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
802 SERVICE
ACCESSORIES INSTANCE
ACCOUNT BALANCE
ACCOUNT DEBT
ACCOUNT DEBT HISTORY
ACCOUNT DEBT MONTH DERIVED
ACCOUNT FIRST ACTIVITY DERIVED
ACCOUNT LAST ACTIVITY DERIVED
ACCOUNT PAYMENT PAYMENT PLAN ASSIGNMENT
ACCOUNT PAYMENT PLAN ASSIGNMENT
ACCOUNT STATISTIC MONTH AGGR
ACCOUNT TAX EXEMPT ASSIGNMENT
ACCRUAL EVENT
ACTIVITY CATEGORY
ACTIVITY RELATIONSHIP TYPE
ACTIVITY RESULT TYPE
ACTIVITY TYPE
ADDRESS LOCATION ADMIN AREA ASSIGNMENT
ADDRESS PHONE
ADDRESS STATUS
ADDRESS VERIFICATION TYPE
ADHOC COLLECTION
ADJUSTMENT TYPE
ADMINISTRATIVE AREA
AF SERVICE
AGE GROUP
AGENT
AGREEMENT ACCOUNT SUBSCRIPTION PRODUCT AGGR
AGREEMENT APPROVAL ASSIGNMENT
AGREEMENT CHANGE REASON
AGREEMENT INTENT
AGREEMENT REVENUE DAY DRVD
AGREEMENT SLA RELATIONSHIP
AUTHORIZATION METHOD

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
BUSINESS INTERACTION HISTORY
BUSINESS INTERACTION ITEM SPECIFICATION
BUSINESS INTERACTION SPECIFICATION
CALL CENTER CALL MONTH AGGR
CALL CENTER CASE MONTH AGGR
CAMPAIGN MEDIA
CAMPAIGN MEDIA SELLING ITEM
CARD HOLDER VERIFICATION TYPE
CARD TYPE
CELL
CERTIFICATE TYPE
CHURN SVM FACTOR
CHURN SVM ROC
CLASS BASE WEIGHTED FAIR QUEUE SERVICE
CLASSIFIER SERVICE
CLIENT
CLIENT HOST
CLIENT VERSION
COLLECTION TYPE
COMPENSATORY REASON
COMPOSITE PROD OFFER PRICE COMPONENT ASSIGNMENT
COMPOSITE PRODUCT SPECIFICATION TYPE
COMPOUND CONDITIONING ELEMENT
COMPOUND RESOURCE COMPOUND DETAIL ASSIGNMENT
COMPOUND RESOURCE DETAIL TYPE
COMPOUND RESOURCE ROLE SPEC
CONTACT MEDIUM
COST CENTER MONTH AGGR
COUNT DAY DRVD
COUNT MONTH AGGR
COUPON SCAN
COUPON TYPE
CROSSED THRESHOLD
CUSTOM QUEUING SERVICE
CUSTOMER ACCOUNT
CUSTOMER ADDRESS
CUSTOMER AFFILIATION
CUSTOMER CHURN MONTH AGGR
CUSTOMER CLUSTER
CUSTOMER CLUSTER TYPE
CUSTOMER COMMENT
CUSTOMER DEBT COLLECTION MONTH AGGR

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
CUSTOMER DECISION TREE NODE
CUSTOMER DNA DRVD
CUSTOMER GROUP ITEM
CUSTOMER ORDER DAY DERIVED
CUSTOMER ORDER LINE ITEM DAY DERIVED
CUSTOMER PREFERENCE
CUSTOMER PRODUCT AFFILIATION
CUSTOMER RELATIONSHIP
CUSTOMER RELATIONSHIP TYPE
CUSTOMER RFMP SCORE
CUSTOMER SEGMENT DETAIL
CUSTOMER SENTIMENT MANUAL SCORE
CUSTOMER SKU SALES RETURN DAY DRVD
CUSTOMER STATUS REASON
DEFICIT ROUND ROBIN SCHEDULING SERVICE
DIFFSERV SERVICE
DISCOUNT LINE ITEM
DISPOSITION TYPE
DOMAIN
DOMAIN TYPE
DROPPER SERVICE
EF SERVICE
EMAIL ADDRESS
ENROLL CHANNEL
ENROLL TYPE
ENTRY METHOD
ENVIRONMENT TYPE
EQUIPMENT INSTANCE STATUS TYPE
ETHERNET INTERFACE
EVENT AGREEMENT
EVENT EMPLOYEE ACTIVITY
EXCHANGE LOCATION
EXPIRY BASIS TYPE
FAIR QUEUING SERVICE
FUEL SALE STATUS
HEAD TAIL DROPPER SERVICE
IMPRESSION
IMPRESSION EVENT TYPE
INTERACTION STATUS TYPE
INVENTORY ADJUSTMENT DOCUMENT LINE ITEM
INVENTORY ADJUSTMENT ITEM DAY DRVD
INVENTORY CONTROL DOCUMENT

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
INVENTORY CONTROL DOCUMENT LINE ITEM
INVENTORY LOCATION
INVENTORY POSITION DEPARTMENT DAY AGGR
INVENTORY POSITION ITEM DAY DRVD
INVENTORY POSITION SUBCLASS MONTH AGGR
INVENTORY RECEIPT ITEM DAY DRVD
INVENTORY TRANSFER ITEM DAY DRVD
INVENTORY UNAVAILABLE ITEM DAY DRVD
INVENTORY VENDOR COMPLIANCE DAY DRVD
INVOICE AGING DAY DRVD
INVOICE GENERATION PROCESS
INVOICE PROCESS ASSIGNMENT
INVOICE STATUS
INVOLVEMENT ROLE
ITEM CLASS
ITEM CLUSTER
ITEM COMPANY
ITEM DEPARTMENT
ITEM DIVISION
ITEM GROUP
ITEM LOOKUP METHOD
ITEM SUBCLASS
ITEM TYPE
IVR MENU CONTENT
JURISDICTION
LAND USE TYPE
LIFECYCLE TYPE
LOGICAL DEVICE SPECIFICATION
LOGICAL RESOURCE SPEC VERSION
LOOPBACK INTERFACE
LOYALTY MEMBER POINT DAY DRVD
LOYALTY MEMBERSHIP ENROLL
LOYALTY TIER
LOYALTY TIER CHANGE HISTORY
LOYALTY TIER CLASS
LR STATUS
MAILBOX
MANAGEMENT INFORMATION
MARKER POOL
MARKER SERVICE
MARKER SERVICE MARKER POOL ASSIGNMENT
MARKER TYPE

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
MEASUREMENT JOB
MEDIA INTERFACE LOGICAL INTERFACE ASSIGNMENT
MEDIA INTERFACE TYPE
MEMBERSHIP ACCOUNT
MEMBERSHIP ACCOUNT BALANCE HISTORY
METER PROFILE
METER SERVICE
METER SERVICE PROFILE ASSIGNMENT
MINING CHURN TYPE
MINING LIFE TIME SURVIVAL VALUE BAND
MINING LIFE TIME VALUE BAND
MINING SENTIMENT CATEGORY
MONITORED CLASS CRITERIA
MONITORED INSTANCES CRITERIA
MONITORED OBJECTS CRITERIA
NETWORK FORWARDING SERVICE
NETWORK ROUTE SECTION
NP REQUEST STATE REASON
ORDER LINE ITEM STATE TYPE
ORDER STATE TYPE
ORGANIZATION
ORGANIZATION BUSINESS UNIT HOURS DAY DRVD
ORGANIZATION TYPE
PAGE
PARTY AM PRODUCT OFFERING ASSIGNMENT STATUS
PARTY PROFILE
PARTY PROFILE CHAR ASSIGNMENT
PARTY PROFILE TYPE
PARTY ROLE CATEGORY
PARTY ROLE CATEGORY ASSIGNMENT
PARTY ROLE PROFILE ASSIGNMENT
PARTY ROLE TYPE
PAYMENT PLAN
PERFORMANCE INDICATOR GROUP
PERFORMANCE INDICATOR GROUP SPEC
PERSONAL ID REQUIRED TYPE
PHASE
PHYSICAL COUNT DOCUMENT
PHYSICAL COUNT DOCUMENT LINE ITEM
PHYSICAL RESOURCE ADDRESS
PLATFORM
POINT BLOCK

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
POINT OF SALE DEPARTMENT
POINT OF SALE IDENTITY TYPE
POINT OF SALE TENDER FLOW DRVD
POINT OF SALE TYPE
POINTS EXPIRY BASIS
POLICIER SERVICE
POLICY CONDITION TIME PERIOD
POLICY CONDITION VENDOR
PREAMBLE MARKER SERVICE
PREAMBLE MARKING DETAILS ASSIGNMENT
PREFERENCE TYPE
PRICE REASON
PRIORITY QUEUING SERVICE
PROBLEM
PROBLEM COMMENTS
PROBLEM LOCATION ASSIGNMENT
PROBLEM RELATIONSHIP
PROBLEM RESOURCE ASSIGNMENT
PROBLEM SERVICE ASSIGNMENT
PROBLEM TRACKING RECORD ASSIGNMENT
PROBLEM TROUBLE TICKET ASSIGNMENT
PROCESS
PROCESS COST
PROCESS EVENT
PROCESS EVENT ASSIGNMENT
PROCESS EVENT PARAMETER VALUE OPERATOR ASSIGNMENT
PROCESS EVENT PRODUCT OFFER PRICE ASSIGNMENT
PROCESS INVOICE DAY DRVD
PROCESS INVOICE DISPATCHING EVENT
PROCESS INVOICE GENERATION EVENT
PROCESS INVOICE ISSUING EVENT
PROCESS PARAMETER
PROCESS PARAMETER ASSIGNMENT
PROCESS PARAMETER OPERATOR
PROCESS PARAMETER VALUE
PROCESS RELATIONSHIP
PROCESS RELATIONSHIP TYPE
PROCESS SPECIFICATION
PROCESS SPECIFICATION RELATIONSHIP
PROCESS STATUS
PROCESS TYPE
PRODUCT CHARACTERISTIC TYPE

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
PRODUCT CHARACTERISTIC VALUE
PRODUCT COVERAGE GEOGRAPHY DETAIL
PRODUCT GEOGRAPHY ASSIGNMENT
PRODUCT OFFERING PRICE COMPONENT
PRODUCT OFFERING PRICE COMPOSITE
PRODUCT OFFERING PRICE RECURRING
PRODUCT OFFERING PRICE RELATIONSHIP TYPE
PRODUCT OFFERING PRODUCT OFFERING PRICE ASSIGNMENT
PRODUCT OFFERING RATING PLAN
PRODUCT OFFERING RATING PLAN DETAIL
PRODUCT PRODUCT CAPABILITY VALUE ASSIGNMENT
PRODUCT RELATIONSHIP
PRODUCT RELATIONSHIP TYPE
PRODUCT SPEC CHAR RESOURCE SPEC CHAR ASSIGNMENT
PRODUCT SPEC CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT
PRODUCT SPECIFICATION CHARACTERISTIC CONFIGURABLE ASSIGNMENT
PRODUCT SUBSCRIPTION PRICE RELATIONSHIP
PRODUCT SUBSCRIPTION PRODUCT OFFERING PRICE ASSIGNMENT
PRODUCT SUBSCRIPTION STATUS TYPE
PROMOTION SVM FACTOR
PROMOTION SVM ROC
PROSPECT RESTRICTED INFORMATION
PV MAC ADDRESS VALUE
PVAR 1QCOS VARIABLE
PVAR DN VARIABLE
PVAR DSCP VARIABLE
PVAR ETHER TYPE VARIABLE
PVAR IP PROTOCOL VARIABLE
PVAR IPTOS VARIABLE
PVAR IPV4 VARIABLE
PVAR IPV6 FLOW VARIABLE
PVAR IPV6 VARIABLE
PVAR IPVERSION VARIABLE
PVAR MAC VARIABLE
PVAR PORT VARIABLE
PVAR VLAN VARIABLE
QOS SERVICE RELATIONSHIP
QUEUE SERVICE
REASON
REASON CATEGORY
RED DROPPER SERVICE
RED SERVICE ELEMENT

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
REDEMPTION EVENT
REFERRING CATEGORY
REFERRING CATEGORY LEVEL
REFERRING SITE
REFERRING URL
RELATION TYPE
RELIGIOUS AFFILIATION
REPLACEMENT SET
RESOURCE ALARM
RESOURCE ALARM COMMENT
RESOURCE ALARM RELATIONSHIP
RESOURCE ALARM RESOURCE ASSIGNMENT
RESOURCE ALARM TRACKING RECORD ASSIGNMENT
RESOURCE INVOLVEMENT ROLE
RESOURCE ROLE PARTY ROLE DETAILS
RESOURCE SPECIFICATION CHARACTERISTIC
RESOURCE SPECIFICATION CHARACTERISTIC ASSIGNMENT
RESOURCE SPECIFICATION CHARACTERISTIC RELATIONSHIP
RESOURCE SPECIFICATION CHARACTERISTIC VALUE
RESOURCE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT
RESOURCE SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
RESOURCE SPECIFICATION TYPE
RESOURCE SPECIFICATION VERSION
RESOURCE SPECIFICATION VERSION USAGE
RETAIL SALES RETURN ITEM DAY DRVD
RETAIL SALES RETURN LINE ITEM
RETAIL TENDER LINE ITEM
RETAIL TERMINAL STATUS
RETAIL TOUCHPOINT
RETAIL TRANSACTION
RETAIL TRANSACTION LINE ITEM
RETAIL TRANSACTION LINE ITEM TYPE
RETAIL TYPE
REVENUE DAY DRVD
REVENUE MONTH AGGR
RFMP METHOD
ROOT ENTITY TYPE
ROUND ROBIN SCHEDULING SERVICE
ROUTING DEVICE
SALE OR RETURN ACTION
SCHEDULING SERVICE
SCHEDULING SERVICE ATOMIC

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
SCHEDULING SERVICE COMPOSITE
SEARCH
SERVER
SERVER FARM
SERVER STATUS
SERVICE ADDRESS LOCATION ASSIGNMENT
SERVICE CHARACTERISTIC VALUE
SERVICE CHARACTERISTIC VALUE PRODUCT CHARACTERISTIC VALUE ASSIGNMENT
SERVICE CHARACTERISTIC VALUE RELATIONSHIP
SERVICE LEVEL AGREEMENT RELATIONSHIP
SERVICE PARTY MANAGEMENT HISTORY
SERVICE PROBLEM
SERVICE PROBLEM CHAR TYPE
SERVICE PROBLEM CHARACTERISTIC
SERVICE PROBLEM CHARACTERISTIC VALUE
SERVICE PROBLEM DAY DRVD
SERVICE PROBLEM RESOURCE ALARM ASSIGNMENT
SERVICE SPECIFICATION CHAR RESOURCE SPEC CHAR ASSIGNMENT
SERVICE SPECIFICATION CHAR VAL RESOURCE SPEC CHAR VAL ASSIGNMENT
SERVICE SPECIFICATION CHARACTERISTIC VALUE ASSIGNMENT
SERVICE SPECIFICATION RELATIONSHIP
SERVICE SPECIFICATION TYPE
SERVICE UTILIZATION DETAIL
SESSION
SESSION TYPE
SETTING ATTRIBUTE IMPORTANCE
SETTING CHURN DECISION TREE
SETTING CHURN DECISION TREE COST
SETTING CHURN SVM
SETTING CHURN SVM PRIORS
SETTING LIFE TIME VALUE SVM
SETTING PROFILE KMEANS
SETTING SENTIMENT SVM
SETTING USER ALL
SHAPER SERVICE
SITE ROLE
SKU ITEM
SKU TYPE
SPNM
SPNM OTHER PARTY NUMBER
STANDARD MARKER SERVICE
STREET NAME

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
STREET SEGMENT
STREET SEGMENT ADDRESS ASSIGNMENT
STRICT SCHEDULING SERVICE
SUPPLEMENTARY SERVICE
SUPPLEMENTARY SERVICE USAGE MONTH AGGR
SYMBOLOGY
TENDER
TENDER CLASS
TENDER CONTROL TRANSACTION
TIER CARD TYPE
TIME TOTAL
TMF KPI DRVD
TOKEN BUCKET
TOS SERVICE
TRACKING RECORD
TRAFFIC CONDITIONING SERVICE
TRAFFIC IDENTIFICATION SERVICE
TRAFFIC MATCH CRITERIA
TRANSACTION CATEGORY
TRANSACTION TYPE
TRANSFER TYPE
TROUBLE TICKET
TROUBLE TICKET FIELD SUPPORT ASSIGNMENT
TROUBLE TICKET ITEM
TRUNK GROUP
UDR EVENT CHARACTERISTIC VALUE
UDR EVENT SPECIFICATION
UDR EVENT SPECIFICATION CHARACTERISTIC
UDR EVENT SPECIFICATION CHARACTERISTIC RELATIONSHIP
UDR EVENT SPECIFICATION CHARACTERISTIC USE
UDR EVENT SPECIFICATION CHARACTERISTIC VALUE
UDR EVENT SPECIFICATION RELATIONSHIP
UDR EVENT SPECIFICATION TYPE
UDR EVENT SPECIFICATION VERSION
USAGE TYPE
VISITOR
VISITOR TYPE
WEBSITE
WEBSITE USER
WEIGHTED FAIR QUEUING SERVICE
WEIGHTED ROUND ROBIN SCHEDULING SERVICE
__TODEL_CLIENT TYPE

Table D–4 (Cont.) Logical Entities Added for Release 11.3.2

Entity Name (Release 11.3.2)
__TODEL_NETWORK EVENT
__TODEL_NULL INTERFACE
__TODEL_PAGE CATEGORY
__TODEL_PAGE CATEGORY LEVEL
__TODEL_POLICY TYPE
__TODEL_PROPERTY ADDRESS ASSIGNMENT
__TODEL_SEARCH CATEGORY
__TODEL_SEARCH CATEGORY LEVEL
__TODEL_SERIAL INTERFACE
__TODEL_SERVER STATUS HISTORY
__TODEL_STATUS
__TODEL_SYMBOLOGY
__TODEL_TOKEN RING INTERFACE
__TODEL_UDR EVENT CHAR VALUE RELATIONSHIP
__TODEL_WEBSITE RESOURCE
__TODEL_WEBSITE RESOURCE TYPE

Table D–5 Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
__TODEL_MARKET SHARE AGGR	MARKET SHARE AGGR
__TODEL_MARKET SHARE DRVD	MARKET SHARE DRVD
__TODEL_SUPPLEMENTARY SERVICE USAGE DRVD	SUPPLEMENTARY SERVICE USAGE DRVD
ACCESS METHOD SUBSCRIPTION ASSIGNMENT	ACCESS METHOD PRODUCT SUBSCRIPTION ASSIGNMENT
ACCOUNT CONTRACT RELATIONSHIP	ACCOUNT AGREEMENT RELATIONSHIP
ACCOUNT PARTY PMP RELATIONSHIP	ACCOUNT PARTY PRODUCT OFFERING RELATIONSHIP
ACCOUNT PMP PARTICIPATION HISTORY	ACCOUNT PRODUCT OFFERING PARTICIPATION HISTORY
ACCOUNT PREFERRED PAYMENT METHOD	ACCOUNT PAYMENT METHOD
ACCOUNT SUBSCRIPTION ASSIGNMENT	ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT
ACCOUNT SUBSCRIPTION ASSIGNMENT REASON	ACCOUNT PRODUCT SUBSCRIPTION ASSIGNMENT REASON
ADDRESS STATUS	ADDRESS STATUS HISTORY
CALL CENTER CALL DAY DRVD	CONTACT CENTER DAY DERIVED
COMMISSION DAY DRVD	COMMISSION DRVD
COMPONENT SUBSCRIPTION PRICE	PRODUCT PRICE COMPONENT
COMPOSITE PRODUCT RATING PLAN ASSIGNMENT	PRODUCT OFFERING PRICE RELATIONSHIP
COMPOSITE SUBSCRIPTION PRICE	COMPOSITE PRODUCT SUBSCRIPTION PRICE
COMPOUND ELEMENT	COMPOUND RESOURCE
COMPOUND ELEMENT COLLECTION	COMPOUND RESOURCE COLLECTION
COMPOUND ELEMENT DETAIL	COMPOUND RESOURCE DETAIL
COMPOUND ELEMENT ROLE	COMPOUND RESOURCE ROLE

Table D–5 (Cont.) Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
COMPOUND ELEMENT ROLE ASSIGNMENT	COMPOUND RESOURCE ROLE ASSIGNMENT
COMPOUND ELEMENT SPEC	COMPOUND RESOURCE SPEC
COMPOUND ELEMENT SPEC ATOMIC	COMPOUND RESOURCE SPEC ATOMIC
COMPOUND ELEMENT SPEC COMPOSITE	COMPOUND RESOURCE SPEC COMPOSITE
COMPOUND ELEMENT TP DETAIL	COMPOUND RESOURCE TP DETAIL
COMPOUND ELEMENT UNIT	COMPOUND RESOURCE UNIT
CONTRACT	AGREEMENT
CONTRACT APPROVAL	AGREEMENT APPROVAL
CONTRACT ASSIGNMENT	AGREEMENT ASSIGNMENT
CONTRACT ASSIGNMENT REASON	AGREEMENT ASSIGNMENT REASON
CONTRACT ASSIGNMENT TYPE	AGREEMENT ASSIGNMENT TYPE
CONTRACT CHANGE INITIATOR TYPE	AGREEMENT CHANGE INITIATOR TYPE
CONTRACT CHANGE TYPE	AGREEMENT CHANGE TYPE
CONTRACT CHANGED DRVD	AGREEMENT CHANGED DRVD
CONTRACT DOCUMENT	AGREEMENT DOCUMENT
CONTRACT DRVD	AGREEMENT DRVD
CONTRACT ITEM	AGREEMENT ITEM
CONTRACT PRODUCT ASSIGNMENT	AGREEMENT PRODUCT SPEC ASSIGNMENT
CONTRACT STATUS	AGREEMENT STATUS
CONTRACT STATUS REASON	AGREEMENT STATUS REASON
CONTRACT STATUS TYPE	AGREEMENT STATUS TYPE
CONTRACT TERM TYPE	AGREEMENT TERM TYPE
CONTRACT TERM VALUE	AGREEMENT TERM
CONTRACT TYPE	AGREEMENT TYPE
COST CUSTOMER DRVD	CUSTOMER COST DRVD
COST CUSTOMER MONTH AGGR	CUSTOMER COST MONTH AGGR
COST ORGANIZATIONAL DRVD	COST CENTER DERIVED
CUSTOMER CLASS ASSIGNMENT	CUSTOMER CLASS ASSIGNMENT
CUSTOMER FACING SERVICE SPEC	CUSTOMER FACING SERVICE SPECIFICATION
CUSTOMER FACING SERVICE SPEC ATOMIC	CUSTOMER FACING SERVICE SPECIFICATION ATOMIC
CUSTOMER FACING SERVICE SPEC COMPOSITE	CUSTOMER FACING SERVICE SPECIFICATION COMPOSITE
CUSTOMER FACING SERVICE SPEC ROLE	CUSTOMER FACING SERVICE SPECIFICATION ROLE
CUSTOMER FACING SERVICE SPEC VERSION	CUSTOMER FACING SERVICE SPECIFICATION VERSION
CUSTOMER GROSS ORDER QUARTER	CUSTOMER GROSS ORDER QUARTERLY
CUSTOMER ORDER MONTH	CUSTOMER ORDER MONTH AGGR
ELEMENT CHARACTERISTIC	RESOURCE CHARACTERISTIC
ELEMENT CHARACTERISTIC ASSIGNMENT	RESOURCE CHARACTERISTIC ASSIGNMENT
ELEMENT CHARACTERISTIC RELATIONSHIP	RESOURCE CHARACTERISTIC RELATIONSHIP
ELEMENT CHARACTERISTIC VALUE	RESOURCE CHARACTERISTIC VALUE
ELEMENT CHARACTERISTIC VALUE ASSIGNMENT	RESOURCE CHARACTERISTIC VALUE ASSIGNMENT
ELEMENT CHARACTERISTIC VALUE RELATIONSHIP	RESOURCE CHARACTERISTIC VALUE RELATIONSHIP

Table D–5 (Cont.) Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
EQUIPMENT INSTANCE RENTING CONTRACT	EQUIPMENT RENTING AGREEMENT
EQUIPMENT INSTANCE STATUS HISTORY	RESOURCE HISTORY
EQUIPMENT SUBSCRIPTION	PHYSICAL RESOURCE PRODUCT SUBSCRIPTION
EVENT CHAT DETAIL	EVENT PARTY INTERACTION CHAT DETAIL
EVENT PRODUCT PACKAGE	EVENT COMPOSITE PRODUCT SPECIFICATION
EVENT SUBSCRIPTION	EVENT PRODUCT SUBSCRIPTION WIRELESS
GL PRODUCT SEGMENT	GL PRODUCT SPECIFICATION SEGMENT
INSTALLMENT CONTRACT	INSTALLMENT AGREEMENT
INTERACTION NAVIGATNION TYPE	INTERACTION NAVIGATION TYPE
INTERACTION NAVIGATNION TYPE VERSION	INTERACTION NAVIGATION TYPE VERSION
INVOICE CUSTOMER TYPE AGGR	INVOICE MONTH AGGR
ITEM	ITEM SPECIFICATION
LOGICAL ELEMENT	LOGICAL RESOURCE
LOGICAL ELEMENT PHYSICAL SUPPORT	LOGICAL RESOURCE PHYSICAL SUPPORT
LOGICAL ELEMENT ROLE	LOGICAL RESOURCE ROLE
LOGICAL ELEMENT ROLE ASSIGNMENT	LOGICAL RESOURCE ROLE ASSIGNMENT
LOGICAL ELEMENT ROLE SPEC	LOGICAL RESOURCE ROLE SPECIFICATION
LOGICAL ELEMENT SPEC	LOGICAL RESOURCE SPECIFICATION
LOGICAL ELEMENT SPEC ATOMIC	LOGICAL RESOURCE SPEC ATOMIC
LOGICAL ELEMENT SPEC COMPOSITE	LOGICAL RESOURCE SPEC COMPOSITE
LOGICAL ELEMENT SPEC PHYSICAL SUPPORT	LOGICAL RESOURCE SPEC PHYSICAL SUPPORT
LOGICAL ELEMENT TYPE VERSION	LOGICAL RESOURCE TYPE VERSION
MARKET PLAN DOCUMENT REQUIREMENT	PRODUCT OFFERING DOCUMENT REQUIREMENT
MARKET PLAN MANAGEMENT	PRODUCT OFFERING MANAGEMENT
MARKET PLAN SUBSTITUTE BY DOC	PRODUCT OFFERING SUBSTITUTE BY DOC
MARKET PLAN TERM VALUE	PRODUCT OFFERING TERM
NETWORK ELEMENT	RESOURCE
NETWORK ELEMENT BUSINESS INTERACTION ROLE	RESOURCE BUSINESS INTERACTION ROLE
NETWORK ELEMENT CATEGORY	RESOURCE SPECIFICATION CATEGORY
NETWORK ELEMENT COST	RESOURCE COST
NETWORK ELEMENT FAULT ASSIGNMENT	RESOURCE FAULT ASSIGNMENT
NETWORK ELEMENT PARTY ASSOCIATION	RESOURCE PARTY ASSOCIATION
NETWORK ELEMENT PARTY MANAGEMENT	RESOURCE PARTY MANAGEMENT
NETWORK ELEMENT RELATIONSHIP	RESOURCE RELATIONSHIP
NETWORK ELEMENT RELATIONSHIP TYPE	RESOURCE RELATIONSHIP TYPE
NETWORK ELEMENT ROLE	RESOURCE ROLE
NETWORK ELEMENT ROLE ASSIGNMENT	RESOURCE ROLE ASSIGNMENT
NETWORK ELEMENT ROLE PARTY ASSIGNMENT	RESOURCE ROLE PARTY ASSIGNMENT
NETWORK ELEMENT ROLE SPEC	RESOURCE ROLE SPECIFICATION
NETWORK ELEMENT STATE HISTORY	RESOURCE STATE HISTORY
NETWORK ELEMENT STATE REASON	RESOURCE STATE REASON
NETWORK ELEMENT STATE TYPE	RESOURCE STATE TYPE

Table D–5 (Cont.) Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
NETWORK ELEMENT TYPE	RESOURCE SPECIFICATION
NETWORK ELEMENT USAGE EVENT TYPE	RESOURCE USAGE EVENT TYPE
NETWORK EVENT	UDR EVENT
NETWORK EVENT ASSIGNMENT	UDR EVENT ASSIGNMENT
NETWORK EVENT CHARACTERISTIC	UDR EVENT CHARACTERISTIC
NETWORK EVENT CHARACTERISTIC RELATIONSHIP	UDR EVENT CHARACTERISTIC RELATIONSHIP
NETWORK EVENT CHARACTERISTIC TYPE	UDR EVENT CHARACTERISTIC TYPE
NETWORK EVENT CHARACTERISTIC VALUE ASSIGNMENT	UDR EVENT SPECIFICATION CHARACTERISTIC VALUE USE
NETWORK EVENT CHARACTERISTIC VALUE RELATIONSHIP	UDR EVENT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
NETWORK EVENT STATUS	UDR EVENT STATUS
NETWORK EVENT TYPE	UDR EVENT TYPE
NETWORK EVENT TYPE VERSION	UDR EVENT TYPE VERSION
NETWORK FAULT PRIORITY TYPE	PROBLEM ESCALATION LEVEL
NETWORK FAULT SERVICE ASSIGNMENT	SERVICE PROBLEM SERVICE ASSIGNMENT
NETWORK FAULT STATUS HISTORY	PROBLEM STATUS HISTORY
NETWORK FAULT SUBSCRIPTION ASSIGNMENT	SERVICE PROBLEM SUBSCRIPTION ASSIGNMENT
PARTY AM PMP ASSIGNMENT HISTORY	PARTY AM PRODUCT OFFERING ASSIGNMENT HISTORY
PARTY CONTRACT ASSIGNMENT	PARTY AGREEMENT ASSIGNMENT
PARTY CONTRACT ASSIGNMENT ROLE	PARTY AGREEMENT ASSIGNMENT ROLE
PARTY CONTRACT ASSIGNMENT TYPE	PARTY AGREEMENT ASSIGNMENT TYPE
PARTY DEMOGRAPHY VALUE	PARTY DEMOGRAPHIC VALUE
PARTY PROFILE CHARACTERISTIC	PARTY PROFILE TYPE CHARACTERISTIC
PARTY PROFILE CHARACTERISTIC VALUE	PARTY PROFILE TYPE CHARACTERISTIC VALUE
PARTY SUBSCRIPTION ASSIGNMENT	PARTY PRODUCT SUBSCRIPTION ASSIGNMENT
PARTY SUBSCRIPTION ROLE	PARTY PRODUCT SUBSCRIPTION ROLE
PCU OUTAGE REASON	PACKET CONTROL UNIT OUTAGE REASON
PERFORMANCE NOTIFICATION SPECIFICATION	PERFORMANCE NOTIFICATION SPECIFICATION
PHYSICAL ELEMENT	PHYSICAL RESOURCE
PHYSICAL ELEMENT CHARACTERISTIC	PHYSICAL RESOURCE CHARACTERISTIC
PHYSICAL ELEMENT ROLE	PHYSICAL RESOURCE ROLE
PHYSICAL ELEMENT ROLE ASSIGNMENT	PHYSICAL RESOURCE ROLE ASSIGNMENT
PHYSICAL ELEMENT ROLE SPEC	PHYSICAL RESOURCE ROLE SPECIFICATION
PHYSICAL ELEMENT SPEC	PHYSICAL RESOURCE SPECIFICATION
PHYSICAL ELEMENT SPEC ATOMIC	PHYSICAL RESOURCE SPECIFICATION ATOMIC
PHYSICAL ELEMENT SPEC COMPOSITE	PHYSICAL RESOURCE SPECIFICATION COMPOSITE
PHYSICAL RESOURCE ROLE SPEC DETAIL	PHYSICAL RESOURCE ROLE SPECIFICATION DETAIL
PIT CHARACTERISTIC VALUE	EVENT PARTY INTERACTION CHARACTERISTIC VALUE
PMP AVAILABILITY	PRODUCT OFFERING AVAILABILITY
PMP MARKET SEGMENT AVAILABILITY	PRODUCT OFFERING MARKET SEGMENT AVAILABILITY
PMP ORGANIZATION AVAILABILITY	PRODUCT OFFERING ORGANIZATION AVAILABILITY

Table D–5 (Cont.) Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
PMP PRICE POLICY ACTION	PRODUCT OFFERING PRICE POLICY ACTION
PMP PRICE POLICY CONDITION	PRODUCT OFFERING PRICE POLICY CONDITION
PMP PRICE POLICY VALUE	PRODUCT OFFERING PRICE POLICY VALUE
PMP PRICE POLICY VARIABLE	PRODUCT OFFERING PRICE POLICY VARIABLE
PMP PRODUCT INSTANCE ASSIGNMENT	PRODUCT OFFERING PRODUCT ASSIGNMENT
PREPAID VOUCHER	PREPAID VOUCHER SPECIFICATION
PREPAID VOUCHER INSTANCE	PREPAID VOUCHER
PREPAID VOUCHER RECHARGE DAY DRVD	PREPAID ALLOWANCE DAY DRVD
PRODUCT	PRODUCT SPECIFICATION
PRODUCT ADDITIONAL TEXT	PRODUCT SPECIFICATION ADDITIONAL TEXT
PRODUCT ASSIGNMENT	PRODUCT SPECIFICATION RELATIONSHIP
PRODUCT ASSIGNMENT REASON	PRODUCT SPECIFICATION ASSIGNMENT REASON
PRODUCT CATALOG MARKET PLAN ASSIGNMENT	PRODUCT CATALOG PRODUCT OFFERING ASSIGNMENT
PRODUCT CATEGORY	PRODUCT SPECIFICATION CATEGORY
PRODUCT CHARACTERISTIC	PRODUCT SPECIFICATION CHARACTERISTIC
PRODUCT CHARACTERISTIC ASSIGNMENT	PRODUCT SPECIFICATION CHARACTERISTIC USE
PRODUCT CHARACTERISTIC RELATIONSHIP	PRODUCT SPECIFICATION CHARACTERISTIC RELATIONSHIP
PRODUCT CHARACTERISTIC VALUE	PRODUCT SPECIFICATION CHARACTERISTIC VALUE
PRODUCT CHARACTERISTIC VALUE ASSIGNMENT	PRODUCT SPECIFICATION CHARACTERISTIC VALUE USE
PRODUCT CHARACTERISTIC VALUE RELATIONSHIP	PRODUCT SPECIFICATION CHARACTERISTIC VALUE RELATIONSHIP
PRODUCT CHARGE TYPE	PRICE TYPE
PRODUCT CHARGE TYPE RELATIONSHIP	PRICE TYPE RELATIONSHIP
PRODUCT CHARGE TYPE RLTN REASON	PRICE TYPE RELATION REASON
PRODUCT COLUMN	PRODUCT SPECIFICATION COLUMN
PRODUCT COST	PRODUCT SPECIFICATION COST
PRODUCT COVERAGE AREA TYPE	PRODUCT SPECIFICATION COVERAGE AREA TYPE
PRODUCT COVERAGE GEO DETAIL	PRODUCT SPECIFICATION COVERAGE GEO DETAIL
PRODUCT FEATURE	CONFIGURABLE PRODUCT SPECIFICATION CHARACTERISTIC
PRODUCT FEATURE ASSIGNMENT	CONFIGURABLE PRODSPECCHAR PRODSPEC ASSIGNMENT
PRODUCT GROUP	PRODUCT SPECIFICATION GROUP
PRODUCT GROUP ASSIGNMENT	PRODUCT SPECIFICATION GROUP ASSIGNMENT
PRODUCT GROUP TYPE	PRODUCT SPECIFICATION GROUP TYPE
PRODUCT HISTORY	PRODUCT SPECIFICATION HISTORY
PRODUCT INSTANCE	PRODUCT
PRODUCT INSTANCE STATUS HISTORY	PRODUCT STATUS HISTORY
PRODUCT INSTANCE STATUS TYPE	PRODUCT STATUS TYPE
PRODUCT MANAGEMENT HISTORY	PRODUCT SPECIFICATION MANAGEMENT HISTORY
PRODUCT MANAGEMENT REASON	PRODUCT SPECIFICATION MANAGEMENT REASON
PRODUCT MANAGEMENT ROLE	PRODUCT SPECIFICATION MANAGEMENT ROLE
PRODUCT MARKET PLAN	PRODUCT OFFERING

Table D–5 (Cont.) Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
PRODUCT MARKET PLAN ASSIGNMENT	PRODUCT OFFERING PRODUCT SPECIFICATION ASSIGNMENT
PRODUCT MARKET PLAN ASSIGNMENT TYPE	PRODUCT OFFERING ASSIGNMENT TYPE
PRODUCT MARKET PLAN COST	PRODUCT OFFERING COST
PRODUCT MARKET PLAN GEOGRAPHY ASSIGNMENT	PRODUCT OFFERING GEOGRAPHY ASSIGNMENT
PRODUCT MARKET PLAN GROUP	PRODUCT OFFERING GROUP
PRODUCT MARKET PLAN GROUP ASSIGNMENT	PRODUCT OFFERING GROUP ASSIGNMENT
PRODUCT MARKET PLAN GROUP TYPE	PRODUCT OFFERING GROUP TYPE
PRODUCT MARKET PLAN RELATIONSHIP	PRODUCT OFFERING RELATIONSHIP
PRODUCT MARKET PLAN RELATIONSHIP TYPE	PRODUCT OFFERING RELATIONSHIP TYPE
PRODUCT MARKET PLAN TYPE	PRODUCT OFFERING TYPE
PRODUCT NETWORK ASSIGNMENT	PRODUCT SPECIFICATION NETWORK ASSIGNMENT
PRODUCT PACKAGE	COMPOSITE PRODUCT SPECIFICATION
PRODUCT PACKAGE ASSIGNMENT	COMPOSITE PRODUCT SPECIFICATION ASSIGNMENT
PRODUCT PACKAGE CHARGE TYPE	COMPOSITE PRODUCT SPECIFICATION CHARGE TYPE
PRODUCT RATING PLAN	PRODUCT OFFERING PRICE
PRODUCT RATING PLAN TYPE	PRODUCT OFFERING PRICE TYPE
PRODUCT STATUS HISTORY	PRODUCT SPECIFICATION STATUS HISTORY
PRODUCT STATUS TYPE	PRODUCT SPECIFICATION STATUS TYPE
PRODUCT TYPE	PRODUCT SPECIFICATION TYPE
PRODUCT VERSION	PRODUCT SPECIFICATION VERSION
PROMOTION MARKET PLAN ASSIGNMENT	PROMOTION PRODUCT OFFERING ASSIGNMENT
RATED NETWORK EVENT	RATED UDR EVENT
RESOURCE FACING SERVICE SPEC	RESOURCE FACING SERVICE SPECIFICATION
RESOURCE FACING SERVICE SPEC ATOMIC	RESOURCE FACING SERVICE SPECIFICATION ATOMIC
RESOURCE FACING SERVICE SPEC COMPOSITE	RESOURCE FACING SERVICE SPECIFICATION COMPOSITE
RESOURCE FACING SERVICE SPEC ROLE	RESOURCE FACING SERVICE SPECIFICATION ROLE
RESOURCE ORDER ITEM	RESOURCE ORDER LINE ITEM
RESOURCE SPEC PERF ROLE	RESOURCE SPECIFICATION PERF ROLE
SALES CAMPAIGN SUMMARY DAY DRVD	CAMPAIGN HISTORY DAY DRVD
SERVICE BUNDLE SPEC	SERVICE BUNDLE SPECIFICATION
SERVICE BUNDLE SPEC ATOMIC	SERVICE BUNDLE SPECIFICATION ATOMIC
SERVICE BUNDLE SPEC COMPOSITE	SERVICE BUNDLE SPECIFICATION COMPOSITE
SERVICE CHARACTERISTIC	SERVICE SPECIFICATION CHARACTERISTIC
SERVICE CHARACTERISTIC ASSIGNMENT	SERVICE SPECIFICATION CHAR USE
SERVICE CHARACTERISTIC RELATIONSHIP	SERVICE SPECIFICATION CHARACTERISTIC RELATIONSHIP
SERVICE CHARACTERISTIC VALUE	SERVICE SPECIFICATION CHARACTERISTIC VALUE
SERVICE CHARACTERISTIC VALUE ASSIGNMENT	SERVICE SPECIFICATION CHAR VALUE USE
SERVICE CHARACTERISTIC VALUE RELATIONSHIP	SERVICE SPECIFICATION CHAR VALUE RELATIONSHIP
SERVICE NETWORK ELEMENT ASSIGNMENT	SERVICE RESOURCE ASSIGNMENT
SERVICE PACKAGE SPEC	SERVICE PACKAGE SPECIFICATION

Table D–5 (Cont.) Logical Entities Renamed for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
SERVICE PACKAGE SPEC ATOMIC	SERVICE PACKAGE SPECIFICATION ATOMIC
SERVICE PACKAGE SPEC COMPOSITE	SERVICE PACKAGE SPECIFICATION COMPOSITE
SERVICE SPEC	SERVICE SPECIFICATION
SERVICE SPEC ATOMIC	SERVICE SPECIFICATION ATOMIC
SERVICE SPEC COMPOSITE	SERVICE SPECIFICATION COMPOSITE
SERVICE SPEC NETWORK ELEMENT TYPE RELATIONSHIP	SERVICE SPECIFICATION RESOURCE SPEC RELATIONSHIP
SERVICE SPEC PRODUCT RELATIONSHIP	SERVICE SPECIFICATION PRODUCT SPECIFICATION RELATIONSHIP
SERVICE SPEC VERSION	SERVICE SPECIFICATION VERSION
SHOP EFFICIENCY DAY DRVD	STORE EFFICIENCY DAY DRVD
SHOP EFFICIENCY MONTH AGGR	STORE EFFICIENCY MONTH AGGR
SIM CARD SUBSCRIPTION ASSIGNMENT	SIM CARD PRODUCT SUBSCRIPTION ASSIGNMENT
SIM CARD SUBSCRIPTION REASON	SIM CARD PRODUCT SUBSCRIPTION REASON
SUBSCRIPTION	PRODUCT SUBSCRIPTION
SUBSCRIPTION ASSIGNMENT	PRODUCT SUBSCRIPTION ASSIGNMENT
SUBSCRIPTION ASSIGNMENT TYPE	PRODUCT SUBSCRIPTION ASSIGNMENT TYPE
SUBSCRIPTION EVENT TYPE	PRODUCT SUBSCRIPTION EVENT TYPE
SUBSCRIPTION NETWORK ELEMENT ROLE ASSIGNMENT	SUBSCRIPTION RESOURCE ROLE ASSIGNMENT
SUBSCRIPTION PRICE	PRODUCT SUBSCRIPTION PRICE
SUBSCRIPTION PRICE ALTERATION	PRODUCT PRICE ALTERATION
SUBSCRIPTION PRICE PARTY ROLE ASSIGNMENT	PRODUCT PRICE PARTY ROLE
SUBSCRIPTION STATUS	PRODUCT SUBSCRIPTION STATUS
SUBSCRIPTION STATUS CATEGORY	PRODUCT SUBSCRIPTION STATUS CATEGORY
SUBSCRIPTION STATUS HISTORY	PRODUCT SUBSCRIPTION STATUS HISTORY
SUBSCRIPTION STATUS REASON	PRODUCT SUBSCRIPTION STATUS REASON
SUBSCRIPTION TERM TYPE	PRODUCT SUBSCRIPTION TERM TYPE
SUBSCRIPTION TYPE	PRODUCT SUBSCRIPTION TYPE
TARGET CONTRACT	TARGET AGREEMENT
TELEPHONE NUMBER	PHONE NUMBER
TELEPHONE NUMBER POOL	PHONE NUMBER POOL
VENDOR CONTRACT	VENDOR AGREEMENT
WIRELESS NETWORK ELEMENT	WIRELESS RESOURCE
WIRLESS SERVICE	WIRELESS SERVICE

Table D–6 Logical Entities Renamed (__TODEL) for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
ACCOUNT BALANCE ADJUSTMENT	__TODEL_ACCOUNT BALANCE ADJUSTMENT
ACCOUNT BALANCE BUCKET	__TODEL_ACCOUNT BALANCE BUCKET
ACCOUNT BALANCE HISTORY	__TODEL_ACCOUNT BALANCE HISTORY
ACCOUNT BALANCE TRANSFER	__TODEL_ACCOUNT BALANCE TRANSFER

Table D–6 (Cont.) Logical Entities Renamed (__TODEL) for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
ACCOUNT DEBT DAY DRVD	__TODEL_ACCOUNT DEBT DAY DRVD
ACCOUNT DEBT WRITE OFF	__TODEL_ACCOUNT DEBT WRITE OFF
ACCOUNT PAYMENT BALANCE IMPACT	__TODEL_ACCOUNT PAYMENT BALANCE IMPACT
ACCOUNT PAYMENT METHOD STATUS HIST AGGR	__TODEL_ACCOUNT PAYMENT METHOD STATUS HIST AGGR
ACCOUNT RECHARGE	__TODEL_ACCOUNT RECHARGE
ACCOUNT REFUND	__TODEL_ACCOUNT REFUND
ACCOUNT REFUND DAY DRVD	__TODEL_ACCOUNT REFUND DAY DRVD
ACCOUNT REFUND MONTH AGGR	__TODEL_ACCOUNT REFUND MONTH AGGR
ACCOUNT STATISTIC DRVD	__TODEL_ACCOUNT STATISTIC DRVD
ACCOUNT STATISTIC TYPE AGGR	__TODEL_ACCOUNT STATISTIC TYPE AGGR
ACCOUNT STATUS DRVD	__TODEL_ACCOUNT STATUS DRVD
ACCOUNT STATUS TYPE AGGR	__TODEL_ACCOUNT STATUS TYPE AGGR
CONTRACT MONTH AGGR	__TODEL_AGREEMENT MONTH AGGR
ALLOWANCE TYPE	__TODEL_ALLOWANCE TYPE
ARPU BASE DRVD	__TODEL_ARPU BASE DRVD
BUNDLED NETWORK EVENT	__TODEL_BUNDLED UDR EVENT
BUSINESS INTERACTION STATUS HISTORY	__TODEL_BUSINESS INTERACTION STATUS HISTORY
BUSINESS INTERACTION STATUS TYPE	__TODEL_BUSINESS INTERACTION STATUS TYPE
BUSINESS INTERACTION TYPE	__TODEL_BUSINESS INTERACTION TYPE
CALL CENTER CASE DAY DRVD	__TODEL_CALL CENTER CASE DAY DRVD
CANNIBALIZATION DETAIL MONTH AGGR	__TODEL_CANNIBALIZATION DETAIL MONTH AGGR
CASH PAYMENT	__TODEL_CASH PAYMENT
CHECK PAYMENT	__TODEL_CHECK PAYMENT
CHURN PREDICT SOURCE DERIVED	__TODEL_CHURN PREDICT SOURCE DERIVED
CHURN REASON	__TODEL_CHURN REASON
PRODUCT RATING PLAN DETAIL	__TODEL_COMPONENT PRODUCT OFFERING PRICE
COMPOUND ELEMENT COMPOUND DETAIL	__TODEL_COMPOUND RESOURCE COMPOUND DETAIL
COMPOUND ELEMENT LOGICAL DETAIL	__TODEL_COMPOUND RESOURCE LOGICAL DETAIL
COMPOUND ELEMENT PHYSICAL DETAIL	__TODEL_COMPOUND RESOURCE PHYSICAL DETAIL
CONNECT DISCONNECT DAY DRVD	__TODEL_CONNECT DISCONNECT DAY DRVD
CONNECT DISCONNECT MONTH AGGR	__TODEL_CONNECT DISCONNECT MONTH AGGR
COST ORGANIZATIONAL MONTH AGGR	__TODEL_COST ORGANIZATIONAL MONTH AGGR
CREDIT CATEGORY DRVD	__TODEL_CREDIT CATEGORY DRVD
CREDIT CATEGORY MONTH AGGR	__TODEL_CREDIT CATEGORY MONTH AGGR
CUSTOMER ACQUISITION SUMMARY DAY DRVD	__TODEL_CUSTOMER ACQUISITION SUMMARY DAY DRVD
CUSTOMER CALL SOCIAL NETWORK	__TODEL_CUSTOMER CALL SOCIAL NETWORK
CUSTOMER COMMUNITY ASSIGNMENT	__TODEL_CUSTOMER COMMUNITY ASSIGNMENT
CUSTOMER FIELD INSTALLATION	__TODEL_CUSTOMER FIELD INSTALLATION
CUSTOMER FIELD SUPPORT	__TODEL_CUSTOMER FIELD SUPPORT
CUSTOMER LTV BAND	__TODEL_CUSTOMER LTV BAND
CUSTOMER MINING	__TODEL_CUSTOMER MINING
CUSTOMER NET ORDERS QUARTERLY	__TODEL_CUSTOMER NET ORDER QUARTERLY

Table D–6 (Cont.) Logical Entities Renamed (__TODEL) for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
CUSTOMER SENTIMENT	__TODEL_CUSTOMER SENTIMENT
DEBT COLLECTION	__TODEL_DEBT COLLECTION
DEBT COLLECTION ASSIGNMENT	__TODEL_DEBT COLLECTION ASSIGNMENT
DEBT COLLECTION ASSIGNMENT BATCH	__TODEL_DEBT COLLECTION ASSIGNMENT BATCH
DIRECT DEBIT PAYMENT	__TODEL_DIRECT DEBIT PAYMENT
EQUIPMENT TYPE	__TODEL_EQUIPMENT TYPE
EVENT CONTRACT	__TODEL_EVENT BUSINESS INTERACTION AGREEMENT
EVENT GIFT REDEMPTION	__TODEL_EVENT GIFT REDEMPTION
EVENT INVOICE DELIVERY	__TODEL_EVENT INVOICE DELIVERY
EVENT LOYALTY PROGRAM ACCUMULATION	__TODEL_EVENT LOYALTY PROGRAM ACCUMULATION
EVENT LOYALTY PROGRAM REDEMPTION	__TODEL_EVENT LOYALTY PROGRAM REDEMPTION
EVENT PARTY INTERACTION CALL	__TODEL_EVENT PARTY INTERACTION CALL
EVENT CHAT	__TODEL_EVENT PARTY INTERACTION CHAT
EVENT PARTY INTERACTION EMAIL	__TODEL_EVENT PARTY INTERACTION EMAIL
EVENT PARTY INTERACTION LETTER	__TODEL_EVENT PARTY INTERACTION LETTER
EVENT PARTY INTERACTION VISIT	__TODEL_EVENT PARTY INTERACTION VISIT
EVENT WEB REGISTRATION	__TODEL_EVENT PARTY INTERACTION WEB REGISTRATION
EVENT WEB VISIT	__TODEL_EVENT PARTY INTERACTION WEB VISIT
EXTERNAL DEBT COLLECTION DAY DRVD	__TODEL_EXTERNAL DEBT COLLECTION DAY DRVD
GIVE AWAY ITEM MONTH AGGR	__TODEL_GIVE AWAY ITEM MONTH AGGR
GPRS PCU DAY DRVD	__TODEL_GPRS PCU DAY DRVD
GPRS PCU MONTH AGGR	__TODEL_GPRS PCU MONTH AGGR
GPRS SERVICES DAY DRVD	__TODEL_GPRS SERVICES DAY DRVD
GPRS SERVICES MONTH AGGR	__TODEL_GPRS SERVICES MONTH AGGR
HANDSET STOCK DAY DRVD	__TODEL_HANDSET STOCK DAY DRVD
HANDSET STOCK MO AGGR	__TODEL_HANDSET STOCK MO AGGR
INTERNAL DEBT COLLECTION DAY DRVD	__TODEL_INTERNAL DEBT COLLECTION DAY DRVD
INTERNAL DEBT COLLECTION MONTH AGGR	__TODEL_INTERNAL DEBT COLLECTION MONTH AGGR
INVOICE ADJUSTMENT DRVD	__TODEL_INVOICE ADJUSTMENT DRVD
ITEM TYPE	__TODEL_ITEM SPECIFICATION TYPE
LOYALTY PROGRAM CHANNEL	__TODEL_LOYALTY PROGRAM CHANNEL
LOYALTY PROGRAM DAY DRVD	__TODEL_LOYALTY PROGRAM DAY DRVD
LOYALTY PROGRAM EVENT CATEGORY	__TODEL_LOYALTY PROGRAM EVENT CATEGORY
LOYALTY PROGRAM EVENT TYPE	__TODEL_LOYALTY PROGRAM EVENT TYPE
LOYALTY PROGRAM PARTY ROLE	__TODEL_LOYALTY PROGRAM PARTY ROLE
LOYALTY PROGRAM POINTS BALANCE	__TODEL_LOYALTY PROGRAM POINTS BALANCE
LOYALTY PROGRAM TERMINATION REASON	__TODEL_LOYALTY PROGRAM TERMINATION REASON
MARKET OPERATOR PORTING DERIVED	__TODEL_MARKET OPERATOR PORTING DERIVED
NETWORK EVENT CHARACTERISTIC VALUE	__TODEL_NETWORK EVENT CHARACTERISTIC VALUE
NETWORK FAULT	__TODEL_NETWORK FAULT
NETWORK FAULT CHARACTERISTIC	__TODEL_NETWORK FAULT CHARACTERISTIC
NETWORK FAULT CHARACTERISTIC TYPE	__TODEL_NETWORK FAULT CHARACTERISTIC TYPE

Table D–6 (Cont.) Logical Entities Renamed (__TODEL) for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
NETWORK FAULT CHARACTERISTIC VALUE	__TODEL_NETWORK FAULT CHARACTERISTIC VALUE
PARTY INTERACTION THREAD SUBSCRIPTION ASSIGNMENT	__TODEL_PARTY INTERACTION SUBSCRIPTION ASSIGNMENT
PARTY INTERACTION THREAD	__TODEL_PARTY INTERACTION THREAD
PARTY INTERACTION THREAD TYPE	__TODEL_PARTY INTERACTION THREAD TYPE
PARTY LOYALTY PROGRAM PARTICIPATION	__TODEL_PARTY LOYALTY PROGRAM PARTICIPATION
PAYMENT AGING DAY DRVD	__TODEL_PAYMENT AGING DAY DRVD
PAYMENT AGING MONTH AGGR	__TODEL_PAYMENT AGING MONTH AGGR
PAYMENT ORDER PAYMENT	__TODEL_PAYMENT ORDER PAYMENT
PERFORMANCE INDICATOR DERIVATION PARAMETER	__TODEL_PERFORMANCE INDICATOR DERIVATION PARAMETER
PERFORMANCE IP ADDRESS SPECIFICATION	__TODEL_PERFORMANCE IP ADDRESS SPECIFICATION
PERFORMANCE NETWORK ADDRESS SPECIFICATION	__TODEL_PERFORMANCE NETWORK ADDRESS SPECIFICATION
POSTAL ORDER PAYMENT	__TODEL_POSTAL ORDER PAYMENT
POSTPAID WIRELESS	__TODEL_POSTPAID WIRELESS
PREPAID ACCOUNT ACTIVATION DAY DRVD	__TODEL_PREPAID ACCOUNT ACTIVATION DAY DRVD
PREPAID ACCOUNT STATISTIC SEGMENT AGGR	__TODEL_PREPAID ACCOUNT STATISTIC SEGMENT AGGR
PREPAID CALL SUMMARY DAY DRVD	__TODEL_PREPAID CALL SUMMARY DAY DRVD
PREPAID CALL SUMMARY MONTH AGGR	__TODEL_PREPAID CALL SUMMARY MONTH AGGR
PREPAID WIRELESS	__TODEL_PREPAID WIRELESS
PRODUCT CHARGING REASON	__TODEL_PRODUCT CHARGING REASON
PMP LOYALTY PROGRAM AVAILABILITY	__TODEL_PRODUCT OFFERING LOYALTY PROGRAM AVAILABILITY
SUBSCRIPTION PRICE CHARGE	__TODEL_PRODUCT PRICE CHARGE
PRODUCT CHARACTERISTIC TYPE	__TODEL_PRODUCT SPECIFICATION CHARACTERISTIC TYPE
PROMOTION PRODUCT ASSIGNMENT	__TODEL_PROMOTION PRODUCT OFFERING PRICE ASSIGNMENT
RECURRING PMP RATING PLAN DETAIL	__TODEL_RECURRING PRODUCT OFFERING PRICE
REDEMPTION DAY DRVD	__TODEL_REDEMPTION DAY DRVD
SALES DAY DRVD	__TODEL_SALES DAY DRVD
SALES MONTH AGGR	__TODEL_SALES MONTH AGGR
SALES REPRESENTATIVE STATISTICS MO AGGR	__TODEL_SALES REPRESENTATIVE STATISTICS MO AGGR
SCP	__TODEL_SCP
SERVICE BUSINESS ACTOR	__TODEL_SERVICE BUSINESS ACTOR
SERVICE PACKAGE BUNDLE ASSIGNMENT	__TODEL_SERVICE PACKAGE BUNDLE ASSIGNMENT
SGSN	__TODEL_SGSN
SHARED PACKAGE USAGE STATISTICS DAY DRVD	__TODEL_SHARED PACKAGE USAGE STATISTICS DAY DRVD
SHARED PACKAGE USAGE STATISTICS MO AGGR	__TODEL_SHARED PACKAGE USAGE STATISTICS MO AGGR
SUBSCRIPTION STATISTIC DRVD	__TODEL_SUBSCRIPTION STATISTIC DRVD
NETWORK EVENT ACCOUNT BALANCE BUCKET IMPACT	__TODEL_UDR EVENT ACCOUNT BALANCE BUCKET IMPACT

Table D–6 (Cont.) Logical Entities Renamed (__TODEL) for Release 11.3.2

Entity Name (Release 11.3.1)	Entity Name (Release 11.3.2)
NETWORK EVENT ACCOUNT BALANCE IMPACT	__TODEL_UDR EVENT ACCOUNT BALANCE IMPACT
NETWORK EVENT CHARACTERISTIC ASSIGNMENT	__TODEL_UDR EVENT CHARACTERISTIC ASSIGNMENT
WIRE TRANSFER PAYMENT	__TODEL_WIRE TRANSFER PAYMENT

Table D–7 Logical Entities Removed for Release 11.3.2

Entity Name (Release 11.3.1)
CALL CENTER CALL MONTH AGGR
CALL CENTER CASE MONTH AGGR
COMPOSITE PRODUCT RATING PLAN
DSLAM
EXTERNAL DEBT COLLECTION MONTH AGGR
NETWORK ELEMENT TYPE VERSION
NETWORK ELEMENT TYPE VERSION USAGE
ORDER STATUS
PARTY AM PMP ASSIGNMENT STATUS
PMP RATING PLAN
PMP RATING PLAN DETAIL

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