Oracle Insurance Data Foundation User Guide 8.0.4.0.0

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Preface

This chapter discusses the following topics:

- Intended Audience
- Documentation Accessibility
- Access to Oracle Support
- Related Information Sources

Intended Audience

Welcome to Release 8.0.4.0.0 of the Oracle Insurance Data Foundation User Guide.

This document is the user guide and reference guide for the Oracle Insurance Data Foundation (OIDF) release 8.0.4.0.0, and is intended for System Administrator and all users who are instrumental in configuring and administering OIDF with Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) platform.

See Related Information Sources for more Oracle product information.

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

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Related Information Sources

Refer to the below documents in OHC Documentation Library:

- Technical Whitepaper on Data Model Document Generation (OHC)
- Installation Guide for Oracle Financial Services Data Foundation 8.0.4.0.0 (OHC)
- Installation and Configuration Guide for OFSAAI release 8.0.4.0.0 (OHC)

CHAPTER 1 Introduction to OIDF

This chapter introduces you to Oracle Insurance Data Foundation (OIDF), its components, relationship with Oracle Financial Services Analytical Applications Infrastructure (OFSAAI), and the key prerequisites for running OIDF.

This chapter includes the following topics:

- Overview
- Components of OIDF
- Relationship to Oracle Financial Services Analytical Applications
- OIDF Prerequisite Components and Tools

Overview

The Oracle Insurance Data Foundation (OIDF) is an analytical data warehouse platform for the Insurance industry.

OIDF combines an industry data model for Insurance along with a set of management and infrastructure tools that allows Insurance providing institutions to develop, deploy, and operate analytical solutions spanning key functional areas in Insurance industries, including:

- 1. Health Insurance
- 2. Property Casualty
- 3. Life Insurance
- 4. Annuities
- 5. Re-insurance

OIDF is a comprehensive data management platform that helps institutions to manage the analytical data life cycle from sourcing to reporting, as a consistent platform and toolset.

Components of OIDF

OIDF consists of the following components, which are described in additional detail in the following sections.

| Criteria | Description |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Logical Data Model | A reference model of the Insurance domain for various types of Insurance. This model captures the business processes of a typical Insurance institution in detail. |
| (LDM) | This is a logical data model, which means that it cannot be readily used. The structures modeled in the OIDF LDM provide an abstract, graphical model of the Insurance industry domain using Entity-Relationship modeling. It can be thought of as a detailed blueprint for organizing data within a Insurance institution. It provides a reference guide for institutions to understand the salient data related to a specific business process. |
| | To actually use the OIDF in practice, customers deploy the OIDF Analytical Warehouse Model, which is derived from the LDM (blueprint). |
| OIDF Analytical | A physical data model that supports data sourcing and reporting related to key analytical use cases in the Insurance industry. |
| Warehouse Data Model | The Warehouse Model is a physical data model, unlike the OIDF LDM, meaning that it is readily deployable, and consists of database object definitions, and additional supporting scripts. |
| | It is organized into two distinct sets of tables based on purpose: The Staging model, which facilitates data sourcing from the Insurance provider's internal operational systems such as Policy systems, Claims systems, Fund Management, and so on. |
| | The Reporting model which facilitates the storage of outputs from analytical tools, applications, and engines in a manner that is conducive to BI reporting. |
| | The Warehouse Model is typically deployed into production via a set of management tools called the Oracle Financial Services Analytical Application Infrastructure (OFSAAI). The AAI is a separate product, and is a prerequisite for OIDF (see Infrastructure). |
| Supporting scripts | As part of the OIDF package, there are additionally a number of scripts provided for basic operations such as internal data movement between the staging and reporting areas. |

Relationship to Oracle Financial Services Analytical Applications

The OIDF is very closely related to the Oracle Financial Services Analytical Applications (OFSAA) in the following ways:

- 1. Data Model
- **OIDF Staging Model** provides the complete data sourcing foundation for OFSAA applications. All application-specific input data requirements are captured as part of the staging data model. OIDF Staging Model is a combination of all staging models supplied with each OFSAA application.
- **OIDF Reporting Model** provides the complete reporting data model common to all the OFSAA Business Intelligence (BI) applications. This includes a single set of conformed dimensions and unified fact tables used for cross-functional reporting. OIDF reporting model is the superset of all the BI-application specific reporting models.
- Logical Data Model (LDM): The OIDF Logical Data Model is independent of OFSAA analytical applications, and more aligned to the underlying business processes of a financial institution. However, there is significant content overlap in the lower-level details of the LDM entities/attributes. This is captured in the form of attribute level mappings between LDM entities/attributes and their corresponding equivalents in the OIDF staging area data model. This mapping is made available as part of the OIDF release packaging.

- Synchronized Releases: The Staging and Reporting models that are part of an OIDF release are updated to reflect prior application-specific releases. This means that the latest release of OIDF (8.0.4.0.0) reflects all prior application releases across OFSAA from a data model perspective, with respect to the Staging and Reporting models.
- 2. Infrastructure
- The Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) is the same infrastructure that is used to deploy and manage an OIDF instance.
- The same collection of tools (OFSAAI) is used to manage a deployed instance of OIDF.

These are the tools used to manage the data lifecycle in OIDF:

- Model Upload
- Unified Analytical Metadata (UAM)
- Data Quality Framework
- T2T framework
- Mart Management Framework

OIDF Prerequisite Components and Tools

The key prerequisites for running OIDF are listed as follows:

| Component | Provider | Purpose |
|---------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oracle Financial Services Analytical Applications Infrastructure version 8.0.4.0.0 | Oracle | OFSAAI is the platform on which the OIDF is deployed and operated. It represents the OIDF 'runtime' environment, and consists of a number of tools used to manage the data lifecycle within OIDF, from sourcing to reporting*. |
| Oracle Database Enterprise Edition 11gR2 and 12cR1 | Oracle | OIDF is certified on Oracle Database releases 11gR2 and higher. |
| ERwin data modeler version 9.5+ | Computer Associates (CA) | ERwin is a data modeling tool that provides a visual environment to manage the complex enterprise data environment. |

*OFSAAI, the infrastructure platform has its own prerequisites and supporting documentation.

CHAPTER 2 Understanding OIDF

This chapter explains the background of OIDF, its functional architecture along with the differences from traditional warehouse architecture. OIDF product package consists of the Logical Data Model and Analytical Data Warehouse model. The individual components of Physical and Logical Data Model, and Mapping Logical Data Model to OIDF Staging Area are explained in detail.

This chapter covers the following topics:

- Background
- OIDF Architecture
- Differences from Traditional Warehouse Architecture
- OIDF Logical Data Model
- Staging Data Model
- OIDF Logical Data Model
- Relationship to the OIDF Physical Model
- OIDF LDM Content Details
- Mapping from Logical Data Model to OIDF Staging Area

Background

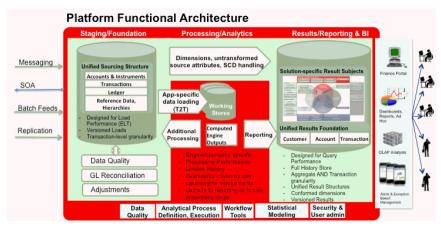
It is important to note that OIDF architecture differs from 'traditional' data warehouse architecture.

OIDF was built to specifically address the key challenges of building a scalable, practical data management platform to support Insurance Analytics needs. The differences from traditional BI architecture are highlighted and explained in the following sections.

OIDF Architecture

The following figure depicts the OIDF Functional Architecture.

Figure 1. Architecture



The OIDF architecture can be thought of as two distinct, interacting components. The dark green colored cylindrical portions denote the data repository and the red colored portion denotes the management toolkit.

- 1. **A data repository** whose physical structure is given by the OIDF physical data model (here Physical Data Model = OIDF Staging + OIDF Reporting). This user guide only details the structure and organization of the data repository that is covered by the data models in the OIDF.
- 2. A management toolkit provided by OFSAAI that is used to manage the data repository, by providing a collection of tools and frameworks based on a common metadata foundation. This user guide does not cover the details of the Analytical Application Infrastructure, as that is a separate product with its own documentation.

The architecture illustrates the following key concepts:

- 1. A **unified data-sourcing area for analytics:** The OIDF Staging Data Model provides the basis for central, unified data-sourcing layer for a variety of analytical needs. The staging layer faces the operational (OLTP) and front office systems of a bank. It consists of tables to capture key business and operational data from these systems, which is then processed by one or more analytical engines.
- 2. A **unified reporting/consumption layer:** Analytical results can be simple to complex, quantitative and qualitative measures of a provider's Risk, Compliance, Customer and Fund Performance. The OIDF Reporting data model is a dimensional data model spanning these key analytical functions. It forms the foundation of OFSAA Business Intelligence applications, but can clearly be used as the result data store for any equivalent engines and processes provided by other vendors, or custom-built solutions. By providing a single data repository for reporting needs, this layer provides a foundation for departmental and cross-departmental and cross-functional reporting.

Additionally, the schema of the reporting area is specifically built for Insurance analytics. As an illustration, the reporting area has a 'Run dimension' that is shared across all BI/reporting use cases. Similarly, the aggregation of shared measures/reporting into a common set of output structures (Account Summary) allows for cross-functional reporting, which is increasingly the norm in Insurance institutions.

- 3. **Single point of control and operation:** The Oracle Financial Services Analytical Applications Infrastructure is a separate Oracle product that offers a set of tools that are built on a common metadata foundation. These tools are used to control and manage the lifecycle of data from sourcing to reporting. There is a collection of frameworks to manage the following lifecycle steps of data within OIDF:
 - Metadata Management
 - Data Quality
 - Data Movement
 - Scheduling and runtime operations
 - Security/User management
 - Analytical Process Definition and Execution
- 4. **Processing Area:** As explained earlier, the primary purpose of the OIDF is to serve as a container for analytical processing from sourcing to consumption. Such processing is usually delivered in the form of discrete units called analytical applications spanning different analytical use cases ranging from Policy to Claims to Fund Allocation.

These applications consist of custom-built computational engines and numerical libraries, and may execute processes on the data that range from simple aggregations to complex, multi-step stochastic processes such as Monte-Carlo simulation.

Hence, analytical applications place varying demands on the data infrastructure in terms of volumes and speed, and hence place different demands on data architecture. In practice, the normalized (3NF) design favored for Enterprise Data Warehouses often fails to be efficient or performant when it comes to analytical processing across a wide range of use cases.

Therefore, the OIDF recognizes the need for distinct application-specific working stores, separate from the staging and reporting area.

Important: The structure of these processing area stores is decided by the actual analytical application and engine used. The OFSAA suite of applications is organized this way, with each application managing a specific set of tables/schemas within the processing area.

The processing area tables/schemas are not part of the OIDF. This is because the OIDF is intended to be an open platform. Other analytical applications and engines can equally provision data out of OIDF by mapping their input requirements appropriately to the OIDF staging area model.

Differences from Traditional Warehouse Architecture

| Component | OIDF | Traditional BI Architecture |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staging Layer | Common Staging Area (CSA) where data from source systems are staged and is implemented as database schema. | Usually a filesystem-based area where file-based extracts (operational images) from source systems are staged prior to loading into a target schema. |
| 3rd Normal Form Operational Data Store/Enterprise Data Warehouse | Does not provide a physicalized model for a 3NF store. The FS LDM can be physicalized as a 3NF store if desired. | Notification sent to all users captured as owners and user who submitted the definition. |
| | Operational/fine-grained reporting will be fulfilled from the reporting area. | |
| Data Marts/Reporting Model | Set of star schemas with conformed dimensions (Ralph Kimball approach) | Set of star schemas. |

This table summarizes the differences of the OIDF from a traditional Data Warehouse architecture.

With the preceding understanding in mind, the following sections describe the data models in the OIDF in greater detail.

OIDF Physical Data Model

The OIDF Physical Data Model is the primary deployed structure in the OIDF. As detailed in the architecture section, it has the following key characteristics:

- 1. **Readily Deployable:** The Physical Data Model is a readily deployable physical schema. It is provided as an ERwin data model file (for details on ERwin, see http://erwin.com/products/modeler/) and consists of tables grouped into distinct subject areas depending on function. The tables are either used to gather source data (Staging Area), or as containers of outputs/results from analytical processing and engines for reporting purposes (Reporting Area).
- 2. Use-case Driven: The OIDF Physical Data model is driven by a set of clearly identified analytical use cases spanning Performance, Experience, and Compliance.

3. **Extensible:** While the OIDF Physical Data Model satisfies a very large number of analytical use cases across Fund, Claims, Policy, Policy Coverage, Mortality, and Morbidity subject areas, customers can find the need to customize the model for a specific installation.

These customizations can be done in accordance with guidelines published in Chapter 22, "Using OIDF," section of this manual.

The OIDF Physical Data Model is divided into two primary areas.

Staging Data Model

Overview/Design

The Common Staging Area Model (CSA) represents the point of entry of data into the OIDF. The CSA provides a simplified, unified data sourcing area for inputs required by analytical applications and engines. It consists of over 400 tables and nearly 9000 columns organized into distinct subjects. The salient features of the CSA are as follows:

1. **Mapping to Analytical Use Cases**: Since the primary purpose of the OIDF is to be a data repository supporting analytics, each database object in the OIDF physical data model is necessarily mapped to a corresponding analytical use case.

These mappings are captured in the data model, in the form of additional metadata called User-defined Properties (UDPs), and can be leveraged to reduce the scope of data gathering efforts by focusing on clearly-defined end use cases such as Basel II, Market Risk Analytics, and others.

These mappings can readily be extracted into a Download Specification, which lists the data demands for a specific analytical use case. An example is shown follows:

| Column | Balatype 💌 | Coloritan | - | • m | | | | CRM | - | • | - | Market w | Channel Analysis | Column * | Code R | Ecap - Market Ruk | | Market |
|---------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|-----|---|------|------|-----|----|----|----------|---------------------|----------|--------|-------------------------|----|--------|
| fk_mi_date | DATE | This is the date on which the codes are extracted from the source systems. | NO | NO | NO | | | Yes | NO | N | 0 | NO | NO | NO | ND | NO | NO | NO |
| v_reject_reason _desi | VARCHARD(60) | This stores the description of the application rejection reason code | NO | NO | NO | | e | Vei. | 80 | 24 | ó | ND | N0 | ND | ND | 10 | NO | NO |
| v_appin_reject_r exson_code | WROWR2(20) | Application rejection reason code like inadequate collateral, industry risk etc. | NO | NO | NO | | 0 | Te | Yes | N | 0 | NO | NO | NO | NO | NO | NO | NO |
| v_applicant_utet ut_code | VARD-IAR2(20) | This column stores the application status code This is the date on which the status codes are extracted from the source | NO | NO | NO | N | a | Yes | NO | N | 0 | ND | NO | NO | ND | NO | NO | NO |
| fc_mi_dee | GATE | This is the date on which the status codes are extracted from the source systems. | NO | NO | 140 | | 0 | TE | NO | ~ | | 140 | NO | 140 | N0 | 10 | NO | NO |
| v_applicant_stat ut_dex | VARO-VAR2(60) | This column stores the description of application status codes | NO | NO | NO | | ic . | Yes. | NO | N | 0 | NO | NO | NO | NO | NO | NO | NO |
| v_epplication_ty pr | VARDIARIOS | This column shows the application type code like firsth, existing and so on. | NO | NO | NO | | | Yes | NO | N | 0 | NO | NO | NO | NO | 10 | 10 | NO |
| fic mil date v appin_tipe_d | GATE | This is the date on which the codes are extracted from the source systems. | NO | NO | NO | N | | Yes | NO | N | | ND | NO | NO | ND | NO | NO | NO |
| v_attr_real_cod | | This column stores the description of application type. | NO | NO | 140 | | | Yes | 840 | N | | N0 | 140 | NO | 40 | 10 | 80 | NO |
| * | AND MIGHT | This is the unique code (identifier) assigned to each of the attrition reasons. This is the date on which processing summersus, ideally, the end of the | NO | NO | NO | N | q | Yes | NO | N | 0 | NO | NO | NO | ND | NO | NO | NO |
| fi, mi, date v attr reaion d | GATE | business day of the nonth. | NO | NO | NO | | ¢ | Yes | NO | N | 0 | NO | NO | NO | ND | NO | NO | NO |
| es. | MARCHANG [BC] | This column holds the description of reasons | NO | NO | NO | | iç. | Tes | NO | 74 | p. | NO | NO | NO | NO | NO | NO | NO |
| futtrition_type | O(A)(1) | | NO | NO | NO | N | 0 | Yes | NO | N | 0 | ND | NO | NO | NO | NO | NO | NO |
| ype_dest v decision reas | VAROHARI(60) | | NO | NO | NC | | d | Yas | 80 | N | 6 | ND | N0 | ND | ND | 80 | 80 | 80 |
| on_code | WARDHARD[20] | This column stores the authorization decision reason codes. | NO | NO | NO | | 10 | Yes | Yes | N | 0 | NO | NO | NO | NO | NO | NO | NO |
| fc_mi_date | DATE | This is the date on which the codes are extracted from the source systems. | NO | NO | NO | | ø | Yes | NO | N | 0 | ND | NO | NO | ND | NO | NO | NO |
| v reason_Area | www. | This column atoms the description for authorization devision reason codes. | NO | NO | 140 | | 12 | Yes | - | ~ | | NO | 140 | 140 | ND | N0 | ND | ND |
| e id | VARDIAR3(20) | Stares the bank role for the Securitisation Exposure The exit action date represents the period for which the data is meant for. | NO | NO | NO | | 6 | NC | NO | N | 0 | NO | NO | NO | Yes | NO | NO | NO |
| fic mis_date | DATE | When the frequency of data is monthly the extraction date will be the month end date. | NO | NO | NO | | 0 | NO | NO | N | 6 | NO | NO | NO | Yes | NO | NO | NO |

Figure 2. Download Specification

The Mappings can be generated from the OIDF ERwin file using ERwin's reporting tools.

2. **Schema Design:** The data model of the Common Staging Area is designed to facilitate loading efficiency. This means that it is denormalized.

The primary focus of the staging area is to efficiently deliver data from operational systems such as Policy Administration, Claims Processing and Fund Management to multiple analytical applications that process this data.

Typically, this data is extracted from source systems and loaded into OIDF directly, or alternatively into a pre-defined file-based operational image area from which it is subsequently loaded into the OIDF schema. In a large Insurance institution, it is not unusual to have 10s to 100s of millions of policies, and claims.

Standard ETL (Extract, Transform, Load) approaches can fail to address this requirement adequately because of the complexity imposed by the target schema. If the target schema is increasingly normalized, then the ETL into this schema is correspondingly more complex, requiring careful load ordering to prevent integrity-related load failures, as well as integrity validation prior to loading. Such complex ETL processing is time-consuming and is prone to failure.

To address this, the CSA is designed to support a simplified loading process. De-normalized tables allow efficient data loading, and subsequent transformations can be done to verify data integrity through a series of data quality checks. This represents an 'ELT (Extract Load Transform)' approach to data sourcing, which is far more suited for an analytical data repository.

- 3. Application-managed Referential Integrity (RI): In conjunction with the database design of the staging schema, a key feature is the management of Referential Integrity primarily in the application tier, rather than within the database. Rather than imposing foreign key relationships in the database, which could cause complex loading order dependencies, relationships between staging tables are managed by the Data Quality (DQ) framework, a toolkit within the Analytical Application Infrastructure that captures the relevant data quality checks for a specific table in the staging model. These checks include:
 - Value checks (Nulls, Value ranges, business checks on numeric fields)
 - Referential Integrity checks (which are otherwise implemented as foreign key constraints)

Important: This is also why the ER model of the staging area in ERwin does not contain any relationships – the staging area is a physical data model, which is deployed using the Analytical Application Infrastructure, which manages it.

In summary – the design of the staging area data model is to allow efficient data loading for analytics. It thus has crucial differences from a general-purpose repository of operational/transactional data across a Insurance institution.

Details of the Staging Data Model

The CSA model consists of over 400 tables and nearly 9000 attributes. These tables are organized into multiple 'subjects', currently by analytical use case/solution need.

However, it makes sense to first understand the staging area tables in terms of content before understanding how they map to analytical use cases.

There are two broad categories of staging data, regardless of the usecase or the analytical application that requires it:

- 1. **Business Data:** This set of tables captures the actual business events and the resulting state of a bank from those business events. The OLTP systems (or Transactional Systems) capture this information resulting from the execution of the provider's different business processes. Broadly, this information can be categorized as:
 - Events: Business transactions, whether financial or non-financial, represent business happenings (events) that are relevant for analytical purposes. For example a financial transaction by a customer on a current account is a specific event.

Events happen at a specific point in time, and are recorded by OLTP systems. In the staging area model, there are several **transaction** tables that capture this detail – for both financial and non-financial transactions.

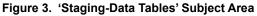
• State: The net effect of business transactions is to change the provider's overall financial/non-financial state. This state information is typically captured by product-specific systems in a Insurance Institution.

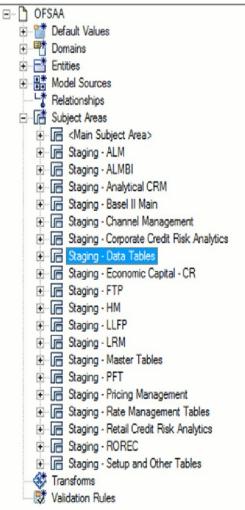
2. Reference/Master Data: Events and state refer to 'business activities' of an Insurance institution. To provide more detail on these, Insurance institution need to capture additional data that provides context for these activities. This data may be variously called as 'reference data' or 'master data', and covers various business dimensions of a given transaction or account. For example – an Insurance institution has a master list of products that it sells to customers (Product Master). Similarly, it has a list of customers (Customer master). These and other lists provide context for each business transaction or account. Insurance Institution typically maintain 'Master' data for this purpose.

With this background, the following lists the key categories of business data and reference data in the staging data model.

Business Data

To view the current set of **business data** tables in the staging area, open the OIDF Staging Area model in the ERwin data modeling tool, and click on subject areas as shown follows. Right click and switch to the 'Staging-Data Tables' subject area.





This provides an ordered, visually grouped list of the business data tables in the current staging area model. Above each group in the diagram is the group name as a label, to categorize the tables, as follows:

Figure 4. Business Data Tables



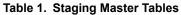
| Group Name | Purpose |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Processors | Tables for Insurance Instruments and Contracts. |
| Transactions | Tables for Transaction/Event level data from the bank's systems. These tables are available by both contract and channel, and there is additionally a set of Transaction Summary tables that contain transaction data in a summarized form required by the Profitability application. |
| Exposures | Exposures are basically contracts on the asset side of the balance sheet. The tables in this category are primarily used by Risk applications. |
| Mitigants | Mitigants are used to address specific types of risk posed by exposures. The tables in this category are primarily used by Risk applications. |
| GL | Tables for information pertaining to the General Ledger. |
| Customer | Consists of Marketing-related Customer activity and plan data relevant to CRM analytics. Note that core customer information is in the Product Processors, and reference data about customers is elsewhere. |
| Rates | Economic indicators, Interest Rates and other information relevant to analytical processing for Risk and Asset Liability Management applications. |

The key groups of business data tables in the model are as follows.

Reference/Master Data

To view the current set of Master/Reference data tables in the staging area, open the OIDF Staging Area model in the ERwin data modeling tool, and open up the subject areas menu on the left hand side, as shown below.

Right click and switch to the 'Staging-Master Tables' diagram to get the list of the master tables currently in staging.



| - |
|-----------------------------------------------|
| Script Templates |
| C [*] Sequences |
| Stored Procedures |
| 🖃 📑 Subject Areas |
| 🗉 🕝 <main area="" subject=""></main> |
| 🕀 🕞 Staging - ALM |
| 🕀 🕞 Staging - ALMBI |
| 🗉 🕞 Staging - Analytical CRM |
| 🛨 🕞 Staging - Basel II Main |
| 🗉 🕞 Staging - Channel Management |
| 🗉 🕝 Staging - Corporate Credit Risk Analytics |
| 🗉 🕞 Staging - Data Tables |
| 🛨 🕞 Staging - Economic Capital - CR |
| 🕀 🕞 Staging - FTP |
| 🗉 🕞 Staging - HM |
| 🕀 🕞 Staging - LLFP |
| 🕀 🕞 Staging - LRM |
| 🗊 🕞 Staging - Master Tables |
| Đ 🕞 Staging - PFT |
| 🗉 🕞 Staging - Pricing Management |
| 🗉 🕞 Staging - Rate Management Tables |
| 🗊 🕞 Staging - Retail Credit Risk Analytics |
| 🗉 🕞 Staging - ROREC |
| 🛨 🕞 Staging - Setup and Other Tables |
| 🐯 Synonyms |
| 🖅 📑 Tables |
| |
| Transforms - |

Similar to the Business Data tables, the '**Staging - Master Tables**' subject area provides a single folder view of all of the reference/master information currently required by the staging area.

Reporting Data Model

The Reporting Data Model is the point where outputs of analytical processing are aggregated for reporting and Business Intelligence (BI) tools.

Similar to the Common Staging Area being the foundation for data provisioning to analytical applications, engines and processes, the Reporting Data Model is the common data store for the outputs of these processes.

Outputs are computed quantitative measures and Key Performance Indicators that involve simple to complex, mathematical and statistical processing using the raw data, which is performed by specialized engines and computational models. In the OIDF design, the Reporting Data Model design ensures that the historical data is maintained.

The key features of the design of the Reporting Area model are as follows:

1. Design

The Reporting Area data model is a dimensional data model. This means that it consists primarily of central fact tables (de-normalized), related to multiple dimension tables, also called a Star Schema. Additionally, the dimension tables are shared across the star schemas in the reporting mode, meaning they are Conformed Dimensions. This means that Drill-across reporting is naturally supported by the OIDF design.

Additionally, in keeping with the key principle of the OIDF, the Reporting Model is organized by use cases to facilitate reporting and BI in a wide variety of areas.

2. Support for multiple scenarios of analysis:

As a result of the 2008 crisis, the Financial Services industry is moving towards scenario-based, forward-looking risk analysis instead of retroactive analysis. The reporting data model has been designed to support scenario analysis of the sort required by financial institutions that need to measure and report risk and performance under a variety of economic scenarios.

To facilitate this, the Oracle Financial Services Advanced Analytical Infrastructure (OFSAAI) provides a Stress Testing framework, allowing risk analysis to be performed under a variety of known scenarios corresponding to different input parameter values to risk models.

The reporting model provides support for this kind of analysis via a Run Dimension – it allows analytical engines to load multiple result sets identified by scenarios, and hence permits reporting related to baseline and stress conditions in economic terms.

3. Support for Cross Functional Reporting

The third critical feature of the Reporting area design is the support for cross-functional reporting.

Typically, Business Intelligence and Reporting Solutions work off a dedicated, purpose-specific data store called a data mart. Data marts are function-specific data stores typically star schemas (for example: Marketing Data Marts, Risk Data Marts, Customer Data Mart), that provide the necessary reporting and analytics relevant to a particular business function in the Insurance Institution.

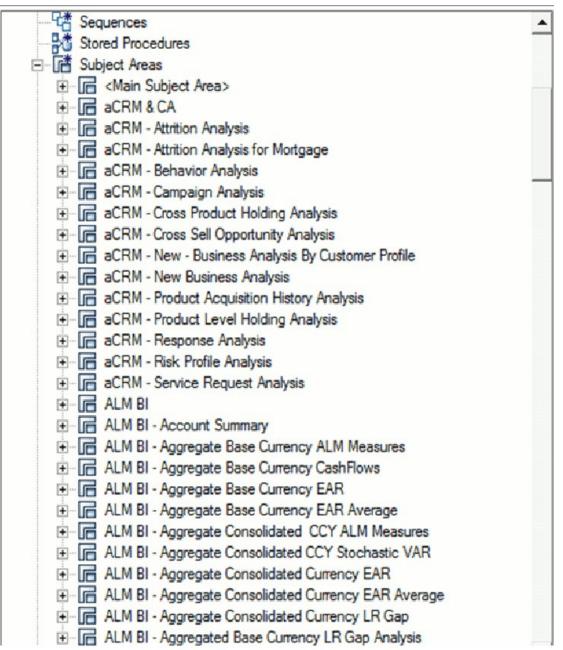
The trend is for cross-functional analytics and reporting. Majority of emerging needs relate to the analytical problems at the intersection of the distinct areas of Risk, Performance, Customer Insight, and Compliance.

Reporting Area Details

Similar to the staging data model, the reporting model is divided into Subject Areas.

These subject areas are visible by clicking on the **Subject Areas** view in the ERwin data modeler tool as show follows.





As can be seen above, the Subject Areas are organized to support detailed level analysis related to a set higher-level analytical reporting solutions.

Within the above higher-level areas, there are over 165 subject areas consisting of star schemas supporting detailed analysis. Each Subject Area typically corresponds to one or possibly more star schemas, depending on the reporting need. There are currently 500+fact and dimension tables in the reporting area. The details of the various naming conventions used in OIDF Data Model are explained in Appendix A. For column-level details, see the Technical Whitepaper on *Data Model Document Generation*, which details how to extract the data dictionary from ERwin section.

OIDF Logical Data Model

The previous sections have discussed the components of the **OIDF Physical Data Model** (or the OIDF Analytical Warehouse model) – this is the actual deployable physical database model that addresses a number of analytical needs out of the box, as illustrated earlier.

The Logical Data Model is a reference data model of the Financial Services Domain, which captures the data created by the key business processes in Financial Services. A reference data model is different from the Physical Data Model in these ways.

| Area | FS LDM | OIDF Physical Model |
|------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Purpose | Generic blueprint of the data roduced by the business processes of a Financial Services institution. | Designed for analytical processing (Risk, Profitability, Customer Insight). |
| Format/Structure | Entity Relationship Diagrams organized into key Top Level subject areas. | Physical Tables/Columns Definitions. |
| Usage | Cannot be directly used – needs to be used within a physical database design step to arrive at a database schema. | Readily deployable. |
| Scope | All the key business processes/activities and their supporting reference data requirements. | The business and reference data required for a set of analytical use cases. However, can be extended to serve other needs. |

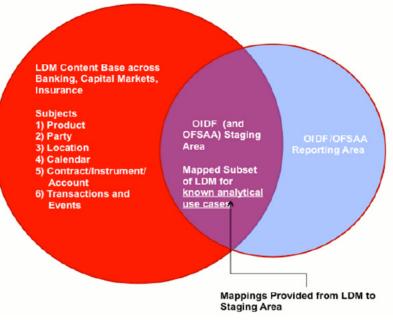
Relationship to the OIDF Physical Model

The coverage of the OIDF LDM in terms of core business processes is as follows:

- Policy
- Claims
- Fund Management

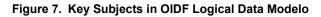
The OIDF physical data model should be seen as a **deployable**, **physicalized subset** of this reference data model for known analytical use cases spanning Risk, Experience, and Compliance, as illustrated below.

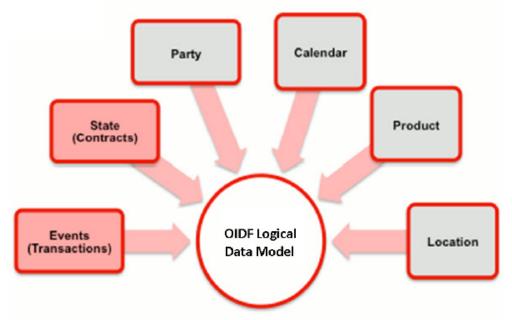
Figure 6. OIDF Physical Data Model



OIDF LDM Content Details

The OFS LDM is organized into a small set of high-level subject areas, each of which represents a key category of data that is produced by the business processes in an Insurance institution.





Within the above subject areas, the FS LDM has 800+ entities. The various naming conventions used in OIDF Logical Data Model are explained in Appendix A. For column-level details, see the Technical Whitepaper on *Data Model Document Generation*, which details how to extract the data dictionary from ERwin section.

Mapping from Logical Data Model to OIDF Staging Area

In addition to the data dictionary and download specifications, the OIDF also provides a mapping between the relevant columns in the OIDF physical staging area model and the OIDF Logical Data Model. These mappings are currently made available as Excel spreadsheets, and part of the OIDF package.

Following are the links to excel spreadsheets. Click the corresponding spreadsheet link that you want to view.

- LDM_Staging_mapping_Accounting
- LDM_Staging_mapping_Application
- LDM_Staging_mapping_Campaign
- LDM_Staging_mapping_Campaign_7.3
- LDM_Staging_mapping_Claim
- LDM_Staging_mapping_Collateral
- LDM_Staging_mapping_Collections and Recovery
- LDM_Staging_mapping_Contract
- LDM_Staging_mapping_Credit_Card_7.3

- LDM_Staging_mapping_Geography
- LDM_Staging_mapping_Instrument
- LDM_Staging_mapping_Organization
- LDM_Staging_mapping_Party
- LDM_Staging_mapping_Product
- LDM_Staging_mapping_Transaction

Note: Column description updated as 'deprecated' is dropped from the model in the next major release.

CHAPTER 3 Dimension Loading Process

This chapter provides information about Dimension Loading Process in the Oracle Insurance Data Foundation application.

This chapter includes the following topics:

- Dimension Table Population
- Overview of SCD Process
- Prerequisites
- Tables Used by the SCD Component
- Executing the SCD Component
- Checking the Execution Status

Dimension Table Population

Data Foundation solutions use the SCD component to handle dimensional data changes.

Overview of SCD Process

A Slowly Changing Dimension (SCD) is a dimension that stores and manages both current and historical data over time in a data warehouse. SCDs are dimensions that have data that changes slowly, rather than changing on a time-based, regular schedule. It is considered and implemented as one of the most critical ETL tasks in tracking the history of dimension records. There are three types of SCDs and you can use Warehouse Builder to define, deploy, and load all three types of SCDs.

Type 1 SCDs - Overwriting

The Type 1 methodology overwrites old data with new data, and therefore does not track historical data. This is useful for making changes to dimension data.

In this example, N_PRODUCT_SKEY is the surrogate key column which is a unique key for each record in the dimension table. V_PRODUCT_NAME is the product name. D_START_DATE indicates the date from which this product record is valid.

| N_PRODUCT_ SK EY | V_PRODUCT_ NAME | D_START_DATE | | F_LATEST_RECORD_ INDICATOR |
|---------------------|--------------------|--------------|------------|-------------------------------|
| 1 | PL | 5/31/2010 | 12/31/9999 | Y |

D_END_DATE indicates the date till which this product record is valid.

F_LATEST_RECORD_INDICATOR with value 'Y', which indicates this is the latest record in the dimension table for this product and 'N' indicates it is not. If the V_PRODUCT_NAME column is set as a Type 1 SCD column and if there is a change in the product name to 'Personal Loan' from 'PL' in the above example; in the next processing period, when SCD is executed for the new processing period, the record in the above example changes to:

| N_PRODUCT_ SK EY | V_PRODUCT_ NAME | D_START_DATE | D_END_DAT E | F_LATEST_RECORD_ INDICATOR |
|---------------------|--------------------|--------------|-------------|-------------------------------|
| 1 | Personal Loan | 6/30/2010 | 12/31/9999 | Y |

Type 2 SCDs - Creating Another Dimension Record

The Type 2 method tracks historical data by creating multiple records for a given natural key in the dimensional tables with separate surrogate keys. With Type 2, the historical changes in dimensional data are preserved. In the above example for the change in product name from 'PL' to 'Personal Loan' if history has to be preserved, then the V_PRODUCT_NAME column has to be set as Type 2 when SCD is processed for the processing period and the change inserts a new record as shown in the following example:

| N_PRODUCT_ SK EY | V_PRODUCT_ NAME | D_START_DATE | D_END_DAT E | F_LATEST_RECORD_ INDICATOR |
|---------------------|--------------------|--------------|-------------|-------------------------------|
| 1 | PL | 5/31/2010 | 12/31/9999 | Ν |
| 2 | Personal Loan | 6/30/2010 | 12/31/9999 | Y |

A new record is inserted to the product dimension table with the new product name. The latest record indicator for this is set as 'Y', indicating this is the latest record for the personal loan product. The same flag for the earlier record is set to 'N'.

Type 3 SCDs - Creating a Current Value Field

A Type 3 SCD stores two versions of values for certain selected level attributes. Each record stores the previous value and the current value of the selected attribute.

When the value of any of the selected attributes changes, the current value is stored as the old value and the new value becomes the current value.

For more information on SCDs, see:

• Oracle Data Integrator Best Practices for a Data Warehouse at

http://www.oracle.com/technetwork/middleware/data-integrator/overview/odi-bestpractices-datawarehouse-whi-129686.pdf

• Oracle® Warehouse Builder Data Modeling, ETL, and Data Quality Guide at

http://docs.oracle.com/cd/E11882_01/owb.112/e10935.pdf

http://docs.oracle.com/cd/E14072_01/owb.112/e10935.pdf

Additional online sources include:

- http://en.wikipedia.org/wiki/Slowly_changing_dimension
- http://www.oracle.com/webfolder/technetwork/tutorials/obe/db/10g/r2/owb/owb10gr2_gs/owb/lesson3/slowlychangingdime nsions.htm
- http://www.oraclebidwh.com/2008/11/slowly-changing-dimension-scd/
- http://www.informationweek.com/news/software/bi/showArticle.jhtml?articleID=204800027&pgno=1

• http://www.informationweek.com/news/software/bi/showArticle.jhtml?articleID=59301280

An excellent published resource that covers SCD in detail is "The Data Warehouse Toolkit: The Complete Guide to Dimensional Modeling" by Ralph Kimball and Margy Ross.

The SCDs used in Data Foundation solutions are listed in the Oracle Insurance Services Data Foundation - SCD Metadata spreadsheet under Technical Metadata for OIDF 8.0.4.0.0.

Prerequisites

- 1. The SCD executable should be present under <installation home>ficdb/bin directory. The file name is scd.
- 2. The user executing the SCD component should have execute rights on the file mentioned as prerequisite in Executing the SCD Component.
- 3. The setup tables accessed by SCD component are SYS_TBL_MASTER and SYS_STG_JOIN_MASTER.

SYS_TBL_MASTER stores the information like which is the source stage table and the target dimension tables. The source sometimes can be the database views which can be simple or a complex view.

SYS_STG_JOIN_MASTER stores the information like which source column is mapped to which column of a target dimension table. It makes use of data base sequence to populate into surrogate key columns of dimension tables.

Tables Used by the SCD Component

The database tables used by the SCD component are:

• SYS_TBL_MASTER

The solution installer populates one row per dimension for the seeded dimensions in this table.

| Column Name | Data Type | Column Description |
|--------------|--------------------|--------------------------------------------------------|
| MAP_REF_NUM | NUMBER(3) | The Mapping Reference Number for this unique |
| | NOT NULL | mapping of a Source to a Dimension Table. |
| TBL_NM | VARCHAR2(30) | Dimension Table Name. |
| | NOT NULL | |
| STG_TBL_NM | VARCHAR2(30) | Staging Table Name. |
| | NOT NULL | |
| SRC_PRTY | SRC_PRTY NUMBER(2) | Priority of the Source when multiple sources are |
| | NULL | mapped to the same target. |
| SRC_PROC_SEQ | NUMBER(2) | The sequence in which the various sources for the |
| | NOT NULL | DIMENSION is taken up for processing. |
| SRC_TYP | VARCHAR2(30) | The type of the Source for a Dimension, that is, |
| | NULL | Transaction Or Master Source. |
| DT_OFFSET | NUMBER(2) | The offset for calculating the Start Date based on the |
| | NULL | Functional Requirements Document (FRD). |
| SRC_KEY | NUMBER(3) | |
| | NULL | |

| MAP_REF_NUM | 6 |
|--------------|----------------|
| TBL_NM | DIM_LOB |
| STG_TBL_NM | STG_LOB_MASTER |
| SRC_PRTY | |
| SRC_PROC_SEQ | 23 |
| SRC_TYP | MASTER |
| DT_OFFSET | 0 |
| SRC_KEY | |

Sample Data: This is the row put in by the solution installer for the Line of Business dimension.

Note: For any new dimension added, a row will have to be inserted to this table manually.

• SYS_STG_JOIN_MASTER

The solution installer will populate this table for the seeded dimensions.

| Column Name | Data Type | Column Description |
|--------------|--------------|----------------------------------------------------------------|
| MAP_REF_NUM | NUMBER(3) | The Mapping Reference Number for this unique mapping of a |
| | NOT NULL | Source to a Dimension Table. |
| COL_NM | VARCHAR2(30) | Name of the column in the Dimension Table. |
| | NOT NULL | |
| COL_TYP | VARCHAR2(30) | Type of column. The possible values are given in the following |
| | NOT NULL | paragraph. |
| STG_COL_NM | VARCHAR2(60) | Name of the column in the Staging Table. |
| | NULL | |
| SCD_TYP_ID | NUMBER(3) | SCD type for the column. |
| | NULL | |
| PRTY_LOOKUP_ | CHAR(1) | Column to determine whether Lookup is required for Priority of |
| REQD_FLG | NULL | Source against the Source Key Column or not. |
| COL_DATATYPE | VARCHAR2(15) | The list of possible values are VARCHAR, DATE, NUMBER |
| | NULL | based on the underlying column datatype. |
| COL_FORMAT | VARCHAR2(15) | Column format. |
| | NULL | |

The possible values for column type (the COL_TYPE column) in SYS_STG_JOIN_MASTER are:

1.PK – Primary Dimension Value (can be multiple for a given "Mapping Reference Number")

2.SK – Surrogate Key

3.DA – Dimensional Attribute (can be multiple for a given "Mapping Reference Number")

4.SD – Start Date

5.ED – End Date

6.LRI - Latest Record Indicator (Current Flag)

7.CSK – Current Surrogate Key

8.PSK - Previous Surrogate Key

9.SS – Source Key

10.LUD - Last Updated Date / Time

11.LUB – Last Updated By

Sample Data: This is the row put in by the solution installer for the Line of Business dimension.

| MAP_REF_NUM | 6 |
|----------------------|------------|
| COL_NM | V_LOB_CODE |
| COL_TYP | РК |
| STG_COL_NM | V_LOB_CODE |
| SCD_TYP_ID | |
| PRTY_LOOKUP_REQD_FLG | N |
| COL_DATATYPE | VARCHAR |
| COL_FORMAT | 61 |

Note: For any new dimension added, the column details will have to be inserted to this table manually.

• **DIM_<dimensionname>_V**: The database view which SCD uses as the source.

Example: Dim_Bands_V

These views come as part of install for the dimensions seeded with the application.

Note: For any new dimension added, a view will have to be created similar to DIM_BANDS_V.

• **DIM_<dimensionname>**: Output table to which SCD writes the dimension data.

A sequence should be added for every user-defined dimension.

Example:

Executing the SCD Component

To execute the SCD component from Operations module of OFSAAI, create a batch according to the following steps:

Note: For a more comprehensive coverage of configuration and execution of a batch, see *Oracle Financial Services Analytical Applications Infrastructure User Guide.*

- From the Home menu, select **Operations**, then select **Batch Maintenance**.
- Click New Batch ('+' symbol in Batch Name container) and enter the Batch Name and Description.
- Click Save.
- Select the Batch you created in the earlier step by clicking the check box in the Batch Name container.
- Click **New Task** ('+' symbol in Task Details container).
- Enter the Task ID and Description.

- Select **Run Executable**, from the Component ID list.
- Click **Parameters.** Select the following from the Dynamic Parameters List and then click **Save**:
 - Datastore Type: Select the appropriate datastore from the list
 - Datastore Name: Select the appropriate name from the list
 - IP address: Select the IP address from the list
 - Executable: scd, <map ref num>

Example:

scd, 61 (see the following sections for details).

- Wait: When the file is being executed you have the choice to either wait till the execution is complete or proceed with the next task. Click the list box of the field provided for Wait in the Value field to select 'Yes' or 'No'. Clicking **Yes** confirms that you wish to wait for the execution to be complete. Clicking **No** indicates that you wish to proceed.
- **Batch Parameter**: Clicking **Yes** would mean that the batch parameters are also passed to the executable being started; else the batch parameters will not be passed to the executable.

Important: Always select Y in Batch Parameter.

For the Parameter Executable earlier mentioned, the map ref num values are:

- -1 (if you want to process all the dimensions). The *Executable* parameter mentioned earlier would be scd, -1.
- If you want to process for a single dimension, query the database table SYS_TBL_MASTER and give the number in the map ref num column for the dimension you want to process. These are the ones which come seeded with the install.
- Execute the batch from Batch Execution by choosing the batch created following the steps mentioned in the preceding sections for a date.

Note: A seeded batch <Infodom>_SCD is provided which has all the required dimensions as different tasks that are part of SCD.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen. You can access this from the Left Hand Side (LHS) menu as follows:

From the Home menu, select Operations, then select Batch Monitor.

Note: For a more comprehensive coverage, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The ICC execution log can be accessed on the application server in the following directory: \$FIC_DB_HOME/log/ficgen.

The file name has the batch execution ID.

Sample: /dbfiles/home/oracle/OFSAAI/ficdb/log/ficgen

The detailed SCD component log can be accessed on the application server in the directory \$FIC_HOME, go one folder up from there and then access the following:

path /ftpshare/<infodom name>/logs

The file name has the batch execution ID.

Sample: /dbfiles/home/oracle/ftpshare/OFSAADEMO/logs

Check the .profile file in the installation home if you are not able to find the paths mentioned earlier.

LOAD DIM TABLES THROUGH SCD

Batch <Infodom>_SCD is introduced with 177 tasks under it. These 177 tasks represent the 177 SCD processes where different Staging tables are the Source and Dimension tables are the Targets. The required SCDs are introduced into SYS_TBL_MASTER table, and subsequently into SYS_STG_JOIN_MASTER table.

Depending on the requirement by an application, a task can be excluded or included from the batch execution.

LOAD POLICY TABLES THROUGH INSURANCE SCD

Batch <Infodom>INSURANCE_SCD is introduced with 9 tasks under it. These 9 tasks represent the 9 SCD processes where different Staging tables are the Source and Dimension tables are the Targets. The required SCDs are introduced into SYS_TBL_MASTER table, and subsequently into SYS_STG_JOIN_MASTER.

Depending on the requirement by an application, a task can be excluded or included from the batch execution. The SCD sheet includes the SCDs used in INSURANCE_SCD batch.

LOAD KEY DIMENSIONS USING DRMLOADER AND HIERARCHY FLATTENING

The Dimension Loader functionality in OIDF, enables you to load Dimension tables such as DIM_ORG_UNIT, DIM_GL_ACCOUNT, DIM_COMMON_COA, DIM_PRODUCT, and DIM_ORG_STRUCTURE.

Loading Data from STG_INTF Tables to DIM_INTF Tables

The following tables are part of Staging. Dimension data is stored in the following set of tables:

- STG _<DIMENSION>_B_INTF: Stores leaf and node member codes within the dimension.
- STG_<DIMENSION>_ TL_INTF: Stores names of leaf and node and their translations.
- STG_<DIMENSION>_ ATTR_INTF: Stores attribute values for the attributes of the dimension.
- STG_<DIMENSION>_ HIER_INTF: Stores parent-child relationship of members and nodes that are part of hierarchies.
- STG_HIERARCHIES_INTF: Stores master information related to hierarchies. Data present in the above set of staging dimension tables are loaded into the below set of dimension tables.
- DIM_<DIMENSION>_ B: Stores leaf and node member codes within the dimension.
- DIM_<DIMENSION>_TL: Stores names of leaf and node and their translations.

- DIM <DIMENSION> ATTR: Stores attribute values for the attributes of the dimension.
- DIM_<DIMENSION>_HIER: Stores parent-child relationship of members and nodes that are part of hierarchies.
- REV HIERARCHIES: Stores hierarchy related information.
- REV HIERARCHY LEVELS: Stores levels of the hierarchy.

For more information on viewing the structure of staging tables, see the Oracle Financial Services Analytical Applications Data Model Data Dictionary.

Staging tables are present for all key dimensions that are configured within the OFSAAI framework.

The Dimension IDs used for key dimensions are:

| Dimension ID | Dimension Table | Staging Tables |
|--------------|-------------------|--------------------------|
| 1 | DIM_ORG_UNIT | STG_ORG_UNIT_**_INTF |
| 2 | DIM_GL_ACCOUNT | STG_GL_**_INTF |
| 3 | DIM_COMMON_COA | STG_COMMON_COA_**_INTF |
| 4 | DIM_PRODUCT | STG_PRODUCTS_**_INTF |
| 5 | DIM_ORG_STRUCTURE | STG_LEGAL_ENTITY_**_INTF |

Executing The Loading Procedure using Batch Framework

The batch for Key Dimension Loader can be executed by executing the task (Task for Loading Data from DRM) present in the seeded batch <Infodom>__ POP_DATALOAD_DIM.

Below are the input parameters:

- pDIMENSIONID: This is the dimension ID.
- pSynchFlag: This parameter is used to identify if a complete synchronization of data between staging and fusion table is required. The default value is 'Y'.

For more details refer to Dimension Loaders Section, in Chapter 4 Data Loaders, of the Oracle Financial Services Analytical Applications Data Model Utilities Guide.

Executing The Hierarchy Flattening Procedure using Batch Framework

The batch for Dimension Hierarchy flattening can be executed by executing the task (DT for DRM Dimension Hierarchy Flattening) present in the seeded batch <Infodom> POP HIERARCHY FLATTENING.

Below are the input parameters:

- pDIMENSIONID: This is the dimension ID.
- pHierarchyId: Enter the Hierarchy ID. If all the hierarchies belonging to a dimension are to be processed, then provide NULL as the parameter value. Else, provide the System Identifier of the hierarchy that must be transformed.

For more details refer to Hierarchy Transformation Section, in Chapter 4 Data Loaders, of the Oracle Financial Services Analytical Applications Data Model Utilities Guide.

Executing The SCD for Loading Key Dimensions using Batch Framework

The batch for Key Dimension Loading into final Dimension tables can be executed by executing the seeded batch <Infodom>_DRM_HIER_FLAT_SCD.

Improve SCD Performance

SCD performance can be improved by providing hints and session alter statements.

This requires the presence of the following four columns in SYS_TBL_MASTER:

- merge_hint
- select_hint
- session_enable_statement
- session_disable_statement

These columns are present in the OFSAAI versions 7.3.2.4.0 and higher. If these have to be used in OFSAAI versions 7.3.2.2.0 or 7.3.2.3.0 and higher, execute the following SQL queries:

```
ALTER TABLE SYS_TBL_MASTER ADD MERGE_HINT VARCHAR2(255)
/
ALTER TABLE SYS_TBL_MASTER ADD SELECT_HINT VARCHAR2(255)
/
ALTER TABLE SYS_TBL_MASTER ADD SESSION_ENABLE_STATEMENT VARCHAR2(255)
/
ALTER TABLE SYS_TBL_MASTER ADD SESSION_DISABLE_STATEMENT VARCHAR2(255)
/
```

During upgrade to OFSAAI 7.3.2.4.0, ensure to backup SYS_TBL_MASTER table and to drop the preceding four columns, if these scripts are executed in any of the OFSAAI versions prior to 7.3.2.4.0. Otherwise, an upgrade to OFSAAI 7.3.2.4.0 may throw an error, since the columns are existing.

- For improving performance, hints for the MERGE query which is generated internally by the SCD can be provided under MERGE_HINT. Session alters can be mentioned under SESSION_ENABLE_STATEMENT and SESSION_DISABLE_STATEMENT columns.
- SESSION_ENABLE_STATEMENTs must be executed before the SCD MERGE and SESSION_DISABLE_STATEMENTs must be executed after the SCD MERGE.
- Since all the tasks under the SCD batch for DIM_ACCOUNT works on the same target, the SESSION_DISABLE_STATEMENTs in SYS_TBL_MASTER cannot be provided when tasks are executed. In this case, there can be a separate SQL file to contain all the SESSION_DISABLE_STATEMENTs to be executed once after all the tasks in the SCD are done. The SESSION_DISABLE_STATEMENT holds a null in SYS_TBL_MASTER table.
- SESSION_ENABLE_STATEMENTs are required to be mentioned only for the first task in the batch. Here the target is the same for all the tasks under a batch. In case any of the tasks are to be executed separately, then the SESSION_ENABLE_STATEMENTs must be mentioned for any one of the tasks which is included in the batch for the execution.

Example:

MERGE_HINT and SESSION_ENABLE_STATEMENT in SYS_TBL_MASTER.

| Table Name | Stage Table Name | Merge Hint | Session Enable Statement |
|-------------|----------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| DIM_ACCOUNT | STG_LOAN_CONTRACTS_V | /*+ parallel (DIM_ACCOUNT,10) */ | "alter session enable parallel DML query", "alter table DIM_ACCOUNT nologging parallel 10" |

• Execute the SQL file with all the SESSION_DISABLE_STATEMENTs, after the successful completion of the SCD batch.

CHAPTER 4 Legal Entity Consolidation

Introduction

The reporting bank may be a part of a financial group that has multiple legal entities such as parent or child entities (subsidiaries) under its name. User can select the entity for which processing is to happen, and whether a 'Solo' or 'Consolidation' execution is to be done. Select these options using the Run Execution screen, but if it is executed using RRF execution then these options have to setup using the rule 'Capital Consolidation Level Selection' in the process 'CAPITAL_CONSOLIDATION'.

CAPITAL_CONSOLIDATION is the first process to be added in all the runs defined through Run Rule Framework except the ones for staging data population. Run Management screen selects this process by default.

Run Parameters Assignment:

Basel Accord mentions about different approaches for calculating RWA. Run Management framework in the product allows the reporting bank to define and execute a Run by selecting a combination of different Basel II approaches for RWA computation.

Run parameter Assignment is also part of Capital Consolidation process. The rule 'Run Definition User Defined Run Param Assignment' is used to assign the run parameters in case of a run executed through Run Rule Framework. But if the execution is through run management, the parameters are populated based on the run defined in the run definition screen.

Consolidation Procedures

The Consolidation procedures are as follows:

- Combine like items of assets, liabilities, equity, income, expenses, and cash flows of the parent with those of its subsidiaries.
- Offset (eliminate) the carrying amount of the parent's investment in each subsidiary and the parent's portion of equity of each subsidiary (IFRS 3 Business Combinations explains how to account for any related goodwill).
- Eliminate in full intra group assets and liabilities, equity, income, expenses and cash flows relating to transactions between entities of the group (profits or losses resulting from intra group transactions that are recognised in assets, such as inventory and fixed assets, are eliminated in full).

Types of Consolidation

The types of Consolidation are as follows:

- Simple Aggregation: As name suggests simply aggregate across entities without any elimination.
- Full Consolidation: Aggregate and eliminate Intra group transactions.
- **Proportionate Consolidation**: Aggregate and eliminate Intra group transactions and balances reflecting consolidation percentage owned by parent in subsidiary.

Consolidation Activities

Scope of consolidation is the list of Entities which participate in consolidation. Legal Entity Structure is looked through Organization Structure Dimension. This stores parent child relationship and is stored only once. While moving the data, Legal Entity can move related entities to processing/reporting area. Legal structure is finalized once, and this structure only stores one parent child relationship.

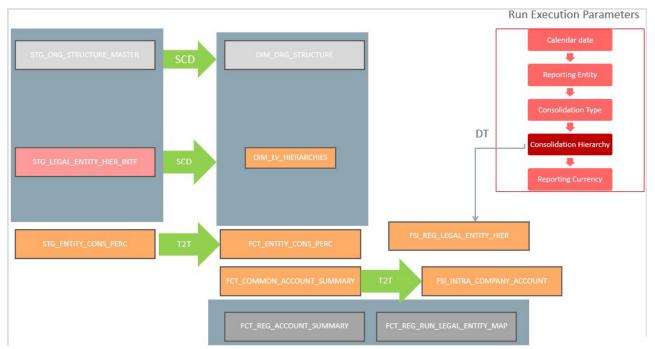


Figure 1. Data Flow

CHAPTER 5

Executing Run through Run Management

Introduction

Starting from OIDF 8.0.3.1.0 release, we are packaging two out-of-the-box Runs for data loading. Same can be executed through the Run Management screen. The following are the two runs that are packaged as part of the installer.

- Oracle Insurance Data Foundation Sourced Run: This Run can be executed once per day for Data Movement from Staging Area to Results Area for Non-RUN SKEY tables.
- Oracle Insurance Data Foundation Execution Run: This Run can be executed any number of times per day with each unique RUN SKEY for Data Movement in Run enabled tables.

Summary and Details Page

After navigating to **Run Management > Run Management**, a summary window is displayed showing all the defined Runs. By selecting a Run or by using search criteria, you can control the set of Runs that are displayed. This window displays the list of runs defined in the Run Rule Framework (RRF) except those with Immediate Execution Option **Yes** in the grid.

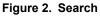
Navigation within the Summary Page

When you first navigate to the Run Management summary window, the Runs defined in the RRF are presented in a summary grid. The Run Management summary window has two sections:

- Search
- List of Runs

Search Section

Among other properties, each Run possesses a segment, a Run Name, and a Run Type. You can search on any of these properties in the Search section.



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| pplications Object Administration System Configuration & Identity Iv | anagement | | | | | | | | |
| Select Applications Financial Services Data Foundation | Financial Services Data Foundation | > Run Management > R | in Management | | | | | | |
| 4 Di Financial Services Data Foundation | | Run Management Summary | | | | | | | |
| Grinancial Services Data Foundation Ba Data Model Management | * Search | A Search | | | | | | | |
| E Data Management Framework | Segment | FSDFSEG | × | | | Run Name | | | |
| Unified Analytical Metadata Rule Run Framework | Run Type | | ~ | | | | | | |
| Run Management | | | | | | | | | |
| B Run Management | * List of Runs | | | | | | 1 | ■ <u>(</u> () () () () () () () () () () () () () (| 2 of 2 |
| B Operations | Run Name | dation Execution Due | Run Type Ci BASELINE RUN ST | reated By | Created Date 12/09/2016 | Last Modified By OFSAD | Last Modified Date 12/09/2016 | V | |
| E Settings | Financial Services Data Foun | | BASELINE RUN ST | | 12/09/2016 | | - | _ | |
| Metadata Browser | | | | | | | | | |
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List of Runs Section

The List of Runs section presents a grid containing the Runs that meet your search criteria. This summary grid offers several icons that allow you to perform different functions when a Run is selected.

To select a Run, click the check box in the first column of the grid.

- View: Selecting a single row out of the grid enables the View icon. Clicking the View icon allows you to view the detailed definition of a Run on a read-only basis. The View icon is only enabled when a single Run is selected.
- **Run Default Parameters**: Selecting a single row out of the grid enables you to define the default parameters of a Run.
- **Run Execution Parameters**: Selecting a single row out of the grid enables you to define the execution parameters of a Run.
- **Run Execution Summary**: Selecting a single row out of the grid enables you to view the status of the Run executed in the Run Execution parameters window.

List of Runs Summary Grid

The following columns categorize each Run in the summary grid:

- **Run Name**: Displays the short name of the Run.
- Run Type: Displays the type of Run, Simulation or Baseline Run.
- **Created By**: Displays the name of the User who defined the Run.

- Creation Date: Displays the date on which the Run was created.
- Last Modified By: Displays the name of the user who has performed any modifications to the Original Run details.
- Last Modified Date: Displays the date on which the Original Run details were modified.

Navigation within Run Default Parameters Window

Click the **Run Default Parameters** icon on the navigation bar of the **Run Management Summary** Window to input the Run level parameters. The Run Parameters window is displayed.

Figure 3. Run Management Summary

| inancia | I Services Data Foundation > Run Manage | ement > Run M | lanagement | | | | | | | | | | |
|---------|----------------------------------------------|---------------|--------------|------------|--------------|---------|-----------|--------------------|-----|------|------------------|-------------|--|
| | Run Management Summary | | | | | | | | | | | | |
| * Se | earch | | | | | | | | | | | | |
| Segm | nent | FSDFSEG | ~ |] | | | Run Name | | | | | | |
| Run 1 | Гуре | | ~ |] | | | | | | | | | |
| × Li | st of Runs | | | | | | | | 1 1 | 「水水」 | ≫ ₩1 to 2 of 2 | 10.97 F. 19 | |
| | Run Name | | Run Type | Created By | Created Date | Last Mo | dified By | Last Modified Date | A | | | | |
| | Financial Services Data Foundation Execution | n Run | BASELINE RUN | SYSADMN | 12/09/2016 | OFSAD | | 12/09/2016 | | | | | |
| | Financial Services Data Foundation Sourced F | Run | BASELINE RUN | SYSADMN | 12/09/2016 | - | | - | | | | | |

Note: To modify or view the parameters, the Modify Run Parameters role should be mapped to that relevant user profile.

This window consists of two sections Run Details and Run Execution Parameters.

Run Details Section

This section displays the name of the Run which is a read-only value.

Run Execution Parameters Section

In this section you can update the following:

- **Reporting Currency**: Reporting Currency Code parameter is used for calculation of amounts in Reporting Currency during Data Population.
- Legal Entity: Legal Entity Code parameter is used for identifying the legal entity, which is used for the Run.
- **Consolidation Type**: Consolidation Type parameter is used for selecting legal entities on a solo or consolidation basis. In a solo run, only the selected legal entity will be used. In a consolidated run, along with the selected legal entity, all its child legal entities are also used.
- **Consolidation Hierarchy**: Legal Entity Hierarchy is used for selecting the required hierarchyfor the consolidated run. This parameter is not required for solo run.

| * 🚣 Run Details | | | | | | | | |
|---------------------------|--------------|---------------------------------------------|--------------------|------------|--|--|--|--|
| lun Name | | Oracle Insurance Data Four Execution Run | ndation | | | | | |
| * 💑 Run Execution Para | | | | | | | | |
| | meters | | | | | | | |
| Reporting Currency * | | | | | | | | |
| egal Entity | | | | | | | | |
| Consolidation Type | | Consolidated | Consolidated | | | | | |
| Consolidation Hierarchy | | | | | | | | |
| TC MIS Date * | C MIS Date * | | | | | | | |
| Run Execution Description | | | | | | | | |
| | | | | | | | | |
| | | Save Exe | Close | | | | | |
| * Audit Panel | | | | | | | | |
| Created By | SYSADMN | | Created Date | 12/09/2016 | | | | |
| Last Modified By | SYSADMN | | Last Modified Date | 12/09/2016 | | | | |

Before proceeding further, to ensure that you do not lose the updated data, click the Save button.

Note: To get the values for Reporting Currency parameter and Legal Entity parameter, you need to save the following hierarchies under Save Metadata window:

- Legal Entity Code for Run (HOIDF001)
- Reporting Currency Code for Run (HOIDF002)
- Legal Entity Hierarchy for Run (HOIDF003)
- User Group Hierarchy (H_GROUP)

Note: For further details on Save Hierarchy, see Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack 8.0.4.0.0 on OHC.

The values selected for reporting currency and Legal entity for the selected Run will be shown as the default selected value in the Run Execution Parameters screen.

Navigation within Run Execution Parameters Window

Click the **Run Execution Parameters** icon on the navigation bar of the **Run Management Summary** window. The **Run Execution Parameter** window allows you to enter and save the Run execution parameters.

Figure 4. Run Details

| Run Name | | Financial Services Data Foundation Sourced Run | | | | | |
|--------------------|----------------|---------------------------------------------------|--------------------|------------|--|--|--|
| * 🛱 Dun Eve | cution Paramet | are | | | | | |
| ~ BE RUILEXC | cution ratamen | | | | | | |
| Reporting Currency | * | USD | | | | | |
| Legal Entity | | ОТН | | | | | |
| FIC MIS Date * | | 23/12/20 | 0 | | | | |
| Run Execution Des | cription | Source Run | | | | | |
| Audit Panel | | Save | Execute Close | | | | |
| | SYSADMN | | Created Date | 12/09/2016 | | | |
| Created By | STOADMIN | | Created Date | 12/09/2010 | | | |
| | | | Last Modified Date | | | | |

The Run Execution Parameters window consists of two sections Run Details and Run Execution Parameters.

Run Details Section

This section displays the name of the Run which is a read-only value.

Figure 5. Run Details

| * 🏭 Run Details | | |
|-----------------|---------------------------------------|--|
| Run Name | Reconciliation Difference Calculation | |

Run Execution Parameters Section

The following Run execution parameters can be updated:

- **Reporting Currency**: Reporting Currency Code parameter is used for calculation of amounts in Reporting Currency during Data Population.
- Legal Entity: Legal Entity Code parameter is used for identifying the legal entity, which is used for the Run.

- FIC MIS Date: Enter the extraction date in this field.
- Run Execution Description: Enter a longer description of the Run.

Note: To get the values for Reporting Currency parameter and Legal Entity parameter, you need to save the following hierarchies under Save Metadata window:

- Legal Entity Code for Run (HFSDF001)
- Reporting Currency Code for Run (HFSDF002)

By clicking the **Save** button; a batch with the defined Run execution parameters is created. The batch created can be executed from the **Batch Execution** window.

By clicking the **Execute** button, a batch with the defined Run execution parameters is created and executed immediately. Status of the executed run can be seen in **Batch Monitor** screen or **Run Execution Summary** window.

Note: For further details on Save Hierarchy and Batch Execution, see *Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack 8.0.4.0.0* on OHC. To execute a Run, the execute run role should be mapped to your user profile. Currently, the users mapped under FSDF Admin or FSDF Operator User Groups automatically have this role.

Navigation within Run Execution Summary Page

Select a Run from the Run Management Summary page and click the Run Execution Summary icon to display the Run Execution Summary window where the following sections are displayed.

Interest Barriers bas Fondering In 0 Interest Barriers bas Fondering In 0 Interest Barriers bas Fondering Interest Barriers b

Figure 6. Run Execution Summary

This section consists of the two sections Run Execution Summary and Run Execution Details.

Run Execution Summary Section

The Run Execution Summary displays the following details:

- **Run Name**: Displays the name of the Run.
- Run Type: Displays the type of Run, baseline or Simulation.
- **Run ID**: Displays the Run Execution ID.

Run Execution Details Section

The **Run Execution Details** section presents a grid containing all of the executions of Run and status of a particular execution of the Run. The menu bar in this grid offers several icons that allow you to perform different functions when a Run Execution is selected. To select a Run Execution, click the check box in the first column of the grid. More than one Run Execution can be selected at a time but this will cause some of the icons to become disabled.

- **Parameter details**: Click this icon to view the Run execution and Run default parameter details in read-only mode.
- **Copy**: Click **Copy** icon, to copy the parameters as defined in the **Run Execution Parameter** window to create a new batch.
- **Execute**: Click **Execute** icon to trigger the batch which has been created from the Run Execution Parameter window. The status of the triggered batch is displayed. In the Execution Summary page, multiple selections of the execution ids are available to trigger a batch.
- **Request Report Flag**: To request for a Report Flag, select a Run Execution ID in the **Run Execution Summary** page and click the **Request for Reporting Execution** icon. A dialog box will appear for you to input your comments. Click **Submit** and the status of this Run is displayed in the **Report Flag** section. Only a successful execution can be requested for reporting. For the selected Run and Execution date, there can be only one reporting flag.
- Override Report Flag: Any reporting execution can be overwritten with another execution. Select a successfully triggered batch in the **Run Execution Summary** page. The **Override Report Flag** icon is enabled, if an execution is already marked as a **Report Flag**. You can override the execution by updating your comments. This should be approved by the approver and the procedure is similar to the procedure detailed in the **Approve Report Flag** section.
- Approve Report Flag: After submitting the Reporting Run in the earlier section, the Approve Report Flag icon is enabled. On clicking the icon a dialog box with the User Comments and Approver Comments is displayed. The Approver can update the comments in the Approver Comments field and then click the Approve or Reject button accordingly.

Run Execution Grid

The Run Execution Details displays the following details:

- **Run Skey**: Displays the Run skey of an individual execution.
- Run Execution ID: Displays the execution ID of the Run.
- FIC MIS DATE: Enter the extraction date in this field.
- Execution Status: Displays the status of the execution which is failed or complete.
- **Execution Date**: Displays the date when the Run was executed.
- **Time of Execution**: Displays the time when the Run was executed.

CHAPTER 6 Policy Dimension Population

This chapter provides information about Policy Dimension Loading Process in the Oracle Insurance Data Foundation application.

This chapter includes the following topics:

- Overview of Policy Dimension
- Overview of Policy Dimension Population
- Executing the Policy Dimension SCD

Overview of Policy Dimension

The SCD population in DIM_POLICY table generates individual numeric Surrogate Keys for every policy code . Below are the columns that will be loaded during SCD population:

- V_POLICY_CODE
- N_POLICY_SKEY
- FIC_MIS_DATE
- V_PRODUCT_PROCESSOR_NAME
- V_PROD

Overview of Policy Dimension Population

SCD seeded definitions are provided for loading data into the target table Policy Dimension (DIM_POLICY).

| Map Reference No. | Source View Name |
|-------------------|----------------------------|
| 189 | STG_BILLS_CONTRACTS_V |
| 190 | STG_BORROWING_V |
| 191 | STG_CARDS_V |
| 192 | STG_CASA_V |
| 193 | STG_COMMITMENT_CONTRACTS_V |
| 194 | STG_CREDIT_DERIVATIVES_V |
| 195 | STG_FUTURES_V |
| 196 | STG_FX_CONTRACTS_V |
| 197 | STG_GUARANTEES_V |
| 198 | STG_INVESTMENTS_V |
| 199 | STG_LC_CONTRACTS_V |
| 200 | STG_LEASES_CONTRACTS_V |
| 201 | STG_LOAN_CONTRACTS_V |
| 202 | STG_MM_CONTRACTS_V |
| 203 | STG_MUTUAL_FUNDS_V |

| Map Reference No. | Source View Name |
|-------------------|-------------------------------|
| 204 | STG_OD_ACCOUNTS_V |
| 205 | STG_OPTION_CONTRACTS_V |
| 206 | STG_REPO_CONTRACTS_V |
| 207 | STG_RETIREMENT_ACCOUNTS_V |
| 208 | STG_SWAPS_CONTRACTS_V |
| 209 | STG_TD_CONTRACTS_V |
| 210 | STG_TRUSTS_V |
| 211 | STG_ISTISNA_V |
| 212 | STG_IJARAH_V |
| 213 | STG_MUDARABAH_V |
| 214 | STG_MURABAHAH_V |
| 215 | STG_MUSHARAKAH_V |
| 216 | STG_SALAM_V |
| 217 | STG_SUKUK_V |
| 262 | STG_BORROWING_COMMITMENTS_V |
| 263 | STG_CORRESPONDENT_ACCOUNT_V |
| 264 | STG_TRADING_ACCOUNT_V |
| 341 | STG_PAYMENT_SETTLEMENT_ACCT_V |
| 349 | STG_COMMODITIES_V |
| 350 | STG_CUSTODIAL_ACCOUNTS_V |
| 351 | STG_MANAGED_INV_ADV_V |
| 352 | STG_MERCHANT_BANKING_V |
| 353 | STG_PREPAID_CARDS_V |
| 354 | STG_SPEND_OBLIGATIONS_V |

Executing the Policy Dimension SCD

Batch <INFODOM>DIM_POLICY_SCD is introduced with 40 tasks under it.

These 40 tasks represent the 40 SCD processes where different product processors are the source and DIM_POLICY is the target. MAP_REF_NUMs 188 to 217, 262 to 264, 341, 349 to 354 is introduced into SYS_TBL_MASTER table, and subsequently into SYS_STG_JOIN_MASTER.

Depending on the requirement by an application, a task can be excluded or included from the batch execution.

- SCD execution occurs based on the GAAP code which is configured in SETUP_MASTER table. This is introduced to tackle the scenario of multiple GAAP codes. Whether or not there exist multiple GAAP codes, SETUP_MASTER should be manually configured as follows.
- All the tasks can be executed in parallel. This might cause the N_RCV_LEG_ACCT_SKEY to have an incremental value as compared to N_POLICY_SKEY.

Note: By default, OIDF installer will seed the following entry into SETUP_MASTER.

| V_COMPONENT_CODE | V_COMPONENT_DESC | V_COMPONENT_VALUE |
|------------------|------------------|-------------------|
| DEFAULT_GAAP | DEFAULT_GAAP | USGAAP |

For all other GAAP codes, you must update SETUP_MASTER manually before running DIM_POLICY SCD.

Handling Multiple GAAP Codes for the Same Account Number for the Same MIS Date in SCD

When multiple GAAP codes exist for the same account number for the same MIS date, configure the SETUP_MASTER table manually as mentioned in the preceding section:

V_COMPONENT_VALUE holds the GAAP code for which the SCD is to be executed.

If there are different GAAP codes for two distinct account numbers for the same MIS date, then the SCD must be executed for each GAAP code by changing the V_COMPONENT_VALUE manually in SETUP_MASTER table. The SETUP_MASTER table should have only one record WHERE V_COMPONENT_DESC = 'DEFAULT_GAAP'.

Handling Multiple Load Runs for the Same Account Number for the Same MIS Date in SCD

When multiple Load Runs exist for the same account number for the same MIS date, ensure that FSI_ACCOUNT_LOAD_RUN_MAP is populated with Account Numbers having latest Load Run Flag = Y. For further details, see Loading Multiple Load Runs in OFSAA.

CHAPTER 7 Party Dimension Population

This chapter provides information about Party Dimension Loading Process in the Oracle Insurance Data Foundation application.

This chapter includes the following topics:

- Overview of Party Dimension Loading
- Party Dimension Population using Stage Party Master Entity
- Party Dimension Population using Stage Customer Master Entity
- Execution of Party Dimension Population Batch

Overview of Party Dimension Loading

The Party Dimension populates DIM_CUSTOMER table by generating individual numeric Surrogate Keys for every customer reference code. This table is used in Reporting by joining with other results tables.

Party Dimension Population using Stage Party Master Entity

The Party Dimension can be populated from Stage Party Master Entity using the SCD packaged in OIDF with map reference number 335.

Prerequisites

- STG_PARTY_MASTER should be loaded with all records which are required
- STG_PARTY_ROLE_MAP should be loaded with all customer records and Party Role should be 'CUSTOMER'

Party Dimension Population using Stage Customer Master Entity

The Party Dimension can be populated from Stage Customer Master Entity using the SCD packaged in OIDF with map ref number 32.

Prerequisites

• STG_CUSTOMER_MASTER should be loaded with all records which are required.

Execution of Party Dimension Population Batch

For Party Master Flow

Customer Dimension SCD from Party Master can be executed by executing task present in the seeded batch <INFODOM>_DIM_CUSTOMER_SCD_PARTY.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch **<INFODOM>_DIM_CUSTOMER_SCD_PARTY** where Infodom is the information domain where application is installed.

- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the ftpshare/<infodom>/logs folder:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

For Customer Master Flow

Customer Dimension SCD from Customer Master can be executed by executing task present in the seeded batch <INFODOM>_DIM_CUSTOMER_SCD_CUST.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch **<INFODOM>_DIM_CUSTOMER_SCD_CUST** where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the ftpshare/<infodom>/logs folder:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Note: Following are the two customer based dimensions that are used across various OFSAA applications for their processing and reporting requirements:

- DIM_PARTY
- DIM_CUSTOMER

In the earlier releases, both the dimensions sourced data from separate staging tables i.e. STG_PARTY_MASTER and STG_CUSTOMER_MASTER respectively. This design however enforced the population of customer data in both staging tables.

To address **Bug 20486362 - SCD TO POPULATE DIM_CUSTOMER FROMSTG_PARTY_MASTER TO BE ADDED**, a new SCD (MAP_REF_NUM = 335) was introduced in OIDF release 8.0.1.0.0 to load DIM_CUSTOMER using STG_PARTY_MASTER and STG_PARTY_ROLE_MAP as the source. Customers, who use applications that have a dependence on DIM_PARTY, are advised to use this SCD instead of SCD, 32. Execute batch DIM_CUSTOMER_SCD_PARTY to populate DIM_CUSTOMER using STG_PARTY_MASTER and STG_PARTY_ROLE_MAP as the source. SCD, 32 will be deprecated in a future release. There are two flows available for DIM_CUSTOMER population. Only one need to be executed accordingly. Following are the two flows:

- Party Dimension Populating using Customer Master
- Party Dimension Populating using Party Master

CHAPTER 8

Loading Multiple Load Runs in OFSAA

This chapter provides information about Loading Multiple Load Runs in OFSAA in the Oracle Financial Services Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview
- Objective
- Design Details
- Implementation
- Loading OFSAA Staging Tables
- Post Stage Load Process
- Loading data into OFSAA Results Tables from Staging Tables

Overview

Multiple load run enables data to be loaded multiple times during the day for staggered processing of data by analytical applications. The degree of complexity of data required by analytical apps vary from one to the other, the load run ensures that the customer can process the data as soon as it is ready for an app to uptake. This reduces the turnaround time to reporting, by avoiding the 'end of day' type of processing of information as part of the original design.

Note: As a work around, currently you can use the following methods to load the results table using different Load Run IDs

Objective

- 1. To optimize the end-to-end data flow and the need for intra-day reporting, institutions could load intra-day records into OFSAA. Current application can only handle one set of records per date (incremental loads are not possible).
- 2. Users need to adjust and reload data (either full or partial) for the current date.
- 3. Users need to adjust and reload data (either full or partial) for any of past dates.
- 4. Support incremental consumption of data from staging area.

Note: The load run is enabled only in the model and is '0' by default in the model. This does not impact data previously available. The enhancements to the OFSAA batch and run framework to cover all the use cases will be taken in a future release.

OIDF 8.0.4 staging model provides a flexibility to load multiple snapshots of the data in the staging tables (Product Processors). A column named n_load_run_id is introduced as part of the primary key of the product processor tables to enable this feature. However, the full fledged functionality to load and manage these snapshots will be part of the platform release at a later stage.

To leverage this design in 8.0.4 release, the below mentioned changes should be performed as a workaround to load multiple snapshot of data from staging to results tables such as Fact Common Account Summary.

For Loading multiple snapshots of data for the same FIC_MIS_DATE, the existing T2T's should be executed through the Run Rule Framework. Additionally, the load should be filtered accordingly for each load run via the run filter.

To execute this run:

- 1. Navigate to \$FIC_HOME/ficweb/webroot/conf
- 2. Edit the file: excludeURLList.cfg
- 3. Add the following entry at the end of the file: [SQLIA]./pr2

Note: There should not be any blank line in the file.

Design Details

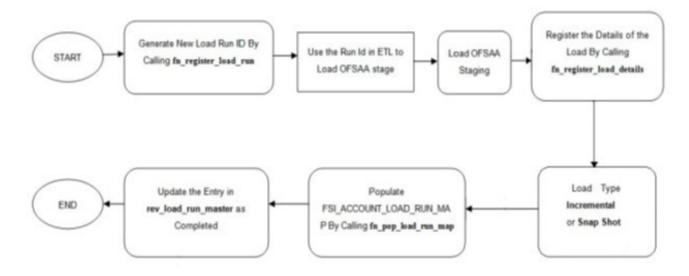
Loading of data into OFSAA can be in any of the following ways:

- ETL Tool
- OFSAA F2T
- OFSAA T2T
- OFSAA Excel upload
- OFSAA DIH

OFSAA data model includes load run identifier as part of the primary key for a set of staging tables. This enables data to be stored for multiple load runs for any date. OFSAA data model also has a table to maintain master information about load run and can be used for identifying/filtering load run during run execution within OFSAA.

Implementation

Before loading data into the staging table, you should generate a Load Run Identifier to stamp the records from the source. These records could be a complete snapshot or could be partial/incremental data too. This load run identifier can be generated by calling the function in the OFSAA atomic schema named fn_register_load_run. The function expects some input parameters and returns a unique load run identifier back to the calling program.



Note: Column n_load_run_id should always be populated only by the value returned by fn_register_load_run. Function: Register Load Run (fn_register_load_run)

| Parameters: Batch II | D, MIS-Date, Load | Run Name, Load Run | Purpose, Load Run | Type |
|----------------------|-------------------|--------------------|-------------------|------|
|----------------------|-------------------|--------------------|-------------------|------|

| Parameters | Source of Values | Example Values |
|------------------|----------------------------------------------------|--------------------------------------------------------|
| Batch ID | Auto generated if you are using OFSAA Framework | OFSOIDFINFO_20150101_1 |
| MIS-Date | Input from Customer | 01/01/2015 |
| Load Run Name | Input from Customer | Daily EOD Load |
| Load Run Purpose | Input from Customer | BA/BS (Basel Advanced Approach, Basel Standard) |
| Load Run Type | Input from Customer | B - Base, A - Adjustments, P- Backdated Adjustments |

Example:

```
Declare
    Result number;
Begin
    Result: = fn_register_load_run
  ('OFSOIDFINFO_20150101_1','20150101','OIDF_LOAD','BA', 'A');
End;
```

The function registers the request in the table name rev_load_run_master and marks load as "In progress". You can use columns LOAD_RUN_NAME and LOAD_PURPOSE as per the requirement.

Column Load Type must have only the permissible value such as:

- "B Base
- "A Adjustments
- "P- Backdated Adjustments

| LOAD_ RUN_ID | MIS_ DATE | LOAD_ TYPE | LOAD_ PURPOSE | START_ DT_ TIME | LOAD_ RUN_ NAME | BATCH_ ID | LOAD_ RUN_ STATUS |
|-----------------|--------------|---------------|------------------|-----------------------|-----------------------|--------------------------------|-------------------------|
| 1 | 01-JAN-15 | А | ВА | 01-JAN-15 | OIDF_Load | OFSOIDFI NFO_20150 101_1 | In Progress |

Note: Multiple calls to the procedure can be made to the function for given FIC_MIS_DATE. Each call will return a number which will be unique across the FIC_MIS_DATE/Extraction date. You can use this load identifier to load either one or more staging tables.

Loading OFSAA Staging Tables

After the load run ID is generated as described above, you can use the same in external ETL process to stamp the records from the source system before them loading either in one or the multiple staging tables of OFSAA Staging area.

Load strategy at a customer site falls across two categories:

- Complete Snapshot
- Incremental Snapshot

Complete Snapshot Load Example

For example, if there are three Loan Contract accounts in a bank system which is supposed to be loaded into OFSAA Stage Loan Contracts using the Load Run ID = 1 for Basel Standard Approach, the data after loading staging table appears as follows.

| FIC_MIS_DATE | V_ACCOUNT_NUMBER | V_GAAP_CODE | N_LOAD_RUN_ID | N_EOP_BAL |
|--------------|------------------|-------------|---------------|-----------|
| 01-JAN-15 | LOAN1000 | USGAAP | 1 | 4066.213 |
| 01-JAN-15 | LOAN1001 | USGAAP | 1 | 34538.905 |
| 01-JAN-15 | LOAN1002 | USGAAP | 1 | 667.357 |

Note: After each load you need to run fn_register_load_details function mentioned in Post Stage Load Process and Updating Load as Completed which is explained in the following sections.

To enable downstream applications to consume only the latest set of record, you must call another function named **fn_pop_load_run_map**. This is mandatory for incremental snapshot load scenario. This function populates a intermediate processing table that keep track of latest incoming record identifier.

Function: Populate Load Run Map

Parameters: Batch ID, MIS Date, Stage Table Name, Load Run ID, Load Run Name

| Parameters | Source of Values | Example Values |
|------------------|----------------------------------------------------|------------------------|
| Batch ID | Auto generated if you are using OFSAA Framework | OFSOIDFINFO_20150101_1 |
| MIS-Date | Input from Customer | 01/01/2015 |
| Stage Table Name | Input from Customer | STG_CASA |
| Load Run ID | Input from Customer | 1 |
| Load Run Name, | Input from Customer | OIDF_Load |

Example

```
Declare
```

Result number;

Begin

```
Result: =
fn_pop_load_run_map('OFSOIDFINFO_20150101_1','20150101','STG_CASA',1,'OIDF
LOAD');
```

END;

Note: For troubleshooting any errors while making the function calls , refer to fsi_message_log table for more details.

| FIC_MIS_ DATE | V_ACCOUNT_ NUMBER | V_GAAP_ CODE | N_LOAD_RUN_ ID | F_LATEST_LOAD_RUN_ FLAG |
|------------------|----------------------|-----------------|-------------------|----------------------------|
| 1-Jan-15 | LOAN1000 | USGAAP | 1 | Y |
| 1-Jan-15 | LOAN1001 | USGAAP | 1 | Ν |
| 1-Jan-15 | LOAN1002 | USGAAP | 1 | Ν |
| 1-Jan-15 | LOAN1001 | USGAAP | 2 | Y |
| 1-Jan-15 | LOAN1002 | USGAAP | 2 | Y |
| 1-Jan-15 | LOAN1000 | USGAAP | 2 | Y |

For the example mentioned above, records in FSI_ACCOUNT_LOAD_RUN_MAP table will appear as below:

There may be a requirement to reload a complete snapshot of data in the OFSAA staging again. This could either be to satisfy a intraday reporting requirement, or to load corrected source records in the OFSAA staging table. The earlier design forced users to truncate staging table to accommodate the new set of date. However with the introduction of Load Run identifier concept, you can retain both set of data in the staging area and allow the downstream application choose the correct set for processing. This involves making another call to **fn_register_load_run** function.

For example in the below table, LOAN1001 and LOAN1002 have some changes since the previous load and will now need be loaded again staging with a different load run identifier. Additionally, strategy is to load the complete snapshot again to staging, all the records from the source such as, both changed and unchanged records will need to stamped with the new load run identifier

| FIC_MIS_ DATE | V_ACCOUNT_ NUMBER | V_GAAP_ CODE | N_LOAD_RUN_ ID | N_EOP_BAL |
|------------------|----------------------|-----------------|-------------------|-----------|
| 01-JAN-15 | LOAN1000 | USGAAP | 1 | 4066.213 |
| 01-JAN-15 | LOAN1001 | USGAAP | 1 | 34538.905 |
| 01-JAN-15 | LOAN1002 | USGAAP | 1 | 667.357 |
| 01-JAN-15 | LOAN1000 | USGAAP | 2 | 4066.213 |
| 01-JAN-15 | LOAN1001 | USGAAP | 2 | 34540.000 |
| 01-JAN-15 | LOAN1002 | USGAAP | 2 | 670.000 |

STG_LOAN_CONTRACTS after load appears as follows.

REV_LOAD_RUN_MASTER after second function call appears as follows.

| LOAD_ RUN_ID | MIS_ DATE | LOAD_ TYPE | LOAD_ PURPOSE | START_ DT_ TIME | LOAD_ RUN_ NAME | BATCH_ ID | LOAD_ RUN_ STATUS |
|-----------------|--------------|---------------|------------------|-----------------------|-----------------------|--------------------------------|-------------------------|
| 1 | 01-JAN-15 | В | ВА | 01-JAN-15 13:00 PM | OIDF_Load | OFSOIDF INFO_20 150101_1 | Complete |
| 2 | 01-JAN-15 | В | ВА | 01-JAN-15 23:00 PM | Loan Corrections | OFSOIDF INFO_20 150101_2 | In Progress |

Incremental Snapshot Load Example

This scenario is applicable when source may to portions of data at different point in time, or handover only the records changed since the last load. This is contrary to example explained under the Complete snapshot load section.

The same scenario in case of incremental snapshot load appears as follows.

Note: Only the changed source records are stamped with the new load run identifer.

| FIC_MIS_DA TE | V_ACCOUNT_NUMBE R | V_GAAP_COD E | N_LOAD_RUN_I D | N_EOP_BAL |
|------------------|----------------------|-----------------|-------------------|-----------|
| 01-JAN-15 | LOAN1000 | USGAAP | 1 | 4066.213 |
| 01-JAN-15 | LOAN1001 | USGAAP | 1 | 34538.905 |
| 01-JAN-15 | LOAN1002 | USGAAP | 1 | 667.357 |
| 01-JAN-15 | LOAN1001 | USGAAP | 2 | 34540.000 |
| 01-JAN-15 | LOAN1002 | USGAAP | 2 | 670.000 |

Note: After each load you need to run fn_register_load_details function mentioned in Post Stage Load Process and Updating Load as Completed which is explained in the following sections.

In order to enable downstream applications to consume only the latest set of record, you need to call another function named fn_pop_load_run_map. This is mandatory in case of incremental snapshot load scenario. This function populates a intermediate processing table that keep track of latest incoming record identifier.

Function - Populate Load Run Map

Parameters - Batch ID, MIS Date, Stage Table Name, Load Run ID, Load Run Name

| Parameters | Source of Values | Example Values |
|------------------|----------------------------------------------------|------------------------|
| Batch ID | Auto generated if you are using OFSAA Framework | OFSOIDFINFO_20150101_1 |
| MIS-Date | Input from Customer | 01/01/2015 |
| Stage Table Name | Input from Customer | STG_CASA |
| Load Run ID | Input from Customer | 1 |
| Load Run Name, | Input from Customer | OIDF_Load |

Example

```
Declare
```

```
Result number;
```

Begin

```
Result: =
fn_pop_load_run_map('OFSOIDFINF0_20150101_1','20150101','STG_CASA',1,'OIDF
_LOAD');
END;
```

Note: For troubleshooting any errors while making the function calls , refer to fsi_message_log table for more details.

| FIC_MIS_ DATE | V_ACCOUNT_ NUMBER | V_GAAP_ CODE | N_LOAD_RUN_ ID | F_LATEST_LOAD_RUN_ FLAG |
|------------------|----------------------|-----------------|-------------------|----------------------------|
| 1-Jan-15 | LOAN1000 | USGAAP | 1 | Y |
| 1-Jan-15 | LOAN1001 | USGAAP | 1 | Ν |
| 1-Jan-15 | LOAN1002 | USGAAP | 1 | Ν |
| 1-Jan-15 | LOAN1001 | USGAAP | 2 | Y |
| 1-Jan-15 | LOAN1002 | USGAAP | 2 | Y |

For the example mentioned above, records in FSI_ACCOUNT_LOAD_RUN_MAP table appears as follows.

Post Stage Load Process

Once you load the OFSAA Stage tables successfully using the load run ID which is generated from Load Run Map function, you need to perform certain post load processes in order to complete the loading.

Register Load Run Details

Once you load the OFSAA Stage tables successfully using the load run ID which is generated from Load Run Map function, you need to register the load run details by calling the following function with the load type whether it was incremental or full snap shot.

Function - Register Load Run Details

| Parameters - batch ID | mis-date, load run | name, load run ID. | , stage table name, load type |
|-------------------------|------------------------|--------------------|-------------------------------|
| - diminorero batteri ib | , millo date, road ram | manney roud ran 12 | , stuge usie mane, isua type |

| Parameters | Source of Values | Example Values |
|------------------|----------------------------------------------------|------------------------|
| Batch ID | Auto generated if you are using OFSAA Framework | OFSOIDFINFO_20150101_1 |
| MIS-Date | Input from Customer | 01/01/2015 |
| Stage Table Name | Input from Customer | STG_CASA |
| Load_Run_Id | Input from Customer | 1 |
| Load Run Name, | Input from Customer | OIDF_Load |
| Load Type | Input from Customer | S - Full Snap Shot |
| | | I - Incremental |

Example:

Declare

```
Result number;
```

Begin

```
Result: =
fn_register_load_details('OFSOIDFINF0_20150101_1','20150101',
'STG_CASA',1,'OIDF_LOAD', 'I');
```

END;

This function populates a table named rev_load_run_details. The columns load type can have only 2 values, such as:

- "S Complete/Full Snapshot
- "I Incremental Snapshot

| LOAD_RUN_ID | MIS_DATE | STAGE_TABLE_NAME | LOAD_TYPE |
|-------------|----------|--------------------|-----------|
| 1 | 1-Jan-15 | STG_LOAN_CONTRACTS | Ι |

Updating Load as Completed

Once you complete these steps, update the status of the record inside rev_load_run_master as Completed.

```
UPDATE rev_load_run_master
SET LOAD_RUN_STATUS = 'Completed'
WHERE pMis_Date = '01-Jan-15'
AND pLoad_Run_Name = 'OIDF_LOAD' and LOAD_RUN_ID = 1;
```

Loading data into OFSAA Results Tables from Staging Tables

OFSAAI does not support load run versioning for Data Movement from Stage to Results using Batch/Run Framework. The same feature is expected as an enhancement in future release of AAI.

As a work around, currently you can use the following methods to load the results table using different Load Run IDs.

Complete Snapshot Load Scenario

To enable the Data Load into Results table from staging using the Load Run concept in case of Full Snap Shot, You can use the following Task Level Parameter in the T2T Filter condition and can pass the load run ID to be passed in Batch Framework or Run Framework.

For example: FCAS T2T for Stage Loan Contracts

• "Modify Filter Condition inside T2T:

Filter Conidtion to be used in T2T: The highlighted condition required to be added in T2T

Filter : UPPER(STG_LOAN_CONTRACTS.v_gaap_code)='USGAAP' AND STG_LOAN_CONTRACTS.fic_mis_date=\$MISDATE **AND STG_LOAN_CONTRACTS.N_LOAD_RUN_ID='[LOADRUN]**'

- "Modify the Corresponding Batch Task Each Time with Load Run Idxxx
 - 1. Select Batch, Task (T2T_STG_LOANS_CAS)
 - 2. Click Edit
 - 3. Add Highlighted Condition in Default Value and Save (Each Time we need to provide the Load Run ID which are supposed to use. Here in the following example, 1 is used.)

[DRCY]=USD, [LOADRUN]=1

| | | | Task D | Definition D | | 0 |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------|-------------|-------------------------|-----------------------------------------------------|---|
| plications Object Administration System Configuration & Identity Management | f My Inbox | - Task Definition | | | | |
| Select Applications | Financial Services Data Foundation > Operations > Batch | | | | Outs loading into fcas from stage loan contracts | |
| Financial Services Data Foundation V | OFSEFNONFO DM_ACCOUNT_SCD | Task D | Task1 | Description | CONTROLS | |
| Brancial Services Data Foundation | C OFSEFNONFO_DRM_HER_FLAT_SCD | | | | | |
| | CFS8FNDNF0_EXPOSURE | Components | LOAD DATA · | | | |
| Ba Data Model Management | C OFSEFNDINFO_GL AND ACCOUNTING | Dynamic Paramete | ra List | | | |
| Data Management Framework | C OFSERNDINFO_LAM | Property | | Value | | |
| Unified Analytical Metadata | C OFSEFNONFO_MARKET RISK | Datastore Type | | EDW | | _ |
| Rule Run Framework | C OFSETNDINFO_MASTER | Datastore Name | | OFSEFNDERFO | | |
| 4 18 Operations | CFS8/NDINFO_MD8 | P Address | | 10 184 135 172 | | |
| Batch Maintenance | OFSBENDINFO_MDB_OBJECT_APPLN_MAP | Load Mode | | Table To Table | | |
| Batch Execution | CFSBFNDNF0_MISCELLANEOUS | Source Name | | FSOF_SRC | | |
| | CFSBFNDINFO_OP RISK | Fie name | | T2T_ST0_LOANS_CAS | | |
| Batch Scheduler | CFSBFNDINFO_ORIGINATION | Data File Name | | MAL | | |
| Batch Monitor | CFS8FNDNFO_POP_DATALOAD_DM | Default Value | | IDRC17-USDJLOADRUND-1H1 | | |
| Batch Cancellation | CFSBFNDNFO_POP_DATES_DM | | | | | |
| Wew Log | CFS8FNDNF0_POP_DM_CUSTOMER_SCD | | | | | |
| Processing Report | OFSEFNDINFO_POP_EXCHANGE_RATES OFSEFNDINFO_POP_HERARCHY_FLATTENING | | | | | |
| > Bit Settings | OFSEFNDINFO_PRODUCT PROCESSORS | | | | | |
| Metadata Browser | OFSEMDING PROCESSORS | | | | | |
| Netadala Browser | Cristinonito Rating | | | | | |
| | C OFSERNDINFO_SCO | | | | | |
| | CFS8FNDNF0_SECURITIZATION | | | | | |
| | C OFSEFNDINFO_STG_TO_FCAS | | | | | |
| | C OFSEFNDINFO_ST0_T0_FCCS | | | | | |
| | CFS8FNDINF0_ST0_T0_FTS | | | | | |
| | C OFSEFNDINFO_TRANSACTION SUMMARY | | | | | |
| | C OFSEFNONFO_TRANSACTIONS | | | | | |
| | + Task Details | | | | | |
| | Task D A | | | | | |
| | Z Task1 Data | | | | | |
| | Task2 Data b | | | | | |
| | Task3 Data B | | | | | |
| | Tank4 Data | | | | | |
| | Task5 Data | | | | | |
| | Task6 Date 1 | | | | | |
| | Task7 Data | | Save | Close | | |
| | Tank5 Data 4 | | | | | |
| | Task9 Data 1 | | | | | |
| | Task10 Date | + Audit Panel | | | | |
| | | | | | | |
| | | Created By: | OFSAD | Creation Date | 27 may 2015 20 :58 :20 | |

Execute the batch after this change; it will load the Result table with the given Load Run Id Records

Modify the Corresponding Process Task of a Run Each Time with Load Run Id

- 1. Select Process, Click Edit.
- 2. Choose Components, celect the Object (T2T_STG_LOANS_CAS) and click Components.
- 3. Click the **Yellow Drop** button near the T2T.
- 4. Add the **Highlighted Condition** with the text, and **Save** : "DRCY", "USD", "LOADRUN", "1".

| | Process Definition(Edit Wode) | Process | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------|-------|------------------------------|------|---|
| Linked to | | | | | | |
| ider | BFNDSEG | | | | | |
| Master Information E Properties | | Run Rule Framework Webpage Dialog | | | -3-) | 0 |
| | 377695877936 | Contract transmission - metapage standy | | | | |
| de | rd_Camm_Acid_Summ_Process | Search | | Sort | | |
| and the second se | Fet Common Account Summary Process | | 9 | Ascending Descending | | |
| escutable | | Lat | | Taska In ROOT (32) | | |
| 1 Statements Concentral Procedures 2 Mar | 1 🗃 Remove 1 📴 Show Details 1 🥂 Shorps Roles 1 🔍 Edit Subprocess | - A Component | | Ctact | | |
| Process | Capit | 🛞 🍄 Data Extraction Rules | | 7 T2T_STG_LOANS_CAS | | |
| -T2T_STG_LOANS_CAS | V T2T_ST0_LOANS_CAS | 🖃 🖉 Lood Data Rules | | Parameters (8) | | |
| - T2T_STQ_ANNUITY_CONTRACTS_CAS | T2T_ST0_ANNUITY_CONTRACTS_CAS | Qa Fie Loading Rules | | TORCHT/USD/TLOADRUM/711 | | |
| T2T_STQ_BORROWINGS_CAS | T2T_5T0_BORROWHOS_CAS | Pointerior Rules Pointerior Rules | | Ck Ckee | | |
| - T2T_STG_BLLS_CAS - T2T_STG_CARDS_CAS | T2T_ST0_CARDS_CAS | get Transformation Hues (+) 20 Database Functions-Transformations | | E warman . | | |
| T2T_ST0_CASA_CAS | T2T_ST0_CASA_CAS | m ff Dase Rules | | T2T_ST0_FUTURES_CAS | | |
| T2T_STG_FUTURES_CAS | T2T_ST0_FUTURES_CAS | + S Casafication Rules | 1 | TZT_STG_FX_CONTRACTS_CAS | | |
| T2T_STO_FX_CONTRACTS_CAS | T2T_ST0_FX_CONTRACTS_CAS | (#) % Computation Rules | 12 | T2T_STG_GUARANTEES_CAS | | |
| - T2T_STG_GUARANTEES_CAS | T2T_ST0_OUARANTEES_CAS | + A Processes | -1 | T2T_STG_UARAH_CAS | | |
| T2T STO UARAN CAS | T2T_ST0_UARAH_CAS | E Bi Esebase Cubes | | T2T_STG_NVESTMENTS_CAS | | |
| T2T_STG_INVESTMENTS_CAS | TZT_ST0_BTDM_CAS | + Ca Apprepate Data | | T2T_ST0_LC_CAS | | |
| T2T_STO_STENA_CAS | 12T_5T9_LC_CAS | Pg Create Cubes | | TZT_STO_LEASES_CONTRACTS_CAS | | |
| T2T_STO_LC_CAS | TZT_STO_LEASES_CONTRACTS_CAS | - 🖛 Oracle Cubes | | TIT_STO_NM_CAS | | |
| T2T_STG_LEASES_CONTRACTS_CAS | [] 121,510,MM_CAS | 🛞 🚟 Oracle Cubes | | TIT_STO_MUDARABAH_CAS | | |
| T2T_STG_MW_CAS | TIT_STO_MUCARABAN_CAS | - A twoutste | | TZT_STG_MURABAHAH_CAS | | |
| | | + V ORC Engine | | TZT_STQ_MUSHARAKAH_CAS | | |
| | | The State | | T2T_STG_MUTUAL_FUNDS_CAS | | |
| | | (ii) w Pooling | | T2T_ST0_00_CAS | | |
| | | LT T | | T2T_ST0_OPTIONS_CAS | | |
| | | | | | | |
| | | Note: Subproce | Ok Ok | reneved from this window. | | |
| | | | OK I | Level . | 1 | |
| | | | | | • | |

Fire the Run after this change. It loads the Result table with the given Load Run ID Records.

Incremental Load Scenario

To enable the Data Load into Results table from staging using the Load Run concept in case of incremental load, You can use the following T2T join change concept in the T2T ANSI join and can use the Batch Framework or Run Framework to execute the same.

For example, FCAS T2T for Stage CASA

Modify Join Condition inside T2T:

Join Condition to be added in all relevant T2T

```
For example, STG_CASA T2T join
```

INNER JOIN FSI ACCOUNT LOAD RUN MAP

```
ON FSI_ACCOUNT_LOAD_RUN_MAP.V_ACCOUNT_NUMBER =
```

```
STG_CASA.V_ACCOUNT_NUMBER
```

AND FSI_ACCOUNT_LOAD_RUN_MAP.N_LOAD_RUN_ID = STG_CASA.N_LOAD_RUN_ID AND FSI_ACCOUNT_LOAD_RUN_MAP.FIC_MIS_DATE = STG_CASA.FIC_MIS_DATE AND FSI_ACCOUNT_LOAD_RUN_MAP.V_GAAP_CODE = STG_CASA.V_GAAP_CODE AND FSI_ACCOUNT_LOAD_RUN_MAP.F_LATEST_LOAD_RUN_FLAG = 'Y'

Execute the batch / fire the Run after the above step.

CHAPTER 9 Exchange Rates Population

This chapter provides information about Exchange Rates Population in the Oracle Insurance Data Foundation Application and step-by step instructions to use this section.

This chapter includes the following topics:

- Overview of Exchange Rates Table
- Overview of Exchange Rates Population
- Handling Alternate Currency
- Execution of Currency Exchange Rates Population T2T

Overview of Exchange Rates Table

Exchange Rates Table is loaded from a view VW_FSI_RATE_TRIANGULATION which is created on top of Stage table STG_EXCHANGE_RATE_HIST using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

Overview of Exchange Rates Population

Table to Table seeded definition is provided for loading data into the target table Exchange Rates (FSI_EXCHANGE_RATES):

| Sl. No. | Source View Name | T2T Definition Name |
|---------|---------------------------|------------------------|
| 1 | VW_FSI_RATE_TRIANGULATION | T2T_FSI_EXCHANGE_RATES |

Handling Alternate Currency

Exchange rates are provided by the customers as download. The applications may require the information in different format, the current exchange rate population has been enhanced to store the following variations.

Inverse Rate: When the exchange rate information of two currencies are provided for a base and a counter currency, the inverse rates if not available is derived and populated.

Triangulation Rate: When exchange rate information of two pairs are available as part of download, with a common currency in each of the pair, exchange rate for currencies not common as part of the download pair is derived and populated.

Execution of Currency Exchange Rates Population T2T

Execution through Batch

The batch <INFODOM>_POP_EXCHANGE_RATES needs to be executed to populate fsi_exchange_rates as the entries in setup_master are seeded during installation.

Note: FSI_EXCHANGE_RATES table has to be loaded prior loading any other Results tables. While executing throughbatch, the RUNSkey is defaulted to -1.

Execution through Run Management

The T2T is part of *FSDF Exchange Rates Data Load Process* process. The process can be executed through the Seeded Run *Financial Services Data Foundation Execution Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Currency Execution Rates - Batch Execution

A seeded batch, <INFODOM>_POP_EXCHANGE_RATES has to be executed for the required MIS Date.

Alternatively, following steps will help you create a new batch:

- 5. From the Home menu, click **Operations** and select **Batch Maintenance**.
- 6. Click New Batch ('+' symbol in Batch Name container). Enter the Batch Name and Description.
- 7. Click Save.
- 8. Click the check box in the Batch Name container to select the Batch, you created in the earlier step.
- 9. Enter the Task ID and Description.
- 10. Select Load Data from the Components list.
- 11. Select the following from the Dynamic Parameters List:
 - Datastore Type: Select the appropriate datastore from the list.
 - Datastore Name: Select the appropriate name from the list.
 - IP address: Select the IP address from the list.
 - Load Mode: Select Table to Table from the list.
 - Source Name: Select <T2T Source Name>from the list.
 - File Name: Select the T2T name for the source stage channel table you want to process.
- 12. Click Save.

Data file name will be blank for any Table to Table Load mode. Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

Execute the batch created in the preceding steps.

CHAPTER 10 Common Policy Summary Population

This chapter provides information about Common Policy Summary Population in the Oracle Insurance Data Foundation Application and step-by step instructions to use this section.

This chapter includes the following topics:

- Overview of Common Policy Summary Tables
- Overview of Common Policy Summary Population
- Executing the Common Policy Summary Population T2T
- Checking the Execution Status
- Common Policy Summary T2Ts

Overview of Common Policy Summary Tables

Common Policy Summary table is loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

The Fact Common Policy Summary stores data from the Stage Loan Contracts, Stage Leases Contracts and Stage OD Accounts for further operation and regulatory reporting.

Overview of Common Policy Summary Population

Table to Table seeded definitions are provided for loading data into the target table Fct Common Policy Summary (FCT_COMMON_POLICY_SUMMARY):

| 5 | Sl. No. | Source Table Name | T2T Definition Name |
|---|---------|-----------------------------|--------------------------------------|
| | 1 | STG_ANNUITY_CONTRACTS | T2T_FCPS_STG_ANNUITY_CONTRACTS |
| 2 | 2 | STG_HEALTH_INS_CONTRACTS | T2T_FCPS_STG_HEALTH_INS_CONTRACTS |
| | 3 | STG_LIFE_INS_CONTRACTS | T2T_FCPS_STG_LIFE_INS_CONTRACTS |
| 4 | 4 | STG_PROP_CASUALTY_CONTRACTS | T2T_FCPS_STG_PROP_CASUALTY_CONTRACTS |

Executing the Common Policy Summary Population T2T

Executing through Batch

Common Policy Account Summary T2T can be executed by executing task present in the seeded batch <INFODOM>_FCPS_PROCESS.

Following steps will help you to execute the batch:

- 1. Navigate to the Batch Execution screen.
- 2. Select the seeded batch **<INFODOM>_FCPS_PROCESS** where Infodom is the information domain where application is installed.
- 3. Select the AS_OF_DATE for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.

5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of *OIDF Run Execution Data Load Process* process. The process can be executed through the Seeded Run *Oracle Insurance Data Foundation Execution Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the **\$FIC_DB_HOME/logs/t2t** directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t.

The file name will have the batch execution ID.

The error log table in atomic schema is: FCT_COMMON_POLICY_SUMMARY\$.

Common Policy Summary T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 11 Insurance Policy and Fund Population

This chapter provides information about Insurance Policy and Fund Population in the Oracle Insurance Data Foundation Application and step-by step instructions to use this section.

This chapter includes the following topics:

- Overview of Insurance Policy and Fund Tables
- Overview of Insurance Policy and Fund Population
- Executing the Insurance Policy and Fund Population T2T
- Checking the Execution Status
- Insurance Policy and Fund T2Ts

Overview of Insurance Policy and Fund Tables

Insurance Policy and Fund table is loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

The Fact Insurance Policy and Fund table stores data from the Stage Loan Contracts, Stage Leases Contracts and Stage OD Accounts for further operation and regulatory reporting.

Overview of Insurance Policy and Fund Population

Table to Table seeded definitions are provided for loading data into the target table Fct Policy Funds (FCT_POLICY_FUNDS):

| | Sl. No. | Source Table Name | T2T Definition Name |
|---|---------|-------------------|----------------------|
| Ē | 1 | STG_POLICY_FUNDS | T2T_FCT_POLICY_FUNDS |

Executing the Insurance Policy and Fund Population T2T

Executing through Batch

Insurance Policy and Fund T2T can be executed by executing task present in the seeded batch <INFODOM>_EXE_INS_LOAD_PROCESS.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch <INFODOM>_EXE_INS_LOAD_PROCESS where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of *FSDF Run Execution Data Load Process* process. The process can be executed through the Seeded Run *Financial Services Data Foundation Execution Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the **\$FIC_DB_HOME/logs/t2t** directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t.

The file name will have the batch execution ID.

The error log table in atomic schema is: FCT_POLICY_FUNDS\$.

Insurance Policy and Fund T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 12 Insurance Coverage Population

This chapter provides information about Insurance Coverage Population in the Oracle Insurance Data Foundation Application and step-by step instructions to use this section.

This chapter includes the following topics:

- Overview of Insurance Coverage Tables
- Overview of Insurance Coverage Population
- Executing the Insurance Coverage Population T2T
- Checking the Execution Status
- Insurance Coverage T2Ts

Overview of Insurance Coverage Tables

Insurance Coverage table is loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

The Fact Insurance Coverage table stores data from the Stage Loan Contracts, Stage Leases Contracts and Stage OD Accounts for further operation and regulatory reporting.

Overview of Insurance Coverage Population

Table to Table seeded definitions are provided for loading data into the target table Fct Policy Coverages (FCT_POLICY_COVERAGES):

| | Sl. No. | Source Table Name | T2T Definition Name |
|---|---------|----------------------|--------------------------|
| ſ | 1 | STG_POLICY_COVERAGES | T2T_FCT_POLICY_COVERAGES |

Executing the Insurance Coverage Population T2T

Executing through Batch

Insurance Coverage T2T can be executed by executing task present in the seeded batch <INFODOM>_EXE_INS_LOAD_PROCESS.

Following steps will help you to execute the batch:

- 1. Navigate to the Batch Execution screen.
- 2. Select the seeded batch <INFODOM>_EXE_INS_LOAD_PROCESS where Infodom is the information domain where application is installed.
- 3. Select the AS_OF_DATE for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of *FSDF Run Execution Data Load Process* process. The process can be executed through the Seeded Run *Financial Services Data Foundation Execution Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the *\$FIC_DB_HOME/logs/t2t* folder:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t.

The file name will have the batch execution ID.

The error log table in atomic schema is: FCT_POLICY_COVERAGES\$.

Insurance Coverage T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 13

Insurance Mortality and Morbidity Population

This chapter provides information about Insurance Mortality and Morbidity Population in the Oracle Insurance Data Foundation Application and step-by step instructions to use this section.

This chapter includes the following topics:

- Overview of Insurance Mortality and Morbidity Tables
- Overview of Insurance Mortality and Morbidity Population
- Executing the Insurance Mortality and Morbidity Population T2T
- Checking the Execution Status
- Insurance Mortality and Morbidity T2Ts

Overview of Insurance Mortality and Morbidity Tables

Insurance Mortality and Morbidity table is loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

The Fact Insurance Mortality and Morbidity table stores data from the Stage Loan Contracts, Stage Leases Contracts and Stage OD Accounts for further operation and regulatory reporting.

Overview of Insurance Mortality and Morbidity Population

Table to Table seeded definitions are provided for loading data into the target tables Fct Insurance Mortality and Fct Insurance Morbidity (FCT_INSURANCE_MORTALITY and FCT_INSURANCE_MORBIDITY):

| Sl. No. | Source Table Name | T2T Definition Name | |
|---------|-------------------------|-----------------------------|--|
| FCT_IN | FCT_INSURANCE_MORTALITY | | |
| 1 | STG_INSURANCE_MORTALITY | T2T_FCT_INSURANCE_MORTALITY | |
| | | | |
| FCT_IN | FCT_INSURANCE_MORBIDITY | | |
| 1 | STG_INSURANCE_MORBIDITY | T2T_FCT_INSURANCE_MORBIDITY | |

Executing the Insurance Mortality and Morbidity Population T2T

Executing through Batch

Insurance Mortality and Morbidity T2T can be executed by executing task present in the seeded batch <INFODOM>_MISC_SRC_INS_PROCESS.

Following steps will help you to execute the batch:

1. Navigate to the Batch Execution screen.

- 2. Select the seeded batch <INFODOM>_MISC_SRC_INS_PROCESS where Infodom is the information domain where application is installed.
- 3. Select the AS_OF_DATE for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of *FSDF Run Execution Data Load Process* process. The process can be executed through the Seeded Run *Financial Services Data Foundation Execution Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the *\$FIC_DB_HOME/logs/t2t* folder:

• Unique Constraint Violation : This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t.

The file name will have the batch execution ID.

The error log tables in atomic schema are: FCT_INSURANCE_MORTALITY\$ and FCT_INSURANCE_MORBIDITY\$.

Insurance Mortality and Morbidity T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 14

Asset and Other Account Summary Population

This chapter provides information about Asset and Other Account Summary Population in the Oracle Insurance Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Asset and Other Account Summary Tables
- Overview of Asset and Other Account Summary Population
- Executing the Asset and Other Account Summary Population T2T
- Checking the Execution Status
- Asset and Other Account Summary T2Ts
- Handling Alternate Currency

Overview of Asset and Other Account Summary Tables

Asset and Other Account Summary tables are loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

Customer account level data from the Oracle Financial Services Analytical Applications (OFSAA) staging product processor tables must be consolidated into a standardized relational Business Intelligence (BI) data model. This consolidation is done to have all the staging product processor table data in a single Fact table. The Asset and Other Account Summary tables data can be used for building cubes, which allow rollup of data for a dimension or a combination of dimensions. This relational BI model consists of the following vertically partitioned Asset and Other Account Summary tables that are organized by application subject area.

- FCT_CRM_ACCOUNT_SUMMARY
- FCT_PFT_ACCOUNT_SUMMARY
- FCT_FTP_ACCOUNT_SUMMARY
- FCT_REG_CAP_ACCOUNT_SUMMARY
- FCT_ECO_CAPITAL_ACCOUNT_SUMMARY

The preceding Asset and Other Account Summary tables are part of data model but there are no seeded T2T definitions available to populate these tables. T2T processes must be custom configured to populate these tables to use measures defined on these tables for reporting.

Overview of Asset and Other Account Summary Population

Table to Table seeded definitions are provided for loading data into target table Fct Common Account Summary (FCT_COMMON_ACCOUNT_SUMMARY):

| Sl. No. | Source Table Name | T2T Definition Name |
|---------|---------------------------|-----------------------------------|
| 1 | STG_ANNUITY_CONTRACTS | T2T_STG_ANNUITY_CONTRACTS_CAS |
| 2 | STG_BILLS_CONTRACTS | T2T_STG_BILLS_CAS |
| 3 | STG_BORROWING_COMMITMENTS | T2T_STG_BORROWING_COMMITMENTS_CAS |
| 4 | STG_BORROWINGS | T2T_STG_BORROWINGS_CAS |
| 5 | STG_CARDS | T2T_STG_CARDS_CAS |
| 6 | STG_CASA | T2T_STG_CASA_CAS |
| 7 | STG_COMMITMENT_CONTRACTS | T2T_STG_COMMITMENT_CONTRACTS_CAS |
| 8 | STG_CORRESPONDENT_ACCOUNT | T2T_STG_CORRESPONDENT_ACCOUNT_CAS |
| 9 | STG_CREDIT_DERIVATIVES | T2T_STG_CREDIT_DERIVATIVES_CAS |
| 10 | STG_FUTURES | T2T_STG_FUTURES_CAS |
| 11 | STG_FX_CONTRACTS | T2T_STG_FX_CONTRACTS_CAS |
| 12 | STG_GUARANTEES | T2T_STG_GUARANTEES_CAS |
| 13 | STG_IJARAH | T2T_STG_IJARAH_CAS |
| 14 | STG_INVESTMENTS | T2T_STG_INVESTMENTS_CAS |
| 15 | STG_ISTISNA | T2T_STG_ISTISNA_CAS |
| 16 | STG_LC_CONTRACTS | T2T_STG_LC_CAS |
| 17 | STG_LEASES_CONTRACTS | T2T_STG_LEASES_CONTRACTS_CAS |
| 18 | STG_LOAN_CONTRACTS | T2T_STG_LOANS_CAS |
| 19 | STG_MM_CONTRACTS | T2T_STG_MM_CAS |
| 20 | STG_MUDARABAH | T2T_STG_MUDARABAH_CAS |
| 21 | STG_MURABAHAH | T2T_STG_MURABAHAH_CAS |
| 22 | STG_MUSHARAKAH | T2T_STG_MUSHARAKAH_CAS |
| 23 | STG_MUTUAL_FUNDS | T2T_STG_MUTUAL_FUNDS_CAS |
| 24 | STG_OD_ACCOUNTS | T2T_STG_OD_CAS |
| 25 | STG_OPTION_CONTRACTS | T2T_STG_OPTIONS_CAS |
| 26 | STG_REPO_CONTRACTS | T2T_STG_REPO_CONTRACTS_CAS |
| 27 | STG_RETIREMENT_ACCOUNTS | T2T_STG_RETIREMENT_ACCOUNTS_CAS |
| 28 | STG_SALAM | T2T_STG_SALAM_CAS |
| 29 | STG_SUKUK | T2T_STG_SUKUK_CAS |
| 30 | STG_SWAPS_CONTRACTS | T2T_STG_SWAPS_CONTRACTS_CAS |
| 31 | STG_TD_CONTRACTS | T2T_STG_TD_CONTRACTS_CAS |
| 32 | STG_TRUSTS | T2T_STG_TRUSTS_CAS |
| 33 | STG_COMMODITIES | T2T_STG_COMMODITIES_CAS |
| 34 | STG_CUSTODIAL_ACCOUNTS | T2T_STG_CUSTODIAL_ACCOUNTS_CAS |
| 35 | STG_MANAGED_INV_ADV | T2T_STG_MANAGED_INV_ADV_CAS |
| 36 | STG_PREPAID_CARDS | T2T_STG_PREPAID_CARDS_CAS |
| 37 | STG_TRADING_ACCOUNT | T2T_STG_TRADING_ACCOUNT_CAS |
| | | |

Executing the Asset and Other Account Summary Population T2T

Executing through Batch

Fact Common Account Summary table has to be loaded prior loading any of the other Account Summary tables. You can execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

Note: Before executing Account Summary Population T2Ts, we need to manually configure the setup_master table with required GAAP_CODEs. For an account we can load only one GAAP_CODE to Fact Common Account Summary. By default, OIDF installer will seed the following entry into SETUP_MASTER. While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of *FSDF Common Account Summary Data Load Process* process. The process can be executed through the Seeded Run *Financial Services Data Foundation Sourced Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Table 1. Configuration

| V_COMPONENT_CODE | V_COMPONENT_DESC | V_COMPONENT_VALUE |
|------------------|------------------|-------------------|
| DEFAULT_GAAP | DEFAULT_GAAP | USGAAP |

For all other GAAP codes, we need to update SETUP_MASTER manually before running each Account Summary Population T2Ts.

Fact Common Account Summary - Batch Execution

A seeded batch, <Infodom>_STG_TO_FCAS has to be executed for the required MIS Date.

Alternatively, following steps will help you create a new batch:

- 1. From the Home menu, click **Operations** and select **Batch Maintenance**.
- 2. Click **New Batch** ('+' symbol in Batch Name container). Enter the **Batch Name** and **Description**.
- 3. Click Save.
- 4. Click the check box in the Batch Name container to select the Batch, you created in the earlier step.
- 5. Enter the Task ID and Description.
- 6. Select Load Data from the Components list.
- 7. Select the following from the Dynamic Parameters List:
 - **Datastore Type**: Select the appropriate datastore from the list.
 - **Datastore Name**: Select the appropriate name from the list.
 - **IP address**: Select the IP address from the list.
 - Load Mode: Select Table to Table from the list.
 - **Source Name**: Select <T2T Source Name> from the list.
 - File Name: Select the T2T name for the source stage channel table you want to process.
- 8. Click Save.

Data file name will be blank for any Table to Table Load mode.

Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

For example, default value is [DRCY]='USD' Here 'USD' acts as reporting currency parameter to T2T.

- 9. Repeat steps 4 to 8 for adding the remaining T2Ts within the same batch definition.
- 10. Execute the batch created in the preceding steps.

Fact Common Account Summary - Run Execution

Alternatively, Stage Common Account Summary can be executed through Run Rule Framework.

Following steps will help you create a new batch:

- 1. From the Home menu, click Rules Framework and select Process.
- 2. Select Fct_Comm_Acct_Summ_Process Process and select Edit.
- 3. Click the **Component** if you wish to change the Parameter.
- 4. Select the required T2T and click the **Yellow Drop Down** Button. Repeat as many as T2Ts need to be changed.
- 5. Update the Parameter Value and click **OK**. For example, default value is "DRCY", "USD". Here 'USD' acts as reporting currency parameters to T2T.
- 6. Save the **Process**, Click **Save**.
- 7. Click **NO** in the Dialogue Box as we need to save it as the same version.
- 8. Close the **Dialogue Box**.
- 9. Open the **RUN** menu from **Rules Frame Work**.
- 10. Select Comm Acc Summ Load Run and click the Fire Run button.
- 11. Choose the Create & Execute Option from Batch Menu and Choose the required MIS Date.
- 12. Click **OK** to execute the RUN.
- 13. It will show the Batch execution is in Progress Dialogue. Close the Dialogue Box.
- 14. Click Batch Progressing Report from Operations Menu. And note down the Batch Run ID.
- 15. Click Batch Monitor from Operations Menu.
- 16. Type the noted **Run ID** in **Batch ID** Like column and click the **Search** button.
- 17. Select the respective batch, Select Information Date and Batch Run ID from Batch Details tab and click the **Start Monitoring** button.
- 18. Check the Status of Each Task in the Run.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t. The file name will have the batch execution ID.

The error log table in atomic schema is: FCT_COMMON_ACCOUNT_SUMMARY\$

Asset and Other Account Summary T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

Handling Alternate Currency

Exchange rates are provided by the customers as download. The applications may require the information in different format, the current exchange rate population is enhanced to store the following variations.

Inverse Rate: When the exchange rate information of two currencies are provided for a base and a counter currency, the inverse rates if not available is derived and populated.

Triangulation Rate: When exchange rate information of two pairs are available as part of download, with a common currency in each of the pair, exchange rate for currencies not common as part of the download pair is derived and populated.

Execution of Currency Exchange Rates Population T2T

The batch <Infodom>_ POP_EXCHANGE_RATES needs to be executed to populate fsi_exchange_rates as the entries in setup_master are seeded during installation.

Note: FSI_EXCHANGE_RATES table has to be loaded prior loading any of the other Account Summary tables.

- Metadata Browser
- Common Account Summary

Currency Execution Rates - Batch Execution

A seeded batch, <Infodom>_POP_EXCHANGE_RATES has to be executed for the required MIS Date.

Alternatively, following steps will help you create a new batch:

- 1. From the Home menu, click **Operations** and select **Batch Maintenance**.
- 2. Click New Batch ('+' symbol in Batch Name container). Enter the Batch Name and Description.
- 3. Click Save.
- 4. Click the check box in the Batch Name container to select the Batch, you created in the earlier step.
- 5. Enter the Task ID and Description.
- 6. Select Load Data from the Components list.
- 7. Select the following from the Dynamic Parameters List:

- **Datastore Type**: Select the appropriate datastore from the list.
- **Datastore Name**: Select the appropriate name from the list.
- IP address: Select the IP address from the list.
- Load Mode: Select Table to Table from the list.
- Source Name: Select <T2T Source Name>from the list.
- File Name: Select the T2T name for the source stage channel table you want to process.
- 8. Click Save.

Data file name will be blank for any Table to Table Load mode. Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

9. Execute the batch created in the preceding steps.

CHAPTER 15 Customer Summary Population

This chapter provides information about Customer Summary Population in the Oracle Insurance Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Common Customer Summary Tables
- Prerequisites
- Executing the Customer Summary Population T2T

Overview of Common Customer Summary Tables

Fact Common Customer Summary table stores attributes pertaining to customer related data on an 'as-is' basis received from the source system. Data is populated into this table using T2T. Customer balances are derived from account summary. Customer relationship table drives the relationship between accounts and customers. Common customer summary data is populated for all the active customers in customer dimension.

Prerequisites

Following are the lists of tables used in the population of Fact Common Customer Summary and these tables are required to be loaded prior to running the T2T:

- DIM_CUSTOMER
- DIM_BANDS
- DIM_EDUCATION
- DIM_CUSTOMER_TYPE
- DIM_GENDER
- DIM_INDUSTRY
- DIM_CHANNEL
- DIM_GEOGRAPHY
- DIM_MARITAL_STATUS
- DIM_MANAGEMENT
- DIM_PROFESSION
- DIM_CREDIT_RATING
- DIM_VINTAGE
- DIM_MIGRATION_REASONS
- FCT_COMMON_ACCOUNT_SUMMARY
- FCT_LIMITS_SUMMARY

- STG_CUSTOMER_DETAILS
- STG_PARTY_RATING_DETAILS
- STG_PARTY_FINANCIALS

Dimensions tables are loaded through the SCD process. The fact tables FCT_COMMON_ACCOUNT_SUMMARY is loaded from the respective T2T processes.

Executing the Customer Summary Population T2T

Executing through Batch

Fact Common Customer Summary T2T can be executed by executing task present in the seeded batch <Infodom>_STG_TO_FCCS.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch <Infodom>_STG_TO_FCCS where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of *FSDF Common Customer Summary Data Load Process* process. The process can be executed through the Seeded Run *Financial Services Data Foundation Sourced Run*.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the \$FIC_DB_HOME/logs/t2t directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

CHAPTER 16 Fact Transaction Summary

This chapter provides information about Fact Transaction Summary in the Oracle Insurance Data Foundation application and step-by-step instructions to use this section.

The Fact Transaction Summary stores data from the stage transactions table for further operation reporting. The data is moved through a T2T process from stage to fact, which ensures that the stage data is available in a single table in the result area.

This chapter includes the following topics:

- Table to Table
- Executing the Fact Transaction Summary

Table to Table

Table to Table seeded definitions are provided for loading data into Target table Fct Transaction Summary (FCT_TRANSACTION_SUMMARY)

| Sl No. | Source Table Name | T2T Definition Name |
|--------|-------------------------------|---------------------------------------|
| 1 | STG_ANNUITY_TXNS | T2T_STG_ANNUITY_TXNS_FTS |
| 2 | STG_BILL_CONTRACTS_TXNS | T2T_STG_BILL_CONTRACTS_TXNS_FTS |
| 3 | STG_BORROWING_COMMITMENT_TXNS | T2T_STG_BORROWING_COMMITMENT_TXNS_FTS |
| 4 | STG_BORROWINGS_TXNS | T2T_STG_BORROWINGS_TXNS_FTS |
| 5 | STG_CARDS_PAYMENT_TXNS | T2T_STG_CARDS_PAYMENT_TXNS_FTS |
| 6 | STG_CARDS_SETTLEMENT_TXNS | T2T_STG_CARDS_SETTLEMENT_TXNS_FTS |
| 7 | STG_CASA_TXNS | T2T_STG_CASA_TXNS_FTS |
| 8 | STG_COMMITMENT_CONTRACT_TXNS | T2T_STG_COMMITMENT_CONTRACT_TXNS_FTS |
| 9 | STG_CORRESPONDENT_ACCT_TXNS | T2T_STG_CORRESPONDENT_ACCT_TXNS_FTS |
| 10 | STG_CREDIT_DERIVATIVES_TXNS | T2T_STG_CREDIT_DERIVATIVES_TXNS_FTS |
| 11 | STG_FOREX_TXNS | T2T_STG_FOREX_TXNS_FTS |
| 12 | STG_FUTURES_TXNS | T2T_STG_FUTURES_TXNS_FTS |
| 13 | STG_GUARANTEES_TXNS | T2T_STG_GUARANTEES_TXNS_FTS |
| 14 | STG_IJARAH_TXNS | T2T_STG_IJARAH_TXNS_FTS |
| 15 | STG_INVESTMENT_TXNS | T2T_STG_INVESTMENT_TXNS_FTS |
| 16 | STG_ISTISNA_TXNS | T2T_STG_ISTISNA_TXNS_FTS |
| 17 | STG_LC_TXNS | T2T_STG_LC_TXNS_FTS |
| 18 | STG_LEASES_TXNS | T2T_STG_LEASES_TXNS_FTS |
| 19 | STG_LOAN_CONTRACT_TXNS | T2T_STG_LOAN_CONTRACT_TXNS_FTS |
| 20 | STG_MM_TXNS | T2T_STG_MM_TXNS_FTS |
| 21 | STG_MUDARABAH_TXNS | T2T_STG_MUDARABAH_TXNS_FTS |
| 22 | STG_MURABAHAH_TXNS | T2T_STG_MURABAHAH_TXNS_FTS |
| 23 | STG_MUSHARAKAH_TXNS | T2T_STG_MUSHARAKAH_TXNS_FTS |

| Sl No. | Source Table Name | T2T Definition Name |
|--------|------------------------------|--------------------------------------|
| 24 | STG_MUTUAL_FUNDS_TXNS | T2T_STG_MUTUAL_FUNDS_TXNS_FTS |
| 25 | STG_OD_ACCOUNTS_TXNS | T2T_STG_OD_ACCOUNTS_TXNS_FTS |
| 26 | STG_OPTION_CONTRACTS_TXNS | T2T_STG_OPTION_CONTRACTS_TXNS_FTS |
| 27 | STG_RETIREMENT_ACCOUNTS_TXNS | T2T_STG_RETIREMENT_ACCOUNTS_TXNS_FTS |
| 28 | STG_SALAM_TXNS | T2T_STG_SALAM_TXNS_FTS |
| 29 | STG_SUKUK_TXNS | T2T_STG_SUKUK_TXNS_FTS |
| 30 | STG_SWAP_ACCOUNT_TXNS | T2T_STG_SWAP_ACCOUNT_TXNS_FTS |
| 31 | STG_TERMDEPOSITS_TXNS | T2T_STG_TERMDEPOSITS_TXNS_FTS |
| 32 | STG_TRADING_ACCOUNT_TXNS | T2T_STG_TRADING_ACCOUNT_TXNS_FTS |
| 33 | STG_TRUSTS_TXNS | T2T_STG_TRUSTS_TXNS_FTS |
| 34 | STG_COMMODITIES_TXNS | T2T_STG_COMMODITIES_TXNS_FTS |
| 35 | STG_CUSTODIAN_ACCOUNT_TXNS | T2T_STG_CUSTODIAN_ACCOUNT_TXNS_FTS |
| 36 | STG_PREPAID_CARDS_TXNS | T2T_STG_PREPAID_CARDS_TXNS_FTS |
| 37 | STG_REPO_TRANSACTIONS | T2T_STG_REPO_TRANSACTIONS_FTS |

Executing the Fact Transaction Summary

Execution through Batch

Fact Transaction Summary table has to be loaded prior loading any of the other Account Summary tables. You can execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

Fact Common Account Summary - Batch Execution.

A seeded batch, <Infodom>_STG_TO_FTS has to be executed for the required MIS Date. Alternatively, following steps will help you create a new batch:

- 1. From the Home menu, click Operations and select Batch Maintenance.
- 2. Click New Batch ('+' symbol in Batch Name container). Enter the Batch Name and Description.
- 3. Click Save.
- 4. Click the check box in the Batch Name container to select the Batch, you created in the earlier step.
- 5. Enter the **Task ID** and **Description**.
- 6. Select Load Data from the Components list.
- 7. Select the following from the Dynamic Parameters List:
 - Data Store Type
 - Datastore Name: Select the appropriate name from the list.
 - IP Address: Select the IP address from the list.
 - Load Mode Select Table to Table from the list.
 - Source Name: Select <T2T Source Name> from the list.
 - File Name: Select the T2T name for the source stage channel table you want to process.

8. Click Save.

Data file name will be blank for any Table to Table Load mode.

Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

For example, default value is [DRCY]='USD' Here 'USD' acts as reporting currency parameter to T2T.

- 9. Repeat steps 4 to 8 for adding the remaining T2Ts within the same batch definition.
- 10. Execute the batch created in the preceding steps.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of FSDF Transaction Summary Data Load Process process. The process can be executed through the Seeded Run Financial Services Data Foundation Sourced Run.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

CHAPTER 17 Loan Account Summary Population

This chapter provides information about Loan Account Summary Population in the Oracle Insurance Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Common Loan Account Summary Tables
- Overview of Loan Account Summary Population
- Executing the Loan Account Summary Population T2T
- Checking the Execution Status
- Loan Account Summary T2Ts

Overview of Common Loan Account Summary Tables

Loan Account Summary table is loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

The Fact Loan Account Summary stores data from the Stage Loan Contracts, Stage Leases Contracts and Stage OD Accounts for further operation and regulatory reporting.

Overview of Loan Account Summary Population

Table to Table seeded definitions are provided for loading data into the target table Fct Loan Account Summary (FCT_LOAN_ACCOUNT_SUMMARY):

| | Sl. No. | Source Table Name | T2T Definition Name |
|---|---------|----------------------|-------------------------------|
| | 1 | STG_LEASES_CONTRACTS | T2T_FLAS_STG_LEASES_CONTRACTS |
| | 2 | STG_LOAN_CONTRACTS | T2T_FLAS_STG_LOAN_CONTRACTS |
| ĺ | 3 | STG_OD_ACCOUNTS | T2T_FLAS_STG_OD_ACCOUNTS |

Executing the Loan Account Summary Population T2T

Executing through Batch

Fact Loan Account Summary T2T can be executed by executing task present in the seeded batch <INFODOM>_STG_TO_FCT_LOAN_ACC_SUM.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch <INFODOM>_STG_TO_FCT_LOAN_ACC_SUM where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.

5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Note: While executing through batch, the RUNSkey will be defaulted to -1.

Execution through Run Management

The T2T is part of **FSDF Run Execution Data Load Process** process. The process can be executed through the Seeded Run **Financial Services Data Foundation Execution Run**.

Note: While executing through Run, the RUNSkey will be autogenerated and stamped against each record.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the **\$FIC_DB_HOME/logs/t2t** directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t.

The file name will have the batch execution ID.

The error log table in atomic schema is: FCT_LOAN_ACCOUNT_SUMMARY\$.

Loan Account Summary T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 18 Mitigants Results Population

This chapter provides information about Populating Mitigants Results Tables in the Oracle Insurance Data Foundation Application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Mitigants Results Tables
- Overview of Mitigants Results Population
- Executing the Populating Mitigants Results T2T
- Checking the Execution Status
- Mitigants Results T2Ts

Overview of Mitigants Results Tables

Mitigants Results Tables are loaded from respective Stage tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework. Following are the Results Tables that stores Mitigants Information:

- FCT_MITIGANTS
- FCT_ACCOUNT_MITIGANT_MAP

Overview of Mitigants Results Population

Table to Table seeded definitions are provided for loading data into the target tables:

| Sl. No. | Source Table Name | Target Table Name | T2T Definition Name |
|---------|------------------------------|------------------------------|----------------------------------|
| 1 | STG_MITIGANTS | FCT_MITIGANTS | T2T_FCT_MITIGANTS |
| 2 | STG_ACCOUNT_MITIGANT _MAP | FCT_ACCOUNT_MITIGANT_ MAP | T2T_FCT_ACCOUNT_ MITIGANT_MAP |

Executing the Populating Mitigants Results T2T

Mitigants Results T2T can be executed by executing task present in the seeded batch <INFODOM>_STG_TO_FCT_MITIGANTS.

Following steps will help you to execute the batch:

- 1. Navigate to the Batch Execution screen.
- 2. Select the seeded batch <INFODOM>_STG_TO_FCT_MITIGANTS where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the **\$FIC_DB_HOME/logs/t2t** directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t.

The file name will have the batch execution ID.

Following are the error log tables in atomic schema:

- FCT_MITIGANTS\$
- FCT_ACCOUNT_MITIGANT_MAP\$

Mitigants Results T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 19

Fiduciary Services Investment Summary Population

This chapter provides information about Fiduciary Services Investment Summary Population in the Oracle Insurance Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Fiduciary Services Investment Summary Table
- Overview of Fiduciary Services Investment Summary Population
- Executing the Fiduciary Services Investment Summary Population T2T
- Checking the Execution Status
- Fiduciary Services Investment Summary T2Ts

Overview of Fiduciary Services Investment Summary Tables

Fiduciary Services Investment Summary table is loaded from the staging product processor table using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

A fiduciary is responsible for managing the assets of another person, or of a group of people. The fiduciary is expected to manage the assets for the benefit of the customer. The customer can open a trust account that would have the different investments that the person would do. The customer would have different assets under the trust such as Investments, Mututal Funds, CASA, Term Deposit etc. So, in these T2Ts the target table is loaded only with those records which are of fiduciary service type which is identified using Parent Account Number in each Product Processor table.

The Fact Fiduciary Services Investment Summary stores records from the Stage CASA, Stage Custodial Accounts, Stage Investments, Stage Managed Inv Adv, Stage Mutual Funds, Stage Retirement Accounts, Stage TD Contracts and Stage Trusts, that has valid Parent Account Number for further operation and regulatory reporting.

Overview of Fiduciary Services Investment Summary Population

Table to Table seeded definitions are provided for loading data into the target table Fct Fiduciary Serv Invst Summary (FCT_FIDUCIARY_SERV_INVST_SUMM):

| Sl. No. | Source Table Name | T2T Definition Name |
|---------|-------------------------|-----------------------------------|
| 1 | STG_CASA | T2T_FFSIS_STG_CASA |
| 2 | STG_CUSTODIAL_ACCOUNTS | T2T_FFSIS_STG_CUSTODIAL_ACCOUNTS |
| 3 | STG_INVESTMENTS | T2T_FFSIS_STG_INVESTMENTS |
| 4 | STG_MANAGED_INV_ADV | T2T_FFSIS_STG_MANAGED_INV_ADV |
| 5 | STG_MUTUAL_FUNDS | T2T_FFSIS_STG_MUTUAL_FUNDS |
| 6 | STG_RETIREMENT_ACCOUNTS | T2T_FFSIS_STG_RETIREMENT_ACCOUNTS |
| 7 | STG_TD_CONTRACTS | T2T_FFSIS_STG_TD_CONTRACTS |
| 8 | STG_TRUSTS | T2T_FFSIS_STG_TRUSTS |

Executing the Fiduciary Services Investment Summary Population T2T

Fact Fiduciary Services Investment Summary T2T can be executed by executing task present in the seeded batch <INFODOM> STG TO FCT FID SERV INV.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch <INFODOM>_STG_TO_FCT_FID_SERV_INV where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the **\$FIC_DB_HOME/logs/t2t** directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory **\$FIC_DB_HOME/log/t2t**.

The file name will have the batch execution ID.

The error log table in atomic schema is: FCT_FIDUCIARY_SERV_INVST_SUMM\$.

Fiduciary Services Investment Summary T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 20 Other Miscellaneous Population

This chapter provides information about Populating various other Results Tables in the Oracle Insurance Data Foundation Application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Other Results Tables
- Overview of Other Results Population
- Executing the Other T2T Batches
- Checking the Execution Status
- Various Other Results T2Ts

Overview of Other Results Tables

Other Results Tables are loaded from respective Stage tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework. Following are the Results Tables that stores other results:

- FCT_POLICY_DETAILS
- FCT_COMMON_POLICY_SUMMARY
- FCT_ASSETS_SOLD
- FCT_LOANS_SERVICED
- FCT_FIXED_ASSETS
- FCT_CREDIT_LINE
- FCT_LEGAL_ENTITY_DETAILS
- FCT_CAP_INSTR_POSITIONS
- FCT_CAP_INSTR_TXNS
- FCT_FUND_CIS_COMPOSITION
- FCT_MERCHANT_BANKING
- FCT_SPEND_OBLIGATIONS
- FCT_ACCT_WRITE_OFF_DETAILS
- FCT_RECOVERY
- FCT_ACCT_RECOVERY_DETAILS
- FCT_INSTR_PROPOSED_TXNS
- FCT_LITIGATION_DETAILS

Overview of Other Results Population

| Sl. No. | Source Table Name | Target Table Name | T2T Definition Name |
|---------|---------------------------------|--------------------------------|------------------------------------------|
| 1 | STG_HEALTH_INS_ CONTRACTS | FCT_POLICY_DETAILS | T2T_FPDS_STG_HEALTH_INS_ CONTRACTS |
| 2 | STG_PROP_CASUALTY_ CONTRACTS | FCT_POLICY_DETAILS | T2T_FPDS_STG_PROP_CASUAL TY_CONTRACTS |
| 3 | STG_LIFE_INS_CONTRACTS | FCT_POLICY_DETAILS | T2T_FPDS_STG_LIFE_INS_ CONTRACTS |
| 4 | STG_ANNUITY_CONTRACTS | FCT_POLICY_DETAILS | T2T_FPDS_STG_ANNUITY_ CONTRACTS |
| 5 | STG_HEALTH_INS_ CONTRACTS | FCT_COMMON_POLICY_ SUMMARY | T2T_FCPS_STG_HEALTH_INS_ CONTRACTS |
| 6 | STG_PROP_CASUALTY_ CONTRACTS | FCT_COMMON_POLICY_ SUMMARY | T2T_FCPS_STG_PROP_ CASUALTY_CONTRACTS |
| 7 | STG_LIFE_INS_CONTRACTS | FCT_COMMON_POLICY_ SUMMARY | T2T_FCPS_STG_LIFE_INS_ CONTRACTS |
| 8 | STG_ANNUITY_CONTRACTS | FCT_COMMON_POLICY_ SUMMARY | T2T_FCPS_STG_ANNUITY_ CONTRACTS |
| 9 | STG_ASSETS_SOLD | FCT_ASSETS_SOLD | T2T_FCT_ASSETS_SOLD |
| 10 | STG_LOANS_SERVICED | FCT_LOANS_SERVICED | T2T_FCT_LOANS_SERVICED |
| 11 | STG_FIXED_ASSETS_ DETAILS | FCT_FIXED_ASSETS | T2T_FCT_FIXED_ASSETS |
| 12 | STG_CREDIT_LINE_ DETAILS | FCT_CREDIT_LINE | T2T_FCT_CREDIT_LINE |
| 13 | STG_LEGAL_ENTITY_ DETAILS | FCT_LEGAL_ENTITY_ DETAILS | T2T_FCT_LEGAL_ENTITY_ DETAILS |
| 14 | STG_CAP_INSTR_POSITIONS | FCT_CAP_INSTR_POSITIONS | T2T_FCT_CAP_INSTR_ POSITIONS |
| 15 | STG_CAP_INSTR_TXNS | FCT_CAP_INSTR_TXNS | T2T_FCT_CAP_INSTR_TXNS |
| 16 | STG_FUND_CIS_ COMPOSITION | FCT_FUND_CIS_ COMPOSITION | T2T_FCT_FUND_CIS_ COMPOSITION |
| 17 | STG_MERCHANT_ BANKING | FCT_MERCHANT_BANKING | T2T_FCT_MERCHANT_ BANKING |
| 18 | STG_SPEND_OBLIGATIONS | FCT_SPEND_OBLIGATIONS | T2T_FCT_SPEND_ OBLIGATIONS |
| 19 | STG_ACCT_WRITE_OFF_ DETAILS | FCT_ACCT_WRITE_OFF_ DETAILS | T2T_FCT_ACCT_WRITE_OFF_ DETAILS |
| 20 | STG_RECOVERIES | FCT_ACCT_RECOVERY_ DETAILS | T2T_FCT_ACCT_RECOVERY_ DETAILS |
| 21 | STG_ACCT_RECOVERY_ DETAILS | FCT_RECOVERY | T2T_FCT_RECOVERY |

Table to Table seeded definitions are provided for loading data into the target tables:

| Sl. No. | Source Table Name | Target Table Name | T2T Definition Name |
|---------|-----------------------------|-----------------------------|---------------------------------|
| 22 | STG_INSTR_PROPOSED_ TXNS | FCT_INSTR_PROPOSED_ TXNS | T2T_FCT_INSTR_PROPOSED_ TXNS |
| 23 | STG_LITIGATION_DETAILS | FCT_LITIGATION_DETAILS | T2T_FCT_LITIGATION_ DETAILS |

Executing the Other T2T Batches

Other Results T2T can be executed by executing task present in the following seeded batches:

- <INFODOM>_STG_TO_FCT_ACC_RECOVERY
- <INFODOM>_STG_TO_FCT_ACC_WRITEOFF
- <INFODOM>_STG_TO_FCT_ASSETS_SOLD
- <INFODOM>_STG_TO_FCT_CAP_INSTR
- <INFODOM>_STG_TO_FCT_CREDIT_LINE
- <INFODOM>_STG_TO_FCT_FID_SERV_INV
- <INFODOM>_STG_TO_FCT_FIXED_ASSETS
- <INFODOM>_STG_TO_FCT_FUND_CIS_COM
- <INFODOM>_STG_TO_FCT_LEGAL_ENTITY
- <INFODOM>_STG_TO_FCT_LOANS_SERV
- <INFODOM>_STG_TO_FCT_MER_BANKING
- <INFODOM>_STG_TO_FCT_RECOVERY
- <INFODOM>_STG_TO_FCT_SPEND_OBLIG
- <INFODOM>_STG_TO_FCT_INSTR_PR_TXN
- <INFODOM>_STG_TO_FCT_LITIGATION
- <INFODOM>_STG_TO_FCT_COMMON_POLICY
- <INFODOM>_STG_TO_FCT_POLICY_DETAIL

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch **<INFODOM>_ where Infodom** is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the **\$FIC_DB_HOME/logs/t2t** directory:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide.*

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory **\$FIC_DB_HOME/log/t2t**. The file name will have the batch execution ID.

Following are the error log tables in atomic schema:

- FCT_ASSETS_SOLD\$
- FCT_LOANS_SERVICED\$
- FCT_FIXED_ASSETS\$
- FCT_CREDIT_LINE\$
- FCT_LEGAL_ENTITY_DETAILS\$
- FCT_CAP_INSTR_POSITIONS\$
- FCT_CAP_INSTR_TXNS\$
- FCT_FUND_CIS_COMPOSITION\$
- FCT_MERCHANT_BANKING\$
- FCT_SPEND_OBLIGATIONS\$
- FCT_ACCT_WRITE_OFF_DETAILS\$
- FCT_RECOVERY\$
- FCT_ACCT_RECOVERY_DETAILS\$
- FCT_INSTR_PROPOSED_TXNS\$
- FCT_LITIGATION_DETAILS\$
- FCT_COMMON_POLICY_SUMMARY\$
- FCT_POLICY_DETAILS\$

Various Other Results T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 21 Populating Party Attributes

This chapter provides information about Populating various Party Attributes Results Tables in the Oracle Insurance Data Foundation Application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of Party Attributes Results Tables
- Overview of Party Attributes Results Population
- Executing the Populating Party Attributes T2T
- Checking the Execution Status
- Party Attributes Results T2Ts

Overview of Party Attributes Results Tables

Party Attribute Results Tables are loaded from respective Stage tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework. Following are the Results Tables that stores Party Attributes:

- FCT_PARTY_ADDRESS_MAP
- FCT_PARTY_EMAIL_MAP
- FCT_PARTY_PHONE_MAP
- FCT_PARTY_FINANCIAL_DETAIL
- FCT_PARTY_RATING_DETAILS
- FCT_ACCOUNT_RATING_DETAILS

Overview of Party Attributes Results Population

Table to Table seeded definitions are provided for loading data into the target tables:

| Sl. No. | Source Table Name | Target Table Name | T2T Definition Name |
|---------|--------------------------------|--------------------------------|------------------------------------|
| 1 | STG_PARTY_ADDRESS_MAP | FCT_PARTY_ADDRESS_MAP | T2T_FCT_PARTY_ADDRESS_ MAP |
| 2 | STG_PARTY_EMAIL_MAP | FCT_PARTY_EMAIL_MAP | T2T_FCT_PARTY_EMAIL_ MAP |
| 3 | STG_PARTY_PHONE_MAP | FCT_PARTY_PHONE_MAP | T2T_FCT_PARTY_PHONE_ MAP |
| 4 | STG_PARTY_FINANCIALS | FCT_PARTY_FINANCIAL_ DETAIL | T2T_FCT_PARTY_FINANCIAL _DETAIL |
| 5 | STG_PARTY_RATING_ DETAILS | FCT_PARTY_RATING_ DETAILS | T2T_FCT_PARTY_RATING_ DETAILS |
| 6 | STG_ACCOUNT_RATING_ DETAILS | FCT_ACCOUNT_RATING_ DETAILS | T2T_FCT_ACCOUNT_RATING _DETAILS |

Executing the Populating Party Attributes T2T

Party Attributes Results T2T can be executed by executing task present in the seeded batch <INFODOM>_STG_TO_FCT_PARTY_ATTR.

Following steps will help you to execute the batch:

- 1. Navigate to the **Batch Execution** screen.
- 2. Select the seeded batch **<INFODOM>_STG_TO_FCT_PARTY_ATTR** where Infodom is the information domain where application is installed.
- 3. Select the **AS_OF_DATE** for which source customer information is required to be loaded into the table.
- 4. Click Execute Batch.
- 5. Monitor the status of the batch from Batch Monitor screen of OFSAAI.

Error Messages

Following are the most common error message which will be logged in the T2T log file present in the \$FIC_DB_HOME/logs/t2t folder:

• Unique Constraint Violation: This occurs when attempting re-load or loading existing records for the already executed AS_OF_DATE.

Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to Oracle Financial Services Analytical Applications Infrastructure User Guide.

The status messages in Batch Monitor are:

- N Not Started
- O On Going
- F Failure
- S Success

The execution log can be accessed on the application server in the following directory \$FIC_DB_HOME/log/t2t. The file name will have the batch execution ID.

Following are the error log tables in atomic schema:

- FCT_PARTY_ADDRESS_MAP\$
- FCT_PARTY_EMAIL_MAP\$
- FCT_PARTY_PHONE_MAP\$
- FCT_PARTY_FINANCIAL_DETAIL\$
- FCT_PARTY_RATING_DETAILS\$
- FCT_ACCOUNT_RATING_DETAILS\$

Party Attributes Results T2Ts

T2T definitions can be retrieved as an excel document for reference from the metadata browser of the Unified Metadata Manager (UMM) component of OFSAAI.

CHAPTER 22 Using OIDF

This chapter details on how the OIDF models are delivered and how they can be installed and configured into the required environment. The first two sections gives you an understanding of the Delivery Mechanism and OIDF Installation. The Data Dictionary and Download Specifications sections explains how the self-documentingERwin file includes the data dictionary and Download Specifications within ERwin itself.

In addition, the Extending Data Model section has guidelines for customization and designing the Staging and Results Area of Physical Data Model.

This chapter includes the following topics:

- Delivery Mechanism
- Installing OIDF
- OIDF Supporting Documentation
- Data Dictionary
- Download Specifications
- Extending OIDF Physical Data Model

Delivery Mechanism

OIDF being a collection of data model artifacts, includes both a readily deployable model (the OIDF Physical Data Model) as well as a reference data model (the OIDF Logical Data Model). Both the data models (Physical and Logical) are delivered as ERwin files. The OIDF hence requires a license of the ERwin Data modeling tool.

ERwin is the current and only supported modeling tool to view and edit the model. Currently, the minimum version of ERwin supported is 7.1+.

Note: OFS AAI supports data model upload for data models generated using ERwin. For information on compatible versions, refer to the corresponding release **Technology Matrix**.

Installing OIDF

As detailed earlier, OIDF requires the Oracle Financial Services Analytical Application Infrastructure release 8.0.3.0.0 to deploy and operate.

Please refer to the separate OIDF Install Guide 8.0.4.0.0 for step-wise instructions how to configure and install OIDF into an AAI instance.

OIDF Supporting Documentation

The preceding sections have provided an overview of the organization of the OIDF, and its various component data models. Appendix A, page A-1 explains the naming conventions used in OIDF data model.

The OIDF is a detailed model, with nearly 850 entities across both the Staging and Results Area in the physical data model, with another 800+ entities in the Logical Data Model.

Since it is delivered as an ERwin file, all the detailed metadata for the model (Table, Column, Entity, Attribute, Relationship) definitions are embedded in the file itself. The advantage of this approach is that any site-specific customizations to OIDF can be performed within ERwin, and the updated documentation is retained in the file in the form of additional metadata.

The 2 key detailed artifacts of OIDF documentation that can be extracted from within the ERwin data model are:

- 1. Data Dictionary
- 2. Download Specifications

For more information on Dimension Management and AMHM, refer to the *Dimension Management* chapter in Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide and *Dimension Load Procedure* section in Oracle Financial Services Analytical Applications Data Model Utilities 7.1 / 7.2 User Guide.

Data Dictionary

The data dictionary for OIDF can be extracted from the ERwin file using ERwin's reporting capability, using a pre-built set of templates for data extraction.

Instructions for how to do so are provided in a separate accompanying document that provides step-by-step instructions. See the Technical Whitepaper on *Data Model Document Generation*, which details how to extract the data dictionary from ERwin section.

Download Specifications

As detailed in the staging area section, the mapping from the Staging Data Model to use cases, called a **download specification** provides an efficient way to manage the sourcing of data into the OIDF staging area. This is done by mapping the staging model at a column level to use cases. This mapping information is embedded in ERwin at a column level using metadata called **User Defined Properties (UDPs)**.

The Download specifications can be extracted using pre-built templates, in a manner similar to the Data Dictionary. Instructions for how to do so are also provided in the Technical Whitepaper on *Data Model Document Generation*, which details how to extract the data dictionary from ERwin section.

Extending OIDF Physical Data Model

Oracle Insurance Data Foundation (OIDF) Physical Data Model (PDM) design evolves as the analytical use cases covered by the OIDF and enhanced as improvements are engineered as a part of the product lifecycle. While the model satisfies a very large number of analytical use cases across Risk, Finance, Marketing, and Compliance subject areas, customers may need to customize the model for a specific installation. These custom changes however may impact the ability of the OIDF installation to be upgraded to later versions of the product. The guidelines outlined in this section will help minimize the impact of custom changes to the model when the installation needs to be upgraded to a later version of OIDF.

This section consists of the following sub-sections:

- Customization Process Guidelines
- Staging Area Design Guidelines
- Results Area Design Guidelines
- Upgrading Data Model

Customization Process Guidelines

It is strongly recommended to consult OFSAA Support / Field Engineers / Consulting Staff before making any changes to the PDM for the following reasons:

• Tables in the PDM common Staging Area are designed to meet the complex needs of data sourcing for many different financial services analytical use cases and as such have a large number of columns, and the need for the modification should be reviewed with OFSAA consultants.

The Results Area star schemas have been designed with a set of common fact tables and dimension tables to support integration of results from multiple analytical applications and any customization should be reviewed in order to ensure that the unified reporting capabilities of the model are preserved.

After a review with OFSAA field consultants, an extension to the model should first be logged as a request for product enhancement via the standard support process. This allows:

- 1. Product support and product management teams to identify if a similar enhancement request was submitted on behalf of another customer so that a uniform Model Enhancement design recommendation can be provided to all customers.
- 2. OIDF product management to evaluate if the enhancement request is applicable more broadly to other customers and if the change should in fact is to be taken as a design requirement for subsequent releases.

Note: OFS AAI supports data model upload for data models generated using ERwin 7.1.x, 7.2.x, 7.3.x, 9.0.x, 9.2.x, and 9.5.x versions.

Staging Area Design Guidelines

Following are the Staging Area Design Guidelines:

- 1. Ensure that the naming conventions as detailed in Appendix A, page A-1 section are followed.
- 2. Entity relationships and constraints are enforced through OFSAAI data management toolkit and are not enforced via database referential integrity checks.

The model should not be changed to enforce referential integrity checks and other data quality checks via database definitions.

- 3. All Staging Area tables must have a column that identifies the system from where data is sourced (source system ID).
- 4. The code columns in master data tables and tables that contain dimension data should be designed to hold alphanumeric values.
- 5. The Domain dictionary maintains the list of attribute domains. New columns must be identified with an existing domain instead of explicitly defining column data type and valid values. See guidelines in Appendix A, page A-1 section on the use of defined Domains.
- 6. Tables (e.g. reference or look up tables with static data) needed for only a specific application or use case should be a part of the application specific processing area and should not be part of the common Staging Area in OIDF.
- 7. OIDF download specifications identify the tables and columns for which data needs to be sourced for a specific analytical use case. Any new tables and/or column should have its "APPLICATION USAGE" UDP set with the appropriate application value so that the generated download specification includes the customized column and table. The master list of UDP's are maintained as a central dictionary in ERwin.
- 8. All columns added or modified as a part of the customization should be marked as such:
- The column level UDP named "CUSTOM" must be marked YES, identifying the column as a custom property.
- The "Customization Reason" UDP should be specified. Valid values are provided as a drop down list and can be "Pending Enhancement Request" or "Specific to Customer".

The "Type of Change" UDP should be set to the appropriate type of change as provided in the drop down list (Length, Datatype, Logical Name, Description, and Addition).

Results Area Design Guidelines

The Results Area consists of a set of star schemas with conformed dimensions and common fact tables. Integration of results from multiple application use cases is achieved by having common fact tables for customer and account level measures. The design of the results area allows for drill-down and drill-across BI reporting, which should be preserved after customization.

Following are the Results Area Design Guidelines:

- 1. Ensure that the naming convention for results tables and columns detailed in Appendix A, page A-1 section is followed.
- 2. Dimensional conformance should be maintained: The same dimensional information should not be represented in different forms. In addition, dimension table design should be compatible with the slowly changing dimension process design and so should have the required columns.
- 3. The common accounts summary fact table.

(FCT_COMMON_ACCOUNTS_SUMMARY) consolidates measures at an account level granularity for all applications. Account level attributes captured from source systems in staging and those attributes that do not vary between runs should be part of the common accounts summary table. This enables integrated reporting of account information.

Note: Any account level application specific attributes and measures that are computed by applications should be part of the application specific account summary entities.

4. The common customer summary fact table.

(FCT_COMMON_CUSTOMER_SUMMARY) consolidates measures at a customer level granularity for all applications. Customer level attributes captured from source systems in staging and those attributes that do not vary between runs should be part of the common customer summary table. This enables integrated reporting of customer information.

Note: Any customer level application specific attributes and measures that are computed by applications should be part of the application specific customer summary entities.

- 5. Aggregate Entities: Depending on performance requirements for each application, information can be reported out of aggregate entities. However, a drill through to the base entity from the aggregate entity is mandatory.
- 6. Reporting and local currency support: Include additional attributes in the fact tables to store reporting and local currency equivalent of base measures. These attributes need to be computed by looking into the exchange rates.
- 7. Support for full history: Any new tables in the Results area should be designed to support maintenance of full history.

Upgrading Data Model

The model upgrade process is achieved through the ERwin Model Compare and Merge utility. Refer to ERwin documentation for details on Menu options, process of comparing, and merging models.

CHAPTER 23 OIDF Interface with QMR 2.0.0.0.0

This chapter provides information about Metadata Browser in the Oracle Financial Services Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview
- Prerequisites
- Description of Extracts from OIDF
- Procedure to Generate Flat Data Files from OIDF
- Procedure to Upload SCR Data
- Data Mapping
- Data Population
- Input Data Preparation
- Run Overview

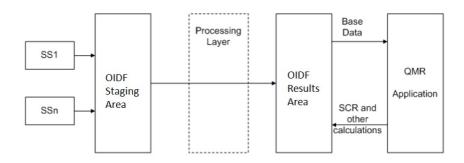
Overview

Oracle Insurance Data Foundation (OIDF) stores insurance specific data of an Insurance Company covering wide range of functions such as underwriting, policy, premium, claim, risk numbers, valuations, and risk reporting.

QMR is a Quantitative Management Reporting application from Oracle. QMR is a Hyperion Financial Management (HFM) based application and is used for Solvency II regulatory reporting. QMR produces highly formatted Quantitative Reporting Template (QRT) based reports as specified by European Insurance and Occupational Pensions Authority (EIOPA).

QMR integration refers to data flow between System Source (SS) of OIDF and QMR application. OIDF consists of staging and reporting area tables. This integration is between result data model and QMR.

Figure 7.



The base data from source systems resides in OIDF staging area. From there, it moves to the OIDF processing area. The data is then processed and moved into the OIDF results area.

Data flow between QMR and OIDF is a two way process:

- 1. Data is extracted from OIDF using this interface and uploaded into the QRM 2.0.0.0 application. The application QMR 2.0.0.0 is then used to generate QRT based reports.
- 2. SCR numbers calculated in QMR will then be ported back into OIDF.

Prerequisites

For the installation of QMR - OIDF Integration, the following prerequisites need to be completed:

- Installation of QMR 2.0.0.0 application.
- Installation of OIDF 8.0.4.0.0

Description of Extracts from OIDF

OIDF extracts provide data pertaining to the various QRT reports in the granularity and format required by QMR 2.0.0.0. Any changes in QMR data requirement may require changes to be made to the OIDF extracts as well. Files required by QMR application depend upon the entity type and their location. Details of the kind of files generated for each entity type is as follows:

If the Legal Entity is the Group Holding Company:

- Global Data file containing exchange rates and inflation rates is generated.
- Group Data file containing ownership information, group reporting percentages, and group SCR capital add-ons is generated.
- Five files containing details of Intra Group Transactions 4 Files, Risk Concentration 1 File for processing through FDM.
- If the Legal Entity is an Insurance Company within the group and located in European Economic Area (EEA):
- A single file containing data for all schedules processed in HFM (Balance Sheet, Own Funds, Re-Insurance, SCR and MCR inputs, Technical Provisions, Country, and Cover) is generated.
- Eleven files containing data for each schedule processed in FDM (Assets 8 Files, Product Details 3 Files) is generated.

If the Legal Entity is an Insurance Company within the group located outside European Economic Area (EEA):

• A single file with Insurance entity MCR, SCR, and OF equivalent data only is generated.

If the Legal Entity is Non-Insurance Company within the group:

• A single file with MCR, SCR, and OF equivalent data only is generated.

Further details regarding the QRT reports linked to each entity type is given as follows:

| Sl No. | Extract Name | Description |
|--------|----------------------|-------------------------------------|
| 1 | Legal Entity – Solo | Provides Data for following reports |
| | | 1. BS-C1 |
| | | 2. BS-C1D |
| | | 3. Cover-A1A |
| | | 4. Group-G01 |
| | | 5. MCR-B4 |
| | | 6. OF (Annual) |
| | | 7. Re-J1-Non Life |
| | | 8. Re-J1-Life |
| | | 9. Re-J2 |
| | | 10. Re-J3 |
| | | 11. Re-SPV |
| | | 12. SCR-B2A |
| | | 13. SCR-B2B |
| | | 14. SCR-B2C |
| | | 15. SCR-B3A |
| | | 16. SCR-B3B |
| | | 17. SCR-B3C |
| | | 18. SCR-B3D |
| | | 19. SCRB-3E |
| | | 20. SCRB-3F |
| | | 21. SCR-B3G |
| | | 22. TP-E1 |
| | | 23. TP-E2 |
| | | 24. TP-E3 |
| | | 25. TP-E4 |
| | | 26. TP-E6 |
| | | 27. TP-E7A |
| | | 28. TP-E7B |
| | | 29. TP-F1 |
| | | 30. TP-F2 |
| | | 31. TP-F4 |
| 2 | Legal Entity – Group | 1. P-Own |
| | | 2. P-Con |
| | | 3. OF Group |
| | | 4. SCR-B2A |

| Sl No. | Extract Name | Description |
|--------|-------------------------------------|---------------------|
| 3 | Legal Entity-RFR (Ring Fenced Fund) | 1. BS-C1 |
| | | 2. OF (Annual) |
| | | 3. SCR-B2A |
| | | 4. SCR-B2B |
| | | 5. SCR-B2C |
| | | 6. SCR-B3A |
| | | 7. SCR-B3B |
| | | 8. SCR-B3C |
| | | 9. SCR-B3D |
| | | 10. SCRB-3E |
| 4 | Legal Entity – Non Insurance Entity | 1. Group-G04 |
| 5 | Legal Entity – Non EEA Entity | 1. Group-G03 |
| 6 | Global Data | 1. Exchange Rates |
| | | 2. Inflation Rates |
| | | 3. Discount Rates |
| | | 4. Correlation Data |
| 7 | Other Individual Files | 1. IGT1 |
| | | 2. IGT2 |
| | | 3. IGT3 |
| | | 4. IGT4 |
| | | 5. ASSETS-D1 |
| | | 6. ASSETS-D1S |
| | | 7. ASSETS-D20 |
| | | 8. ASSETS-D2T |
| | | 9. ASSETS-D3 |
| | | 10. ASSETS-D4 |
| | | 11. ASSETS-D5 |
| | | 12. ASSETS-D6 |

Procedure to Generate Flat Data Files from OIDF

The following steps enlist the process to generate the flat data files from OIDF, for QMR – HFM and Financial Data Quality Management (FDM) Applications:

- 1. Login to the OFSAAI Home page.
- 2. Select the appropriate infodom.
- 3. Navigate to Batch Maintenance in the Operations Menu in the left hand side panel.
- 4. The tasks for OIDF to QMR App Data Extract are bundled under the batch [Infodom_Name]_OIDF_QMR_Data_Extract.
- 5. Select the batch checkbox and its corresponding tasks checkbox to edit the parameters of the task.

6. Select the batch checkbox and its corresponding tasks checkbox to edit the parameters of the task.

Figure 8. Batch Maintenance

| Connected to: OUPGNF0 😽 | | | | | | | | 9 | | |
|---------------------------------------|---------------------------------------------------------------|--------------------------|------------------------------------------|----------------------------|------------|-----------------|------------|-------------------|--|--|
| Connected av. Cothonico | Batch Maintenance | | | | | | | | | |
| h Home | Batch Maintenance | | | | | | | | | |
| 🗄 😳 Unified Metadata Manager | A Search | | | | | | | | | |
| Car Rules Framework | Batch ID Like | ONPONED_ | | Batch Descript | ion Like | 1 | | | | |
| 8 🏫 Forms Framework | Nodule | | ~ | Last Modificati | na Data | Between | And | | | |
| B 🍤 Operations | woose | L | | Last modification | on Date | Detween | - ADS | | | |
| Batch Maintenance | # Batch Name | | | | | 0 | | 1-1/1 (3 (3 (3 (3 | | |
| - Batch Execution | Batch D A | | | ch Edithion Edit | | | | | | |
| Batch Scheduler Batch Monitor | | | Creates flat file ext QVR application | racts of OIDF data | for upload | sing into the E | | | | |
| - Batch Processing Report | * Task Details | | | | | | | 1-2/2 0 0 0 | | |
| - Batch Cancellation | Task D 🛦 | Task Description | Metadata Valu | e | Compon | O the | Precedence | | | |
| - View Log | Taskt | ODW_HFV_Data_Extract TRA | | | FORM DATA | | | | | |
| Batch Group System Configuration | Task2 This task is used to create data for the FDM extract | | ODW_FDW_D | ODW_FDM_Data_Extract TRANS | | | Task1 | | | |
| 🖶 🔒 Administration | | | | | | | | | | |
| - Advanced Analytics Infrastructure | | | | | | | | | | |
| AMHIM UMM Offline Population | | | | | | | | | | |
| Financial Services Applications | | | | | | | | | | |

7. Click the Edit button for Task 1 (HFM Extract Task) and edit its parameter list.

Leaving the primary parameters (\$RUNID, \$PHID, \$EXEID, \$RUNSK) unchanged, set values for the following parameters.

| \$QMRRUNSK=1 | Set Run SKey for which the QMR data needs to be extracted. |
|------------------------|-----------------------------------------------------------------------------|
| \$RPSTARTDATE=20120101 | Set the Reporting Period Start Date in YYYYMMDD Format. |
| \$FINANCIAL_PRD=QA | Set the Financial Period for the required Data Extract (Q1/Q2/Q3/Q4/QA). |

- 8. Replace the parameter list (preceded with the parameter names) in Task Definition and re-save the task.
- 9. Click edit for Task 2 (FDM Extract Task) and edit its parameter list, similar to Task 1. Leaving the primary parameters (\$RUNID, \$PHID, \$EXEID, \$RUNSK) unchanged, set values for the following parameters.

| \$QMRRUNSK=1 | Set Run SKey for which the QMR data needs to be extracted. |
|------------------------|-----------------------------------------------------------------------------|
| \$RPSTARTDATE=20120101 | Set the Reporting Period Start Date in YYYYMMDD Format. |
| \$FINANCIAL_PRD=QA | Set the Financial Period for the required Data Extract (Q1/Q2/Q3/Q4/QA). |

Figure 9. Task Definition

| Task Definition | | | | | | | | | | |
|------------------------------------|----------------------|--|--------------------|------------------------|-----------------------------------|--|--|--|--|--|
| Batch Maintenance > Ta | sk Definition (Edit) | | | | | | | | | |
| * Task Definition | | | | | | | | | | |
| fask ID | Task1 | | Description | This task i extract | s used to create data for the HFM | | | | | |
| Components TRANSFORM DATA | | | | | | | | | | |
| Dynamic Parame | ators List | | | | | | | | | |
| roperty | | | Value | | | | | | | |
| latastore Type | | | EDW | | ~ | | | | | |
| latastore Name | | | OUPGNFO | | ~ | | | | | |
| Address | | | 10.184.133.91 | ~ | | | | | | |
| lule Name | | | ODW_HFM_Data_Extra | ct | ~ | | | | | |
| arameter List | | | SRUND=128526800763 | 9', SPHID+1157361214 | | | | | | |
| erendet sidt | | | 194040-15055000103 | ar ar nove 10/2012 14 | | | | | | |
| | | | | | | | | | | |

- 10. Replace the parameter list (preceded with the parameter names) in **Task Definition** and re-save the task.
- 11. Map the batch or batches to be executed to the user group in the **UserGroup-Batch Execution Map** screen in the Administration menu.

| Home | | | oseroroup - c | Batch Execution Map | | | | | | | |
|----------------------------------------|----------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|-------|--|--|--|--|--|
| | UserGroup - Batch Execution | Мар | | | | | | | | | |
| Unified Netadata Manager | R - UserGroup - Batch Ex | ecution Map | | | | | | | | | |
| Rules Framework | Information Domain | OUPGNFO V | | User Groups | UGHMADIMN 👻 | | | | | | |
| Forms Framework | | | | 0.00 | 1000 | | | | | | |
| Operations | Batch Wantenance | Advanced Analytics Infrast | ructure O Run Rules Framework | O ALL | | | | | | | |
| System Configuration | . UserGroup - Batch E | section Rep. | | | | | | | | | |
| Administration | | xecution map | Batch Description | | | 1.0.0 | | | | | |
| Security Management | Batch Name | | | | | Batc | | | | | |
| Metadata Authorization | OUPGINFO_ALM | | Data Quality batch for AU | | | | | | | | |
| Save Metadata | OUPGINED_CAMPAIGN | | Data Quality batch for CA | | | | | | | | |
| | OUPGINFO_COLLATERAL | | Data Quality batch for Col | | | | | | | | |
| Ubites | OUPGINFO_COLLECTION AND | RECOVERY | Data Quality batch for CRI Data Quality batch for CRI | ection and Recovery tables | | | | | | | |
| - Enable User | OUPGINFO_CRM | | Data Quality batch for Cut | | | | | | | | |
| - Write-Protected Batch | OUPGNF0_CUSTOMER OUPGNF0_EXPOSURE | | Data Quality batch for EX | | | | | | | | |
| - UserGroup-Batch Execution Map | OUPGRF0_EXPOSORE | Thuộ | Data Quality batch for GL | | | | | | | | |
| - User Attribute Upload | OUPGNFO LRM | 1982 | Data Quality batch for LRI | | | | | | | | |
| - Locale Desc Upload | OUPONFO_MARKET RISK | | | Data Quality batch for MARKET RISK tables | | | | | | | |
| - Uetadata Difference | OUPGINFO_WASTER | | | Data Quality batch for master tables | | | | | | | |
| | OUPGNF0_MASTER OUPGNF0_MSCELLANEOUS | | Data Quality batch for Miscellaneous tables | | | | | | | | |
| Object Illigration | OUPGINFO_OEF_QHR_Data | | Creates fait file extracts of ODF data for upitading into the GMR application. Data Duality batch for OP RSK tables | | | | | | | | |
| Patch Information | OUPGNFD_OPRISK | A | | | | | | | | | |
| Advanced Analytics Infrastructure | OUPGINFO_ORIGINATION | | Data Quality batch for Original | | | | | | | | |
| AMHM UMM Offline Population | OUPGNFO_POP_ACCOUNT_D | 1M | Populate DIM_ACCOUNT | | | | | | | | |
| nancial Services Applications | OUPGINFO_PRODUCT PROCE | | Data Quality batch for Product Processors group | | | | | | | | |
| | OUPGNED ONE ODE SCR | | Uploads SCR data from QMR external files to respective tables in ODF. | | | | | | | | |
| | OUPGINFO RATES | | Data Quality batch for Rates tables | | | | | | | | |
| | OUPGNFO RATING | | Data Quality batch for RATING tables | | | | | | | | |
| | OUPGNF0_SCD | | SCD for dimension tables master staging tables as source | | | | | | | | |
| | OUPGINED SECURITIZATION | | Data Quality batch for Securitization tables | | | | | | | | |
| | OUPGINED STG TO FCAS | | Product Process to Fact C | Product Process to Fact Common Account Summary | | | | | | | |
| | OUPONFO_STG_TO_FCCS | | Stage Customer to Fact Common Customer Summary | | | | | | | | |
| | OUPGINFO_TRANSACTION SI | UNIVARY | Data Quality batch for Transaction Summary tables | | | | | | | | |
| | OUPGINFO_TRANSACTIONS | | Data Quality batch for Transactions tables | | | | | | | | |
| | OUPGNFO sod28 | | scó | | | | | | | | |

Figure 10. UserGroup Batch

12. Navigate to **Batch Execution** in the **Operations** menu in the left hand side panel and select the batch [Infodom_Name]_OIDF_QMR_Data_Extract for execution and provide the Information Date from the Calendar dialog box.

| Figure | 11. | Batch | Executio | n |
|--------|-----|-------|----------|---|
|--------|-----|-------|----------|---|

| Financial | Services Analyti | cal Applications | Infrastructure | | | | | User: ep | | |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|------------------------------------|------------------------|------------|-------------|--------------------------|--|--|
| | Change Password Ab | o.t | Last Login Ourc 85/25/2 Last Failed Login Date 85/25/2 | 013 00:02:08 PM 013 19:31 46:PM | | | Connected t | e: OIUPGINFO In Setup: 7 | | |
| Connected to: OUPGNF0 | | | | Ba | tch Execution | | | 9 | | |
| Home | Batch Execution | | | | | | | | | |
| 问 Unified Metadata Manager | *. Batch Mode | | | | | | | | | |
| Rules Framework | Mode Run () Restart () Renun | | | | | | | | | |
| Forms Framework | - | | | | | | | | | |
| Operations | * Search | | | | | | | B D | | |
| - Batch Maintenance | Batch ID Like | OUPG | NFO_ODF | | Batch Description Like | | | | | |
| - Batch Execution | llodule | | | Last Modification Date | Between | π | And | | | |
| Batch Scheduler | 0 | | | | | | | | | |
| - Batch Monitor | A Batch Details | | | | | | | 1-1/1000 | | |
| Batch Processing Report | Batch D 🛦 | | Batch Description | | | | | | | |
| Batch Cancellation | OUPGINF0_DDF_OWR_Data_Extract Creates flat file extracts of ODF data for uploading into the QWR applicat | | | | | | | | | |
| - View Log | a Task Detai | Is | | | | | ð) Ø) 🙂 | 1-2/2 2 2 2 2 | | |
| E 🚦 Batch Group | Task D 🛦 | Task Description | Metadata Value | | Component D | Precedence | | Task Status | | |
| System Configuration | Task1 | This task is used to create data for the HFM extract | ODW_HFM_Data_Extract | | TRANSFORM DATA | | | N | | |
| & Advanced Analytics Infrastructure A AMHM UMM Offline Population Financial Services Applications | Task2 | This task is used to | ODW_FDM_Data_Extract | | TRANSFORM DATA | Task1 | | N | | |
| | R. Information | Date | | | | | | | | |
| | Date | | 0 | | | | | | | |
| | | | | | Execute Batch | | | | | |

13. Execute the Batch.

14. To check the status of the batch click **Batch Monitor** in the **Operations** menu.

| | al Services Analyt | ical Application | is Infrastructure | | | | | | | | | | | Use | |
|----------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|----------------------------------|----------|--------|-----|-----|--------|-------|-------------------|----------------|------------|--|
| | Change Parsword A | Lasi Lago Dele Bistesteris Benzis Pai Diarge Pacoword About Lasi Failed Lago Dele Bistesteris Bistesteris Lasi Failed Lago Dele Bistesteris Statulitation | | | | | | | | | | ed No: Oli | JPGINFO In Set | | |
| Connected to: OUPGNF0 | | | | Batch Execution | | | | | | | | | | | |
| 🛃 Home | Batch Execution | | | | _ | | | | | _ | _ | | | | |
| 🖲 🌐 Unified Metadata Manager | R. Batch Mode | | | | C http://10.184.133.91:467 📰 🗖 🔀 | | | | | | | | | | |
| Carles Framework | Node | | Run () Restart () Rerun | | | 21 | | | | 2013 | × • | | | | |
| Comp Framework | - | | | | | Mon | - | Wed | The | Fri | Sat | | | | |
| 🖹 🦘 Operations | R Search | | | | Sun | Pica I | THE | 1 | 2 | 3 | 4 | - | | B | |
| - Batch Maintenance | Satch D Like | OUR | GNF0_00F | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | _ | | |
| - Batch Execution | | | | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | - | | | |
| - Batch Scheduler | Module | | | <u>×</u> | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | Ané | | |
| - Batch Monitor | t Batch Det | | | | | | 28 | 29 | 30 | 31 | - | 1 (2) + | | 1-1/100 | |
| - Batch Processing Report | Batch D A | 0.00 | | _ | _ | _ | _ | | | - | Cose | (G) Y | | 14111 | |
| - Batch Cancellation | | ODF_QVR_Data_Ex | rad | _ | | | | | | | | ploading into the | OVR and | ication | |
| - ViewLog | | Ten Ten Constru | | | | | | | | | | barred rates | a ayy | | |
| E E Batch Group | R Task Deta | ils | | | | | | | | | 1 | 0101 ÷ | | 1-2/2 | |
| System Configuration | Task D 🔺 | | Metadata Value | | C | ompone | ont ID | | | Preces | ience | | | Task Statu | |
| 🖲 🔒 Administration | Task1 | This fask is used to Task1 create data for the OD/N_HFM_Data_Extract TRANSFORM DATA HFM extract | | | | | | Ν | | | | | | | |
| & Advanced Analytics Infrastructure AMHII UMM Offline Population Financial Services Applications | Tesk2 | This task is used to Task2 create data for the ODW_FDM_Data_Extract FDM extract | | | TRANSFORM DATA Taski | | | | | | | в | | | |
| Prinder under offenstels Approvations | * Information | Date | | | | | | | | | | | | | |
| | Date | | | | | | | | | | | | | | |
| | | | | | Exe | tute Bat | ch . | | | | | | | | |

- 15. Verify whether the batch is executed successfully, by confirming presence of all expected data file extracts under the defined Oracle Directory path for QMR_EXTRACTS (refer Oracle Directory Script Creation). Data extract files generated would be in the QMR_Extract Directory as:
 - HFM Global Data Files will be named as:

HFM_Global_<<MIS Date>>_<<Run Skey>>.dat

HFM Group Data Files will be named as:

HFM_Group_<<MIS Date>>_<<Run Skey>>.dat

■ HFM Insurance Non EEA Data Files will be named as:

HFM_InsuranceNonEEA_<<Entity Code>><<MIS Date>>_<<Run_Skey>>.dat

■ HFM Ring Fenced Fund Data Files will be named as:

HFM_RFF_<<EntityCode>><<MIS Date>>_<<Run_Skey>>.dat

- HFM Insurance Data Files will be named as: HFM_InsuranceSolo_<<Entity Code>><<MIS Date>>_<<Run_Skey>>.dat
- HFM Non Insurance Data Files will be named as:

HFM_NonInsurance_<<Entity Code>><<MIS Date>>_<<Run_Skey>>.dat

- FDM Group Data Files will be named as:
 FDM_Group_<<ReportName>>_<<Entity Code>><<MIS Date>>_<<Run_Skey>>.dat
- EEA data Data Files will be named as: FDM_EEA_<<ReportName>>_<<Entity Code>><<MIS Date>>_<<Run_Skey>>.dat
- Ring Fenced Fund Data Files will be named as:

```
FDM_Insurance_<<ReportName>>_<<Entity Code>><<MIS Date>>_<<Run_Skey>>.dat
```

Procedure to Upload SCR Data

The following steps enlist the process to upload Solvency Capital Requirements (SCR) data from QMR external flat (HFM Extracted File with calculated SCR and Minimum Capital Requirements (MCR) values) files to respective OIDF tables:

Note: The data extracted from HFM must include calculated data.

- 1. Verify the SCR (calculated values) Extract Data File from HFM under the defined Oracle Directory DIR_QMR_UPLOAD_FILES
- 2. Login to the OFSAAI Home page.
- 3. Select the appropriate Infodom.
- 4. Navigate to Batch Maintenance in the Operations menu in the left hand side panel.
- 5. The tasks for OIDF to QMR App Data Extract are bundled under the batch [Infodom_Name]_QMR_OIDF_SCR_Upload.
- 6. Select the batch checkbox and its corresponding tasks checkbox to edit the parameters for the task.

Figure 13. Batch Monitor

| | | I Applications Infrastructure | | | | Ure | | | |
|---------------------------------------|----------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|-----------------------|--|--|--|
| Lopout | Charge Password Abou | Last Lagh Date o Last Falled Login Calls & | 2797月15日中227月1日 2797月15日中2月1日 2797月15日中2月1日 | | Connected | to: OIUPGINFO In Selu | | | |
| Connected to: OUPGNF0 😸 | | | Batch Monitor | | | | | | |
| A Home | Batch Wontor | | | | | | | | |
| 🖲 😡 Unified Netadata Manager | * Search | | | | | | | | |
| 8 🛃 Rules Framework | Batch ID Like | OUPGINEO_ODF | Batch Descri | ntina I ike | | | | | |
| 🗄 🏫 Forms Framework | | | | | | | | | |
| 🗄 🖘 Operations | Wodule | | Status Status | | | × | | | |
| - Batch Maintenance | Start Date | (X) | End Date | | - | | | | |
| - Batch Execution | | | | | | | | | |
| - Batch Scheduler | * Batch Details | | | | ÷ | 1-1/1 | | | |
| Batch Monitor | Batch 10 🛓 | 9 _ QVR_Data_Extract | Batch Description Creates flat file extracts of OIDF data for uploading into the OIIR application. | | | | | | |
| - Batch Processing Report | | //_UVIK_UVITA_EXTRC | Creates has | the extracts of UIDP data to | or upleasing into the Us | H appication. | | | |
| - Batch Cancellation | * Batch Run Details | | | | | | | | |
| - View Log | Information Date | | Monitor Refre | esh Rate (seconds) | 5 | | | | |
| 🖲 🕎 Batch Group | Batch Run Ø | OUPONED ODE ONE Data E | stant 201 4 | | | | | | |
| 8 🛐 System Configuration | | | | | | | | | |
| E 🖶 Administration | * Batch Status | | | | | | | | |
| 🗄 🦧 Advanced Analytics Infrastructure | Batch Run ID | | Batch Statu | 4 | | | | | |
| AMHII UMII Offline Population | 0UPGNF0_00F_0HF_0Haa_Extract_20120215_3 Successful | | | | | | | | |
| Financial Services Applications | | | | | | | | | |
| | A Task Details | | | | | 1-2/2 [] [] | | | |
| | Task D 🛦 | Task Description | Netadata Value | Component @ | Ta | sk Status | | | |
| | Task1 | This task is used to create o HFM extract | ata for the ODW_HFM_Data_Extract | TRANSFORM DATA | - D | 314] Successful | | | |
| | T10K2 | This task is used to create o FDM extract | ata for the ODW_FDM_Data_Extract | TRANSFORM DATA | 4 (D | (314) Successful | | | |
| | · Event Log | | | | | 1-2/2 🖬 🖬 | | | |
| | Message D 🛦 | Description | | | Seventy | Time | | | |
| | 6991 | [1707] Batch started by EPM61USER | | | NFORM | 2013-05-21 11 55 4 | | | |
| | 8997 | [1706] Batch Complete | | | NFORM | 2013-05-21 11:56:0 | | | |

7. Click the **Edit** button for Task 1 (QMR_OIDW_ExtFile_Details) and edit its parameter list. Leaving the primary parameters (\$RUNID, \$PHID, \$EXEID, \$RUNSK) unchanged, set values for the following parameters.

| \$EXT_DIR_NAME=DIR_QMR_UPLOAD_FILES | Set Oracle Directory where the HFM SCR Extract Data is placed. |
|-----------------------------------------|----------------------------------------------------------------|
| \$EXT_FILE_NAME=QMR_SCR_Data_2011-QA_LE | Set the 'HFM SCR Extract Filename' to be processed present |
| 01_Extract.dat | under the Oracle Directory. |

Figure 14. Task Definition

| | | Task D | efinition | | |
|------------------------|----------------------|--------|----------------------|--------------------------------------------|------------------|
| Batch Maintenance > Ta | sk Definition (Edit) | | | | |
| * Task Definition | | | | | |
| Task D | Task1 | | Description | This task will map name pa the ext file | th and format of |
| Components | TRANSFORM DATA | 2 | | | |
| * Dynamic Parame | eters List | | | | |
| Property | | | Value | | |
| Datastore Type | | | EDW | * | |
| Datastore Name | | | OUPGINFO | * | |
| P Address | | | 10.184.133.91 | * | |
| Rule Name | | | QMR_OIDW_ExtFile_Det | als 💌 | |
| Parameter List | | | '\$RUND+128526800763 | 9', SPHID=1157361214 | |
| | | | | | |

- 8. Replace the parameter list (preceded with the parameter names) in the Task Definition and re-save the Task.
- 9. Click Edit for Task 2 (QMR_OIDW_SCR_Update) and edit its parameter list.

Leaving the primary parameters (\$RUNID, \$PHID, \$EXEID, \$RUNSK) unchanged, set values for the following parameters.

| \$QMRDATE=20120101 | Set the MIS Date for which the QMR data needs to be updated in OIDF in YYYYMMDD Format. |
|--------------------|-----------------------------------------------------------------------------------------|
| \$QMRRUNSK=1 | Set Run SKey for which the QMR data needs to be updated in OIDF. |
| \$QMRGAAP=IFRS | Set the GAAP ID for which the QMR data needs to be updated in OIDF. |

- 10. Replace the parameter list (preceded with the parameter names) in **Task Definition** and re-save the task.
- 11. Map the batch or batches to be executed to the user group in **UserGroup-Batch Execution Map** screen in the **Administration** menu.
- 12. Navigate to **Batch Execution** in the **Operations** menu in the left hand side panel and select the batch ([Infodom_name]_QMR_OIDF_SCR_Upload) for execution and provide the **Information Date** from the **Calendar** dialog box.

Figure 15. Batch Execution

| Connected to: OUPGNF0 M | | | | B | atch Execution | | | |
|-----------------------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|----------|
| eme | Batch Execution | | | | | | | |
| Unified Netadata Manager | | | | | | | | |
| Rules Framework | Mode | | Run O Restart O Rerun | | | | | |
| Forms Framework | ł | | | | | | | |
| Operations | # Search | | | | | | | 12 |
| Batch Maintenance | Batch ID Like | OUP | GNFO_GMR | | Batch Description Like | | | |
| Batch Execution | Module | | | × | Last Modification Date | Between | I And | |
| Batch Scheduler | - | | | | | | | |
| Batch Monitor | * Batch Detail | ls . | | | | | 31 . ¥ | 10001 |
| latch Processing Report latch Cancellation | Batch D A | | | | Batch Descript | | | |
| | OUPGNED_C | WR_ODF_SCR_UM | oad | | Uploads SCR dat | a from QUR external files to r | respective tables in OID | £. |
| Batch Group | + Task Detail | | | | | 0 | • | 1-2-2 [] |
| System Configuration | Task D 🔺 | Task Description | Metadata Value | | Component ID | Precedence | | Task Sta |
| Idministration | Taskt | This task will may name path and | QVR_ODW_ExtFile_Deta | 14 | TRANSFORM DATA | | | |
| dvanced Analytics Infrastructure | | format of the ext | | | interaction and a second | | | |
| MHU UNII Offine Population | | This task calls functions to upda | | | | 12.007 | | |
| icial Services Applications | Task2 | SCR data into OE table | | | TRANSFORM DATA | Taski | | N |
| | | | | | | | | |
| 1 | A Information | Date | | | | | | |
| | Cate | | | | | | | |
| | Cafe | | | | Execute Batch | | | |
| | | | | C http://10.10 | 4.133.91:467 | | | |
| | | | | Hay | M D 1 2013 M | | | |
| | | | | Sun Mon 1 | lue Wed Thu Fri S | | | |
| | | | | | | 4 | | |
| | | | | 5 0 12 13 | status and sta | 18 | | |
| | | | | | | 15 | | |
| | | | | 26 27 | 28 29 30 31 | | | |
| | | | | | | 0.84 | | |
| | | | | | | | | |

- 13. Execute the Batch.
- 14. Verify whether the batch is executed successfully by confirming presence of calculated SCR and MCR data in all the relevant tables in OIDF.

Figure 16. Batch Monitor

| Connected to: OUPGNF0 | | | Batch | Monitor | | | | |
|----------------------------------------|------------------|-----------------------------------------------------------------|--------------|-----------------|---------------------|----------------------|----------------|---------------------|
| h Home | Batch Monitor | | | | | | | |
| 🖯 🕕 Unified Metadata Manager | A Search | | | | | | | |
| 🗄 🛃 Rules Framework | Batch ID Like | OUPGNFO_QMR | | Batch Descrip | ton Like | 10 | | |
| es Forms Framework | Module | | ~ | Status | | | | * |
| n Operations | | L | | | | | | |
| - Batch Maintenance | Start Date | E C | | End Date | | | | |
| - Batch Execution | A Batch Details | | | | | | | 1-1/1/23 (2) |
| - Batch Scheduler | Batch D 4 | | | Balch Descri | | | Ψ | 10116303 |
| Batch Monitor | OUPONFO QUR | ODE SCR Linked | | | data from QVR exten | al files to research | ue tables in i | 10F |
| - Batch Processing Report | | | | 1910000 001 | ade con and prot | an mean in reason | 10.00000.000 | |
| Batch Cancellation | * Batch Run Det | ails | | | | | | 1 🖉 🔕 E |
| - View Log | Information Date | 20120215 | 4 | Monitor Refres | ih Rate (seconds) | 5 | | |
| 🖲 🕎 Batch Group | Batch Run ID | OUPGNF0_OVP_ODF_SCR_Upent_2 | 01.14 | | | | | |
| System Configuration | | | | | | | | |
| Administration | a Batch Status | | | | | | | |
| & Advanced Analytics Infrastructure | Batch Run D | | | Batch Status | r. | | | |
| AMHM UMM Offine Population | OLIPGNED OW | R_ODF_SCR_Uplead_20120215_1 | | Success*U | | | | |
| Financial Services Applications | - | | | | | | | |
| | n Task Details | | | | | | | 1-2/2 0 0 |
| | Task D 🛦 | Task Description | Metadata Val | ue : | Component D | | Task S | tatus |
| | Task1 | This task will map name path and format of the ext file | QNR_ODWJ | ExtFile_Details | TRANSFORM D | ATA | [13314 | () Successful |
| | Task2 | This task calls functions to update SCR cata into OIDF table | GWR_ODW_S | SCR_Update | TRANSFORM D | ATA | E13314 | () Successful |
| | * Event Log | | | | | | | 1-2/2 (3) (3) |
| | Message D 🔺 | Description | | | | Severity | | Time |
| | 6998 | [1707] Batch started by EPM61USER | | | | INFORM | | 2013-05-21 11 56 55 |
| | 7005 | [1708] Batch Complete | | | | MFORM | | 2013-05-21 11:57 16 |

Data Mapping

All reporting is based on standard codes, which are often used as codes and filters. For more information on the relevant scripts to be executed for the seeded data and download data tables, refer to Oracle Insurance Solvency II QMR Interface Download Specifications .

The following seeded data are to be populated in the Dimension/Setup Tables:

| Entity Name | Table Name |
|----------------------------------------------------|--------------------------------|
| Business Class Dimension | Dim_Business_Class |
| Business Segment Dimension | Dim_Business_Segment |
| Capital Computation Group Dimension | Dim_Capital_Comp_Group |
| Capital Computation Method Dimension | Dim_Capital_Computation_Method |
| Dimention Cash Flow Type | Dim_Cash_Flow_Type |
| Dimension Claim Status | Dim_Claim_Status |
| Country Dimension | Dim_Country |
| Coverage Type Dimension | Dim_Coverage_Type |
| Currency Dimension | Dim_Currency |
| Economic Zone Dimension | Dim_Economic_Zone |
| Dimension Entity Type | Dim_Entity_Type |
| Fund Type Dimension | Dim_Fund_Type |
| Insurance Risk Measures Dimension | Dim_Insurance_Risk_Measure |
| Insurance Risk Type Dimension | Dim_Insurance_Risk_Type |
| Dimension Intra Group Transaction Type | Dim_Intra_Group_Txn_Type |
| Dimension Market Risk Position | Dim_Market_Risk_Position |
| Product Benefits Type Dimension | Dim_Product_Rider_Type |
| Region Dimension | Dim_Region |
| Reporting Line Dimension | Dim_Rep_Line |
| Run-Off Measure Dimension | Dim_Run_Off_Measures |
| Run Types | Dim_Run_Type |
| Scenario Dimension | Dim_Scenario |
| Standard Lob Dimension | Dim_Standard_Lob |
| Standard Major Lob Dimension | Dim_Standard_Major_Lob |
| Standard Product Type Dimension | Dim_Standard_Product_Type |
| Standard Mitigant Type Dimension | Dim_Std_Mitigant_Type |
| Generally Accepted Accounting Principles Dimension | Dim_Gaap |

Data Population

DIM Table Population

The sequence of Data Population for Dimension tables is a follows:

| Entity Name | Table Name |
|---------------------------------------------|--------------------------------|
| Account Dimension | Dim_Account |
| Account Identifier Type Dimension | Dim_Account_Identifier_Type |
| Bands Dimension | Dim_Bands |
| Cedent Asset Classification Dimension | Dim_Cedent_Asst_Classification |
| Claim Dimension | Dim_Claim |
| Collateral Purpose Dimension | Dim_Collateral_Purpose |
| Dimension Consolidation Approach | Dim_Consolidation_Approach |
| Dimension Legal Nature Of Company | Dim_Constituted_Form |
| Contract Unwind Trigger Dimension | Dim_Contract_Unwind_Trigger |
| Credit Rating Dimension | Dim_Credit_Rating |
| Date Dimension | Dim_Dates |
| Account Dimension | Dim_Exposure |
| Exposure Type Dimension | Dim_Exposure_Type |
| Financial Year Dimension | Dim_Financial_Year |
| Fund Dimension | Dim_Fund |
| Hedge Status Dimension | Dim_Hedge_Status |
| Hedge Type Dimension | Dim_Hedge_Type |
| Hedging Strategy Dimension | Dim_Hedging_Strategy |
| Homogenous Risk Group Dimension | Dim_Homogenous_Risk_Group |
| Insurance Loss Modeling Component Dimension | Dim_Ins_Loss_Modeling_Comp |
| Instruments Contracts Dimension | Dim_Instrument_Contract |
| Insurance Broker Role Dimension | Dim_Insurance_Broker_Role |
| Insurance Scalar Factor Dimension | Dim_Insurance_Scalar_Factor |
| Dimension Legal Entity Group | Dim_Legal_Entity_Group |
| Line Of Business Dimension | Dim_Lob |
| Methodologies Master | Dim_Methodologies |
| Mitigant Dimension | Dim_Mitigant |
| Organization Structure Dimension | Dim_Org_Structure |
| Participation Type Dimension | Dim_Participation_Type |
| Party Dimension | Dim_Party |
| Dimension Policy | Dim_Policy |
| Dimension Policy Party | Dim_Policy_Party |
| Portfolio Type Dimension | Dim_Portfolio_Type |
| Dimension Premium Payment Type | Dim_Premium_Payment_Type |

| Entity Name | Table Name |
|------------------------------------------|-------------------------------|
| Product Dimension | Dim_Product |
| Product Type Dimension | Dim_Product_Type |
| Reinsurance Progessive Layer Dimension | Dim_Reins_Progressive_Layer |
| Reinsurance Progessive Section Dimension | Dim_Reins_Progressive_Section |
| Reinsurance Contract Dimension | Dim_Reinsurance_Contract |
| Reinsurance Program Dimension | Dim_Reinsurance_Program |
| Dimension Reinsurance Risk Type | Dim_Reinsurance_Risk_Type |
| Reinsurance Treaty Type Dimension | Dim_Reinsurance_Treaty_Type |
| Dimension Reinsurer Type | Dim_Reinsurer_Type |
| Run Dimension | Dim_Run |
| Spv Authorization Options Dimension | Dim_Spv_Authorization_Options |
| Dimension Spv Trigger Type | Dim_Spv_Trigger_Type |
| Sub Account Dimension | Dim_Sub_Account |
| Dimension Underwriting Model Type | Dim_Underwriting_Model_Type |
| Valuation Method Dimension | Dim_Valuation_Method |

FCT Table Population

The sequence of data population for FCT tables is as follows

| Entity Name | Table Name |
|---------------------------------------------|--------------------------------|
| Fact Business Performance Details | Fct_Business_Performance_Detl |
| Fact Capital Addon | Fct_Capital_Addon |
| Fact Claim Details | Fct_Claim_Details |
| Fact Claims Inflation Rate | Fct_Claims_Inflation_Rate |
| Fact Counterparty Credit Risk Exposure | Fct_Counterparty_Cr_Exposure |
| Fact Entity Parent Information | Fct_Entity_Parent_Info |
| Fact Financial Elements | Fct_Financial_Element |
| Fact Fund Capital Details | Fct_Fund_Capital_Details |
| Fact Homogeneous Risk Group | Fct_Homogeneous_Rsk_Grp_Detail |
| Fact Homogeneous Risk Group Cash Flow | Fct_Hrg_Cashflow |
| Fact Insurance Internal Models Risk Details | Fct_Ins_Internal_Mdl_Risk_Dtls |
| Fact Insurance Scalar Factors | Fct_Ins_Risk_Scalar_Factors |
| Fact Insurance Risk Valuation Factors | Fct_Ins_Risk_Valuation_Factors |
| Fact Insurance Correlation Matrix | Fct_Insurance_Correlation_Mtrx |
| Fact Insurance Recoverables | Fct_Insurance_Recoverables |
| Fact Insurance Risk Details | Fct_Insurance_Risk_Details |
| Fact Insurance Risk Summary | Fct_Insurance_Risk_Summary |

| Entity Name | Table Name |
|-------------------------------------------|--------------------------------|
| Fact Intragroup Transaction Details | Fct_Intra_Group_Txn_Details |
| Fact Legal Entity Details | Fct_Legal_Entity_Details |
| Fact Legal Entity Group Details | Fct_Legal_Entity_Group_Details |
| Fact Mitigants | Fct_Mitigants |
| Fact Own Fund Balances | Fct_Own_Fund_Balances |
| Fact Own Fund Details | Fct_Own_Fund_Details |
| Fact Policy Details | Fct_Policy_Details |
| Fact Portfolio Asset Data | Fct_Portfolio_Asset_Data |
| Fact Product Riders | Fct_Product_Rider_Details |
| Fact Product Statistics | Fct_Product_Statistics |
| Fact Reinsurance Policy Details | Fct_Reinsurance_Policy_Details |
| Fact Reinsurance Spv Details | Fct_Reinsurance_Spv_Details |
| Fact Run-Off Detail | Fct_Run_Off |
| Fact Development Year-Wise Run-Off Detail | Fct_Run_Off_Development_Year |
| Fact Standard Insurance Lob | Fct_Std_Insurance_Lob |
| Fact Sub Account Details | Fct_Sub_Account_Details |
| Fact Sub Account Mitigant Mapping | Fct_Sub_Acct_Mitigant_Mapping |
| Exchange Rate History | Fsi_Exchange_Rate_Hist |
| Run Parameters | Run_Parameters |

Input Data Preparation

Assumptions regarding data input

- The currency conversion is expected to be handled by the ETL layer. The data, specifically for measure columns is assumed to be converted into local currency and then loaded in the system.
- User needs to make changes in case NCY / RCY columns are required.
- The post offset amount in FCT_MARKET_RISK_EXPOSURES has to be a download after taking into account any offsetting logic that might be applicable, or the number of underlying in the contract. This value should be obtained after position conversion (if applicable).
- Scope of data extracts excludes the consolidation process. If an execution is done for the group entity, the data (for example: capital, GL based reports for composites) for group entity should be uploaded separately. Data for group entity shall not be derived from solo entity's data.

General Data Preparation Guidelines

- Granular Risk numbers are primarily stored against HRG, Policy, Sub account, credit exposures and so on. Depending on the requirement, you need to provide data as a download.
- Intra group transaction types and respective tables The following Intra group transaction types are sourced from FCT INTRA GROUP TXN DETAILS:

- Bonds / Debt collateralized
- Bonds uncollateralized
- Equity type dividends
- Equity type shares / participations
- Equity type others
- Debt uncollateralized

However, internal reinsurance between (re)insurance undertakings of a group will be sourced from FCT REINSURANCE POLICY DETAILS.

- On role of entity in each data table, all the data elements (For example, table FCT_POLICY_DETAILS) are for an entity which has done the actual transaction (in this case sold policy) or to whom transaction belongs to and not the group entity. Hence if requirement is for group entity report, all the tables should be populated with Group Entity as respective entity and not the individual entity.
- Fct_Reinsurance_Policy_Details stores the data at insurance contract level. Progressive layer, progressive section number, standard line of business and reinsurer, apart from contract sequence number, identify the reinsurance contract. Few measure values like Sum Insured, Underwriting model amount will remain the same for above combination of parameters, whereas measures like reinsurance recoverable, premium provisions and claim provisions will differ as per requirement. For example, reinsurance recoverable would strongly depend on Line of Business and/or reinsurer.
- The user needs to specify the calendar in DIM FINANCIAL CALENDER. This will be used to calculate Year till date (YTD) numbers. Calendars are attached to entity. Calendar of Legal entity for which RUN is executed will be used for all the reports.
- In case of Fct_Business_Performance_Detl, though F_POLICY_FPS_IND, N_BUSINESS_CLASS_SKEY, N_ECONOMIC_ZONE_SKEY are part of primary key. Populate the skeys as -1 and f_policy_fps_ind as "N" in case of dashboard or wherever regulatory reporting is not required.
- In DIM_SUB_ACCOUNT, A more granular level than the account/instrument (asset) is arrived constituting Account Number or Instrument Code, Portfolio Type Code, Collateral Pledged Purpose Code. (v_account_number/v_instrument_code, v_portfolio_type_code, v_coll_pledge_purpose_code). A sub account code is assigned for the said combination. The details of this sub account have to be given in FCT SUB ACCOUNT DETAILS.

For example, in FACT INSURANCE RISK SUMMARY the dimension dim INSURANCE RISK TYPE contains risk types(mortality risk, lapse risk), DIM INSURANCE RISK MEASURE contains definition of the measure(Gross SCR,NET SCR,ASSETS) and DIM CAPITAL COMPUTATION METHOD contains method used for computing risk numbers, which defines the way business is carried out.

• In case of fct_insurance_risk_details, though n_std_major_lob_skey,n_region_skey,n_country_skey are part of primary keys, Populate the skeys as '-1' wherever regulatory reporting is not required.

For example in report SCRB3E, region and major lob are used for reporting geographical diversification, but country is not required. Hence this column should be populated as '-1'.

• Solvency utilizes few tables from OIDF (Oracle Insurance Data Foundation) which are common to many applications and hence their data storage is arrived according to the requirement of these applications. Hence all the columns of following table are not mandatory for Solvency II application. However, since these are functionally rich table structures, you can make use of these placeholders suitably if required. Also relevance of columns from Solvency II perspective should be referred in Download Specifications.

- Dim_Account
- Dim_Credit_Rating
- Dim_Exposure
- Dim_Instrument_Contract
- Dim_Party
- Dim_Product

Run Overview

RUN defines the purpose of data execution. Few examples are Solvency Run, Regulatory Reporting Run and so on.

In DIM RUN table, Run Surrogate Key (Run Skey) is the primary attribute in DIM RUN Table. This is to identify a particular set of data, which is defined by combination of RUN ID and Execution Date for every execution or RUN EXECUTION IDENTIFIER.

- In each of the FCT table, data is characterized by combination of RUN SKEY, Business Type, Legal Entity and scenario code as appropriate. Details of the same are given below.
 - Run Skey: is a Surrogate key for a particular processed data set. This is a numeric field and is referenced to the table DIM_RUN that contains the list of all such run surrogate keys. This table is required to be updated with the N_Run_Skey each time a report for any new instance is to be generated assuming other paramrters constant. Multiple executions on same FIC MIS DATE will have different run skey.
 - FIC_MIS_DATE/Extraction Date/Reporting Date: is a common date identifier for the records across all the tables for which you want to generate the report.
 - Business Type: can be Life, Non Life or Composite. This is not part of DIM RUN table, but all FCT tables have these as an important identifier.
 - Entity: is the list of legal entities for the institute is provided in the table DIM_ORG_STRUCTURE.
 - Scenario: the Various Scenarios used by entity for testing uncertain future developments. List of Scenarios needs to be stored in DIM SCENARIO table.
- In DIM RUN, F REPORTING FLAG should be marked 'Y' for all the run executions which will be used for reporting. If there are multiple executions for the same RUN ID and FIC MIS DATE, the reporting flag should be used to highlight one specific execution for reporting. It is assumed that single RUN will contain all the information required. Multiple scenarios and multiple FIC MIS DATE for a single RUN ID is assumed to provide the required flexibility.
- Scenario and Baseline data should be stored in the same run and are differentiated using scenario code in the fact table.
- For each Run execution, FCT_LEGAL_ENTITY_GROUP_DETAILS will have details of Legal Entity. If the run executed is SOLO execution then there will be one row entry in the stated table and lead entity and legal entity will have same entries. If the run executed is COMPOSITE execution then there will be 'n' rows entry in the stated table (where n = number of entities involved in the run), lead entity attribute will have entry of the Group entity and legal entity attribute will have entries of all the child entities to the group entity. Parent child relationship of the entities will be available in DIM_ORG_STRUCTURE.

• Executions can be done at two different levels, composite as well as for one businesssegment entity. For each type of the execution composite and single business segment data should be separately calculated, solo executions will not be consolidated for composite execution.

For the list of staging area tables and attributes that can be used for QMR, refer the Oracle_Insurance_Solvency_II_QMR_Interface_-_DL_Specs_4 spreadsheet.

CHAPTER 24 Data Quality Rules Execution

This chapter provides information about Data Quality Rules Execution in the Oracle Financial Services Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Data Quality Framework
- Data Quality Rules For Staging Tables
- Data Quality Groups for Staging Tables

Data Quality Framework

Data Quality Framework consists of a scalable rule-based engine which uses a single-pass integration process to standardize, match, and duplicate information across global data. Data Quality Framework within the Infrastructure system facilitates you to define rules and execute them to query, validate, and correct the transformed data existing in an Information Domain.

You can access Data Quality Framework by expanding the Data Integrator Framework within the Unified Metadata Manager section in tree structure of LHS menu.

Data Quality Framework consists of the following sections:

- Data Quality Summary
- Data Quality Group Summary

Data Quality Summary

Data Quality Summary within the Data Integrator framework of Infrastructure system facilitates you to create a DQ (Data Quality) definition and define nine specific validation checks based on Range, Data Length, Column Reference/Specific Value, List of Value/Code, Null Value, Blank Value, Referential Integrity, Duplicity, and Custom Check/Business. You can also correct data for range, column reference, list of values, null value, and blank value parameters.

The defined Data Quality Rule checks can be logically grouped and executed together. You (Business Analysts) need to have ETL Analyst function role mapped to access the Data Quality Summary framework within the Infrastructure system.

You can access Data Quality Summary by expanding the Data Quality framework within the Unified Metadata Manager section in tree structure of LHS menu.

| | | | Data Quality R | ule Summary | | | | 6 |
|-----------------------------------|-------------------|-------------|----------------|-------------|---------------|----------------|------------------------|-------------|
| 2 Search | | | | | | | | 5 |
| DQ Name | | | | Table Name | | | * | |
| Folder | ORRCR73 | * | | Check Type | | Specific Check | * | |
| * Data Quality Rules | | | | | | | ₹ 1 to 10 of 39 | |
| DQ Name 🛓 | Table Name | Access Type | Check Type | Folder | Creation Date | Created By | Last Modification Date | Status |
| DQ_CARDSNY1 | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/22/2011 | PQAUSER | 8/22/2011 | Saved |
| DQTEST#S#@##\$ | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/25/2011 | PQAUSER | 8/25/2011 | Saved |
| DOTEST | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/25/2011 | PQAUSER | 8/25/2011 | Saved |
| DQTEST4 | DIM_GENDER | Read/Write | Specific Check | ORRCR73 | 8/24/2011 | PQAUSER | 8/29/2011 | Approved (i |
| DQTEST3 | DIM_CUSTOMER | Read/Write | Specific Check | ORRCR73 | 8/23/2011 | PQAUSER | 8/23/2011 | Approved (i |
| DQCARDSWY3_Custom Check_Che | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/23/2011 | PQAUSER | 8/23/2011 | Saved |
| DBCARDSWY3_Duplicity Check_Che | FCT_CARDS_SUNMARY | Read | Specific Check | ORRCR73 | 8/23/2011 | POAUSER | 8/23/2011 | Approved (1 |
| DQ_CARDSMY | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/22/2011 | PQAUSER | 8/22/2011 | Saved |
| DQCARDSMY3 | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/22/2011 | PQAUSER | 8/30/2011 | Saved |
| DQCARDSMY3 | FCT_CARDS_SUMMARY | Read/Write | Specific Check | ORRCR73 | 8/23/2011 | PQAUSER | 8/23/2011 | Saved |

Figure 17. Data Quality Rule Summary

The **Data Quality Rule Summary** screen displays the list of pre-defined Data Quality Rules with the other details such as DQ Name, Table Name, Access Type, Check Type, Folder, Creation Date, Created By, Last Modification Date, and Status of the Rule. A defined rule is displayed in Saved status, until it is Approved/Rejected by the approver. An Approved rule can be grouped in order for execution and a Rejected rule is sent back to the user with the Approver comments.

You can add, view, modify, copy, approve/reject, or delete Data Quality Rules within the **Data Quality Rule Summary** screen. You can also make use of Search and Pagination options to search for a Data Quality Rule based on DQ Name, Table Name, Folder, or Check Type and view the existing Data Quality Rules within the system.

For more information, refer to Oracle Financial Services Analytical Applications Infrastructure User Manual.

Create Data Quality Rule

You can create a Data Quality Rule definition by specifying the DQ Definition details along with the type of validation check on the required table and defining the required validation conditions to query and correct the transformed data.

To create Data Quality Rule in the Data Quality Rule Summary screen:

1. Click **Add** button in the Data Quality Rules tool bar. Add button is disabled if you have selected any check box in the grid. The **Data Quality Definition** screen is displayed.

| Cigura | 10 | Data | | Definition |
|--------|-----|------|---------|------------|
| гицге | 10. | Dala | Quality | Deminion |
| | | | | |

| New - DQ Definition - Window | ws Internet Explorer | | | | |
|--------------------------------------|---------------------------------|----------------------|--------------------|---------------------------|-----|
| | | | | | ~ 1 |
| Data Quality Rules > Rule Definition | n (Rew mode) | Data (| Quality Definition | | 0 |
| | | | | | |
| DQ Definition | DQ_Rule_1 | | | | |
| Name * | | | | | |
| Description | Data Quiaity Rule Definition to | validate attrioutes. | | | |
| Folder | FUSamhm | ~ | Access Type | C Read Only () Read/Write | |
| A Check Type | | | | | |
| Check Type g | Specific Check | ~ | | | |
| * Select | | | | | |
| Table Name* | Dim Account | * | | | |
| Base Column Name * | Start Date | ~ | | | |
| Substring | | | Parameters | Position Length | |
| Filter | d_closed_date = SYSDATE(V | 0ID) | | | |
| * Range Check | | | | | |
| * Data Length Check | | | | | |
| Column Reference / Speci | fic Value Check | | | | |
| 8 List of Value/Code Check | | | | | |
| * Null Value Check | | | | | |
| 8 Blank value Check | | | | | |
| * Referential Integrity Check | k | | | | |
| ¥ Duplicity Check | | | | | |
| ¥ Custom Check/Business C | heck | | | | |
| | | | Generate Query | | |
| V Generated Query | | | | | |
| | | | | | |
| | | St | ve Cancel Reset | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

2. In the DQ definition section, perform the following:

- Enter the **Name** by which you can identify the DQ definition.
- Enter a description or related information about the definition.
- Select the Folder (available for selected Information Domain) from the drop down list.
- Select the Access Type as either Read Only or Read/Write.

3. Select the Check Type from the drop down list. You can mouse-over i icon for information.

- Select Specific Check, if the defined conditions are based on individual checks on a single column.
- Select Generic Check, if the defined conditions are based on multiple columns of a single base table. These checks are not pre-defined and can be specified (user-defined) as required.

If Specific Check is selected, perform the following:

• Select **Table Name** and **Base Column Name** from the drop down list. The listdisplays all the tables which are marked for Data Quality Rule in a data model, which has the table classification property code set to **340**.

- (Optional) If you have selected **Base Column** of type Varchar/Char, select the **Substring** check box, enter numeric values in **Parameters Position** and **Length** fields.
- Click the below button and define the **Filter** condition using the **Specify Expression** screen.
- Define the required **Validation Checks** by selecting the appropriate grid and specify the details. You can define nine specific validation checks based on Range, Data Length, Column Reference/Specific Value, List of Value/Code, Null Value, Blank Value, Referential Integrity, Duplicity, and Custom Check/Business.

For more information, refer to Oracle Financial Services Analytical Applications Infrastructure User Manual.

Note: A minimum of one Validation check must be defined to generate a query.

• Click **Generate Query**. The details are validated and the validated query along with the status is displayed in the Generated Query section.

If Generic Check is selected, perform the following:

- Select **Table Name** from the drop down list. The list displays all the tables which are marked for Data Quality Rule in a data model, which has the table classification property code set to **340**.
- Click the below button and define the **Filter** condition using the **Specify Expression** screen.
- Click **Add** button in the **Condition** grid. The Specify Expression screen is displayed. Define the Condition expression.

The Expression is displayed with the "IF" and "Else" conditions along with the **Severity** status as either **Error** or **Warning**. You can change the Severity by selecting from the drop down list.

Note: You can add an Assignment only when the Severity is selected as **Warning**. Assignments are added when you want to correct or update record(s) in base column data / selected column data. There can be one or more assignments tagged to a single condition. However, selecting severity as **Error** indicates there are no corrections and only facilitates in reporting the quantity of bad records.

• Select the check box adjacent to the required Condition expression and click **Add** button in the **Assignment** grid. The assignment details are populated.

Note: You can add an Assignment only if the Severity is **Warning**. There can be one or more assignments tagged to a single condition.

• Specify the Assignment details as tabulated.

| Field | Description |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Column Name | Select the Column Name from the drop down list. |
| Assignment Type | Select the Assignment Type as one of the following: |
| | • No Assignment : is the default selected assignment which does not have any target column update, but the message details are pushed. |
| | • Direct Value: enter the Assigned Value |
| | • Another Column: select the required Column as Assigned Value from the drop down list. |
| | • Code : select the required Code as Assigned Value from the drop down list if any code / leaf values exist for the selected base column. |
| | If not, you are alerted with a message indicating that No Code values exist for the selected base column. |
| Assignment Value | Select the Assignment Value from the drop-down list according to the Assignment Type selected. |
| Message Severity | Select the Message Severity as either 1 or 2 from the drop down list. |
| Message | Select the required Message for the Severity from the drop down list. |

You can also add multiple assignments by clicking Add button in Assignment grid.

Note: Minimum of one condition needs to be defined to save the Rule.

15. Click **Save**. The defined Data Quality Rule definition is displayed in the **Data Quality Rule Summary** screen with the status as **"Saved**".

View Data Quality Rule

You can view individual Data Quality Rule definition details at any given point.

To view the existing Data Quality Rule definition in the Data Quality Rule Summary screen:

- 1. Select the check box adjacent to the required DQ Name.
- 2. Click **View** button from the Data Quality Rules tool bar.

The **DQ Definition** screen displays the details of the selected Data Quality

definition. The **Audit Trail** section at the bottom of DQ Definition screen displays metadata information about the Data Quality Rule defined.

Modify Data Quality Rule

You can update the existing Data Quality Rule definition details except for the Definition Name, Table, and Base Column selected.

To update the required Data Quality Rule definition details in the Data Quality Rule Summary screen:

1. Select the check box adjacent to the required DQ Name.

Note: You can only edit those rules which have status either as Saved or as Rejected.

 Click Edit button from the Data Quality Rules tool bar. The Edit button is disabled if you have selected multiple DQ Names. The DQ Definition screen is displayed. Update the details as required.

For more information, see Create Data Quality Rule section.

3. Click **Save** to update the changes.

Copy Data Quality Rule

You can copy the existing Data Quality Rule to quickly create a new DQ definition based on the existing rule details or by updating the required parameters.

To copy an existing Data Quality Rule definition in the Data Quality Rule Summary screen:

- 1. Select the check box adjacent to the required DQ Name in the list whose details are to be duplicated.
- 2. Click **Copy** button from the Data Quality Rules tool bar. Copy button is disabled if you have selected multiple check boxes. The DQ Definition screen is displayed.
- 3. Edit the **DQ definition Name** and other details as required.

For more information, see Create Data Quality Rule section.

4. Click **Save**. The defined Data Quality Rule definition is displayed in the Data Quality Rule Summary screen with the status as "**Saved**".

Approve/Reject Data Quality Rule

You (Authorizer) can Approve a pre-defined Data Quality Rule definition for further execution or Reject an inappropriate DQ definition listed within the **Data Quality Rule** Summary screen. You should be mapped to DQ Authorizer function role to Approve or Reject a DQ definition.

To Approve/Reject Data Quality Rule in the Data Quality Rule Summary screen:

- 1. Select the checkbox adjacent to the required DQ Name. Ensure that you select the "Saved" DQ definition based on the Status indicated in the **Data Quality Rules** grid.
- 2. Perform one of the following:
- To Approve the DQ definition, click **Approve** button. The **User Comments** screen is displayed. Enter the notes or additional information to the user and click **OK**. The selected DQ definition is approved and a confirmation dialog is displayed.
- To Reject the DQ definition, click **Reject** button. The **User Comments** screen is displayed. Enter the notes or additional information to the user and click **OK**.

The selected DQ definition is rejected and a confirmation dialog is displayed.

Note: The authorizer can approve/reject only one definition at a time.

The Approved/Rejected status of the DQ definition is indicated in the **Status** column of the **Data Quality Rule Summary** screen. You can mouse-over the **i** button to view the **Approver** comments in a pop-up.

Delete Data Quality Rule

You can remove Data Quality Rule definition(s) which are created by you and which are no longer required in the system by deleting from **Data Quality Rule Summary** screen.

- 1. Select the check box adjacent to the required DQ Name whose details are to be removed.
- 2. Click Delete button from the Data Quality Rules tool bar.

3. Click **OK** to confirm deletion.

Data Quality Groups Summary

Data Quality Groups Summary within the Data Integrator framework of Infrastructure system facilitates you to logically group the define DQ definitions and schedule for execution. DQ definitions can be executed either through Data Quality Groups Summary screen of Data Integrator framework or in Batch Execution screen of Operations module.

When a Data Quality Group is executed for processing, the details of the execution are captured in a log file. You (Business Analysts) need to have ETL Analyst function role mapped to access the Data Quality Summary framework within the Infrastructure system. You can access Data Quality Groups Summary by expanding the Data Quality framework within the Unified Metadata Manager section in tree structure of LHS menu.

Figure 19. Data Quality Group Summary

| | | Data Quality Groups Summ | ary | | |
|-----------------------|-------------------|--------------------------|---------------|------------------------|---------------------------|
| 9 Search | | | | | B D |
| Group Name | | Description | | | |
| Rule Name | | | | | |
| * Data Quality Groups | 1 | | 🖻 🗖 🗖 🖬 î | πi O o | o 4 of 4 (1 - 0 - 12 - 12 |
| Group Name 🛦 | Description | Creation Date | Created By | Last Modification Date | Last Modified By |
| Aad-exe | DQ rule execution | 10/04/2011 | STUSER | 10/04/2011 | STUSER |
| Asd-exe1 | Asd-exe | 10/04/2011 | STUSER | 10/04/2011 | STUSER |
| Asd-exe2 | Aad-axe1 | 10/04/2011 | STUSER | 10/04/2011 | STUSER |
| TestGP1 | TestGP1 | 10/03/2011 | STUSER | 10/03/2011 | STUSER |
| > Data Quality Rules | | | | 1 t | oiorid (P.B. |
| DQ Name | Description | Table Name | Column Name | Creation Date | Created By |
| asd | asd | DIN_ACCOUNT | d_closed_date | 10/04/2011 | STUSER |

The **Data Quality Groups Summary** screen displays the list of pre-defined Data Quality Groups with the other details such as Group Name, Description, Creation Date, Created By, Last Modification Date, and Last Modified By. You can Create and Execute DQ Group definitions and view, modify, copy, or delete DQ Group definitions within the Data Quality Groups Summary screen.

You can also make use of Search and Pagination options to search for a DQ Group definition based on Group Name, Description, or Rule Name and view the existing DQ Group definitions within the system.

Create Data Quality Group

You can create a DQ Group definition by defining the DQ Definition details and mapping the required DQ Rules which are authorized and approved within the system.

To create DQ Group in the Data Quality Groups Summary screen:

1. Click **Add** button in the **Data Quality Groups** tool bar. Add button is disabled if you have selected any check box in the grid. The **Data Quality Group Definition** screen is displayed.

Figure 20. Data Quality Group Definition

| | [| ata Quali | ty Gro | up Definition | |
|--------------------------|------------------------------|----------------|--------|---------------------------|-----|
| Data Quality Groups > Da | ata Quality Group Definition | on (New mode) |) | | |
| * Data Quality Group | p Definition | | | | |
| Group Name * | DQ_Group_1 | DQ_Group_1 | | | |
| Description * | Data_Quality | _Group_Definit | ion_1 | | |
| Folder | FUSamhm | | | ~ | |
| Map DQ Rules | | | | | |
| Available Rules | | | | Mapped Rules | |
| 12920637 _validation | | ~ | | 13146318_validation_30Nov | |
| 12929759_testing | | | | 13241934 _VALIDATION_code | |
| 13146318_validation_30 | Nov_R2 | | | | |
| 13146328_VALIDATION | _copy | | - | | |
| 13342273_testing | | | E+ | | |
| 33_3 | | | | | |
| APPROVE_REJECT_leng | th_Rejectio | | E: | | |
| 8888 | | | | | |
| Boundary_value_min_ma | ах | | + | | |
| CHECKS_FOR_VARCHA | R_SPECIFIC | | | | |
| CODE | | | 13 | | |
| CustomChecktype | | | - | | |
| Customized_chktype | | | | | |
| DATA_LENGTH_DEMO | | | | | |
| DIMA1 | | | | | |
| | | ~ | | | |
| Validation_code | | (M) | | | (M) |
| | | | | | |

- 2. In the Data Quality Group Definition section, perform the following:
- Enter the **Group Name** by which you can identify the DQ Group.
- Enter a description or related information about the DQ Group.
- Select the Folder (available for selected Information Domain) from the drop down list.
- 3. In the Map DQ Rules section, perform the following:
- Select the required DQ Rule from the **Available Rules** list and click **Select**. You can also search to select a specific DQ Rule by entering the required keyword and clicking the **Find** button.
- To select all the listed DQ Rules, click **Select All**.

You can also deselect a DQ Rule by selecting from the Mapped Rules list andclicking **Deselect** or clicking **Deselect All** to deselect all the mapped rules. You can search to deselect a specific DQ Rule by entering the keyword and clicking the **Find** button. S

4. Click **Save**. The defined DQ group is listed in the **Data Quality Rule Summary** screen and can be executed for processing.

Execute Data Quality Group

You can execute a defined DQ Group Definitions along with the mapped Rules and validation checks in the **Data Quality Rule Summary** screen. You can also execute a DQ Group in the Batch Execution screen of Operations module.

To Execute a DQ Group in the **Data Quality Rule Summary** screen:

- 1. Select the checkbox adjacent to the required Group Name.
- 2. Click **Execute** button from the Data Quality Groups tool bar. Execute button is disabled if you have selected multiple check boxes. The **Group Execution** screen is displayed.
- 3. In the Batch Details section, perform the following:
- Select the **MIS Date** using the Calendar. MIS Date refers to the date with which the data for the execution would be filtered. In case MIS date is not present in the target table, execution happens ignoring the date parameter.

Note: The DQ Batch ID is auto populated and is not editable.

- Specify the percentage of **Threshold (%)** limit in numeric value. This refers to the maximum percentage of records that can be rejected in a job. If the percentage of failed records exceeds the Rejection Threshold, the job will fail. If the field is left blank, the default the value is set to 100%.
- 4. Click Execute. A confirmation message is displayed and the DQ Group is scheduled for execution.

Once the DQ Group is executed, you can view the details of the execution along with the log information in the **View Logs** screen.

For more information, see View Data Quality Group Summary Log section.

View Data Quality Group

You can view individual Data Quality Group definition details at any given point.

To view the existing DQ Group definition in the Data Quality Group Summary screen:

- Select the check box adjacent to the required Group Name. The mapped DQ Rules are displayed in the Data Quality Rules section.
- 2. Click **View** button from the Data Quality Groups tool bar. The Data Quality Group Definition screen displays the DQ definition details.

Modify Data Quality Group

You can update the existing DQ Group definition details except for the Group Name.

To updated the required DQ Group definition details in the Data Quality Groups Summary screen:

- 1. Select the check box adjacent to the required Group Name.
- 2. Click **Edit** button from the Data Quality Groups tool bar. The Data Quality Group Definition screen is displayed.
- 3. Update the details and click Save to update the changes.

Copy Data Quality Group

You can copy the existing DQ Group details to quickly create a new DQ definition based on the existing details or by updating the required parameters.

To copy an existing DQ Group definition in the Data Quality Groups Summary screen:

- 1. Select the check box adjacent to the required Group Name in the list whose details are to be duplicated.
- 2. Click **Copy** button from the Data Quality Groups tool bar. Copy button is disabled if you have selected multiple check boxes. The Data Quality Group Definition screen is displayed.
- 3. Edit the DQ Group Name and other details as required.
- 4. Click Save. The new DQ Group definition is displayed in the Data Quality Groups Summary screen.

View Data Quality Group Summary Log

You can view the execution log details of Data Quality Rules in the View Logs screen. The **View Logs** screen displays the details such as Check Name, Log Message, Message Date, Message Time, Total Rows, Rows Impacted, Assignment Type, Assignment Severity, and Severity Message of the executed Data Quality Rules.

To view the Data Quality Rule execution log details in the Data Quality Groups Summary screen:

1. Select the check box adjacent to the Group Name in the Data Quality Groups grid.

The Data Quality Rules associated with the selected Group are displayed in the Data Quality Rules grid.

- 2. Select the check box adjacent to the DQ Name in the Data Quality Rules grid.
- 3. Click **View Logs** button. The View Logs screen is displayed.
- 4. In the View Logs screen, select the Information Date from the drop down list.

Based on the selection, you can select the Group Run ID and Iteration ID from the corresponding drop-down list.

5. Click the below button from the Group Execution details tool bar.

F

The Data Quality Rule Logs grid displays the execution log details of the selected Data Quality Rule. You can also click **Reset** button in the Group Execution details tool bar to reset the selection.

Delete Data Quality Group

You can remove the DQ Group definition(s) which are created by you and which are no longer required in the system by deleting from Data Quality Groups Summary screen.

To delete:

- 1. Select the check box adjacent to the required Group Name whose details are to be removed.
- 2. Click Delete button from the Data Quality Groups tool bar.
- 3. Click **OK** in the information dialog to confirm deletion.

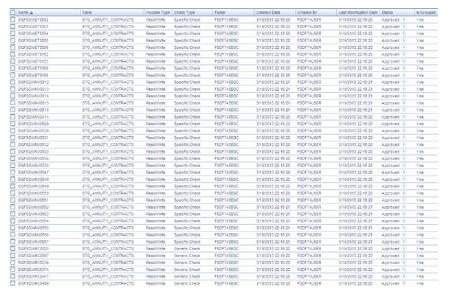
Data Quality Rules For Staging Tables

Data Quality (DQ) Rules are framed and created based on Staging Tables. Each rule is based on specified staging table column Specific Check or table Generic Check. The rules created for each of the tables are detailed in the <u>DQ_Check_Rules</u> spreadsheet.

In Specific Check, a particular column is checked based on rule's predefined checks, where as in Generic Check any columns are not specified. Generic Check is useful if you have a check which is not Specific or you use IF-ELSE conditions or CASE statements.

The following screen displays the Specified DQ Rules:

Figure 21. Specified DQ Rules



Data Quality Groups for Staging Tables

To execute any DQ rule, a Group must be created and the rules for execution has to be mapped with this group. For each staging table, a group has to be created and rules for these particular table have to be mapped under this Group.

For more information regarding Group Execution, refer to the section Execute Data Quality Group as follows.

The DQ_Group_Mapping spreadsheet displays the total groups and corresponding Rules mapped to that Group.

DQ Group Execution

You can execute the DQ Rules either from Data Quality Group Summary window or via a Batch execution.

To execute the Data Quality Groups from the Data Quality Groups Summary window:

| Eiguro 22 | | Group | Execution |
|------------|----|-------|-----------|
| rigure zz. | שע | Group | Execution |

| | | Data Quality Groups Summary | | | |
|----------------------------|------------|-----------------------------|------------|------------------------|------------------|
| Data Quality Groups | | | | | |
| * Search | | | | | |
| Name | | Description | | | |
| Rule Name | | | | | |
| * Data Quality Groups | | | | | 1+10/144 31.6 🖸 |
| Name 🛦 | Falder | Creation Date | Created By | Last Modification Date | Last Modified By |
| STG_ACCOUNTING_HEAD | PSDF74SEGC | 3/3/2012 00:00:00 | FSOFT4USER | 3/3/2012 00:00:00 | FSOFT4USER: |
| STOLACCOUNTING_HEAD_MASTER | PS0F7458GC | 3/0/2012 00:00:00 | FSOFT4USER | 2/3/2012 00:00:00 | FSOFTHUSER |
| STO_ACCOUNT_CASH_FLOWS | FSDF74SEGC | 3/3/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSOF74USER |
| STG_ACCOUNT_MONT_MASTER | PSDF74SEQC | 3/3/2012 (00:00:00) | FSD#74USER | 3/3/2012 00:00:00 | FSOF74USER |
| STG_ANNUTY_CONTRACTS | PSDP74SEGC | 3/3/2012 (03:00:00 | FSDFT4USER | 3/3/2012 00:00:00 | FS0F74USER: |
| STO_AANUTY_DOG | PSOF74SEGC | 3/3/2012 02:00:00 | FSDFT4USER | 5/3/2012 00:00:00 | FSOF74USER |
| STO_ANNUTY_TXNS_SUMMARY | PSOF745EGC | 3/3/2012 00:00 | FSOFT4USER | 3/3/2012 00:00:00 | FSOF74USER |
| STO_APPLICANT | FSDF74SEGC | 3/3/2012 00:00 | FSOFT4USER | 3/3/2012 00:00:00 | FSOF74USER: |
| STG_APPLICATIONS | PSDF74SEGC | 3/3/2012 00:00:00 | FSDF74USER | 3/3/2012 00:00:00 | FSOF74USER: |
| STG_BACKOFFICE_TONS | PSDP745EGC | 5/3/2012 00:00:00 | FSOFT-WSER | 5/3/2012 00:00:00 | FSOF74USER |
| · Data Quality Rules | | | | 1.35 | 0-0/0 3.3.7 |
| Name | Folder | Table | Column | Creation Date | Greated By |

1. Select the check box adjacent to the Group, you want to execute.

The corresponding DQ Rules are displayed in Data Quality Rules grid.

| Figure | 23. | DQ | Rules |
|---------|-----|-----|---------|
| . igaio | | D G | i tuioo |

| | | Data Quality Groups Summary | | | |
|----------------------------|------------|-----------------------------|------------|------------------------|-------------------|
| Data Guality Groups | | | | | |
| A Search | | | | | 6 🖬 |
| Name | | Description | | | |
| Rule Name | | | | | |
| * Data Quality Groups | | | | | 1-10/144 0.07 100 |
| Name 🛦 | Folder | Creation Date | Created By | Last Modification Date | Last Modified By |
| STO_ACCOUNTINO_HEAD | F5DF745E0C | 3/5/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER |
| STG_ACCOUNTING_MEAD_MASTER | PSDF74SEGC | 3/3/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER |
| STO_ACCOUNT_CASH_FLOWS | PSDF74SEOC | 3/3/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER |
| STO_ACCOUNT_MONT_MASTER | FSDF74SEGC | 3/3/2012 00:00:00 | FSDF74USER | 3/3/2012 00:00:00 | FSDF74USER |
| STO_ANNUTY_CONTRACTS | F50F74560C | 3/5/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER |
| STG_ANNUTY_TONS | FSDF74SEGC | 3/3/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER |
| STO_ANNUTY_THIS_SUMMARY | FSDF74SEOC | 3/3/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FBDF74USER: |
| STO_APPLICANT | PSOF74SEGC | 3/5/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSOF74USER |
| STO, APPLICATIONS | PSDF74SEQC | 3/5/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER: |
| STG_BACKOFFICE_TIONS | FSDF74SEGC | 3/3/2012 00:00:00 | FSOF74USER | 3/3/2012 00:00:00 | FSDF74USER: |
| · Data Quality Rules | | | | | 1-2/2 0 0 0 |
| Name | Folder | Table | Column | Creation Date | Created By |
| DOFSDWRC0120 | FSDF74580C | STO_ACCOUNTING_HEAD | | 3/19/2013 22:16: | 20 FSOF74USER |
| DOFSCHRC0002 | FSDF74SEGC | STG_ACCOUNTING_HEAD | | 3/19/2013 22:16: | 20 FSDF74USER |

2. Click **Execute** button.

The **Group Execution** window is displayed.

Figure 24. Group Execution

| | | Data Qu | ality Groups Summary | | | | 6 |
|----------------------------|----------------------------|------------------------|-----------------------|------------|---------------------------|-------|-------------------|
| Data Quality Groups | | | | | | | |
| A Search | | | | | | | 6 3 |
| Name | | | Description | | | | |
| Rule Name | | | | | | | |
| * Bata Quality Groups | | | | | | | 1-10/144 3. 7 131 |
| Name A | Fakier | | Creation Date | Created By | Last Medification Date | | Last Modified By |
| STO_ACCOUNTING_HEAD | FSOF74SEOC | | 3/3/2912 00:00:00 | FSDF74USER | 3/3/2012 00:00:00 | | FSOF74USER |
| STO_ACCOUNTING_HEAD_MASTER | R FSOF74SEGC | | 3/3/2912 00:00:00 | PSDF74USER | 3/3/2012 00:00:00 | | FSOF74USER |
| STG_ACCOUNT_CASH_FLOWS | FSOF74SEGC | | 3/3/2012 00:00:00 | FSDF74USER | 3/3/2012 00:00:00 | | FSOF74USER |
| STG_ACCOUNT_MONT_MASTER | #SO#74SEGC | | 3/3/2012 00:00:00 | FSDF74USER | 3/3/2012 00:00:00 | | #SO#74USER |
| STO_ANNUITY_CONTRACTS | #SO#74SEGC | | 3/3/2012 00:00:00 | FSDF74USER | 3/3/2/012 00:00:00 | | #SOF74USER |
| STO_ANNUTY_TONS | FSOF74SEOC | | 3/3/2012 00:00:00 | FSDF74USER | 3/3/2012 00:00:00 | 10 | FSOF74USER |
| STO_ANNUITY_TONS_SUMMARY | E Group Execution - Wind | lows Internet Explorer | | | E 6 🛙 | | FSOF74USER |
| STO_APPLICANT | | | | | | | FSOF74USER |
| STQ_APPLICATIONS | 1 | | Group Execution | | 9 | | FSOF74USER |
| STO_BACKOFFICE_TXXS | Data Quelty Groups > Group | Execution | Group Execution | | | | FSOF74USER |
| * Data Quality Rules | * Batch Details | | | | | | 1-2/2 |
| Name | MIS Date * | 1 | DQ BatchD | FSDF7404 | 0_STG_ACCOUNTING_HEAD_DOB | | Created By |
| Dof50WR00120 | | | | - | | 16:20 | IFSDF74USER |
| DOFSOWR00002 | Threshold (%) | | Additional Parametera | Ma | | 16.20 | FSDF74USER |
| | | | Execute | | | | |

- 3. Enter the MIS Date.
- 4. Click **Execute** button from the **Group Execution** window.

The execution is triggered and the following message is displayed.

Figure 25. Execution Message

| | | Description | | | |
|------------------------|-------------------------------------|------------------------------|-------------|------------------------|-------------------|
| 14 | | | | | |
| a Quality Groups | | | 1.00 | | 1.10/10/10 10:00 |
| # A | Follow | Creation Date | Created By: | Last Medification Date | Last Modified By |
| _ACCOUNTING_HEAD | FSDF745EQC | 3/3/2012 00:00:00 | FSGP74USER | 3/3/2012 00:00:00 | rspr74useR |
| ACCOUNTING_HEAD_MASTER | FSCF745EGC | 3/3/2012 00:00:00 | FSOFT4/SER | 3/3/2012 00:00:00 | FISOF74USER |
| ACCOUNT_CASH_PLOWS | FSDF7458GC | 3/3/2012 08:00:08 | FSOF74USER | 3/3/2012 00:00:00 | FSSF74USER |
| ACCOUNT_MONT_MASTER | FSOF745EOC | 3/3/2012 00:00:00 | P50P74/08R | 3/3/2012 00:00:00 | 750P74U588 |
| ANNUTY_CONTRACTS | F90F749E00 | 3/3/2012 00:00:00 | F50F74U5ER | 3/3/2012 00:00:00 | FISOF74USER |
| ANNUTY_TXNS | FSOF74SEOC | 3/3/2012 00:00:00 | FEDFTNUSER | 3/3/2612 00:00:00 | FIDDF74UIDER |
| ANNOTY TONS SUBMARY | 🚰 Group Descution - Windows Interne | d Explorer | | | FISOF74UISER |
| APPLICANT | | | | | F30F74USER |
| APPLICATIONS | | | | | FIDDF74UIDER |
| BACKOFFICE_TIOIS | Data : 2 Information (14791) We | bpage Dialog | | 8 | FISD#74UBER |
| a Quality Rules | 1.0.0 | | | | 112/2/10/05/05/05 |
| - | MIS Da | | | o pop | Created By |
| SOWRCe 124 | | | | | e po FSDF7eudica |
| EDWEC000.2 | Thread | Satch Triggered Successfully | | | 6.20 FEOF74USER |
| | | | | | |
| | | DR | | | |
| | | 63 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Once the execution is complete, you can view the details from the Data Quality Rules Summary window.

To view the execution logs:

1. Select the check box adjacent to the rule, of which you want tot see the execution log.

Figure 26. Data Quality Summary Window

| | | Data Quality Groups Summary | | | |
|---------------------------------------|------------|-----------------------------|------------|------------------------|-----------------|
| Data Quality Groups | | | | | |
| 4 Search | | | | | 88 |
| Kame | | Description | | | |
| Rule Name | | | | | |
| * Data Quality Groups | | | | | 1-10/144 2.00 |
| Name & | Folder | Creation Date | Created By | Last Nodification Date | Last Hod fed By |
| STB_ACCOUNTING_HEAD | FEOFMEEDC | 3/3/2012 00:00:00 | FSDF74USER | 3/5/2012 00:00:00 | FSOF74VSER |
| STG_ACCOUNTING_HEAD_MASTER | FSDF74SEOC | 3/3/0012 00:00:00 | FSDF74USER | 5/5/2012 00:00:00 | PSOF74USER |
| ST0_ACCOUNT_CASH_PUDIIS | FSOF74SEOC | 3/3/2012 00:00:00 | FSDF74USER | 5/5/2012 00:00:00 | PS0F74USER |
| STS_ACCOUNT_NONT_NASTER | FSOF745EOG | 3/3/0012 00:00 | FSDF74USER | 3/5/0012 00.00 00 | FSOFT-USER |
| STG_AMMUTY_CONTRACTS | FSOF745EGG | 3/3/2012 00:00:00 | FSDF74USER | 3/5/2012 00:00:00 | FS0/14USER |
| STG_ANNUTY_THNS | FSOF74SEGC | 3/30012 00:00:00 | FSDF74USER | 3/5/2012 00:00:00 | FS0/14USER |
| STO_ANNUTY_TXNS_SUMMARY | FBDF7KBEDG | 3/3/2012 00:00:00 | F30F74U301 | 3/5/2012 00:00:00 | f00/7425ER |
| STO_APPLICANT | F30F745C0C | 3/3/2012 00:00 00 | FSOF74USER | 5/5/2012 00:00:00 | #50/14052R |
| 5TB_APPLICATIONS | FS0F745E0C | 5/5/00+2 00:00 | FSOF74USER | 5/5/2012 00:00:00 | #50F74055R |
| STG_BACKOFFICE_TONS | FSOF745EGC | 3/3/3012 00:00 | FSDF74US8R | 5/5/2012 00:00:00 | PSOF74USER |
| * Data Quality Rules | | | | | 1+2/2 |
| Name | Polder | Table | Column | Creation Cute | Created By |
| O O O O O O O O O O O O O O O O O O O | PS0F745EQC | STO_ACCOUNTING_HEAD | | Strew Logar 10 24 | FSOF74USER |
| C OGPSOWRCS002 | 7507145800 | STO_ACCOUNTING_HEAD | | 3/19/2013 22 18 24 | FS0F74USER |

2. Click View Logs button.

The View Logs window is displayed.

Figure 27. View Logs

| | | | | View L | ogs | | | | |
|------------------------------------------------------------------------------|------------------|--|--------------|--------------|------------|---------------|-----------------|--------------------|------------------|
| Data Quality On | oups > View Lops | | | | | | | | |
| * Group Exe | ecution details | | | | | | | | B |
| Information Date Select Information Date Select Oroup RuniD Select Oroup Run | | | | | Run ID | ~ | | | |
| Terston D | | | | | | | | | |
| * Data Qual | ity Rule Logs | | | | | | | Ψ 0-0 | 10 C.T.T.T. |
| Check Name | Log Message | | Message Date | Message Time | Total Rows | Rows Impacted | Assignment Type | Assignment Seventy | Severity Message |
| | | | | No Reci | ords Found | | | | |
| | | | | 0 | lose | | | | |

- 3. Select the Information Date from the drop down list.
- 4. Select the Group Run ID from the drop down list.
- 5. Select the Iteration ID from the drop down list.
- 6. Click the **View Logs** button.

The details of the selected Group Execution are displayed.

Figure 28. Group Execution Details

| Data Quality | Groups > View Logs | | | | | | | | 9 |
|---------------|-------------------------------------------------------|----------------------------------------------|--------------|--------------|-------------|---------------|---------------------------------|---------------------|-----------------|
| * Group E | xecution details | | | | | | | | 6 |
| Information D | ate | 03/12/2013 | * | Gr | Group RuniD | | FSDF74NF0_STG_ACCOUNTING_HEAD_E | | |
| beration D 1 | | | ¥ | | 1 Marco | | | | |
| n Data Qu | ality Rule Logs | | | | | | | ₩ 1-3/3 | (C. C. S. D. |
| Check Name | Log Message | | Message Date | Message Time | Total Revis | Rows impacted | Assignment Type | Assignment Severity | Severity Messag |
| NFO | DQ Batch FSDF74NF0_STG_AC Started -> DQ Batch E | COUNTING_HEAD_DOBATCH_1 xecution - Begins | 05/12/2013 | 20:45:10 | NA. | 164 | NA | NA. | NA. |
| NEO | | records in the base table - | 03/12/2013 | 20:45:10 | o | 0 | NA. | NA. | NA |
| NFO | | COUNTING_HEAD_DOBATCH_1 | 03/12/2013 | 20:45:10 | NA | NA. | NA | NA. | NA |

Batch Execution of DQ Rules

Create a Batch for executing DQ Rules and add a Task to the selected Batch. Add component as RUN DQ RULE and in Dynamic Parameter List, add a DQ Group.

A single Batch can have multiple number of Tasks and each Task is executing the DQ Group. Batch execution facilitates the execution of multiple Groups simultaneously.

You can also use the **Include** or **Exclude** functionality to determine which all groups have to be executed.

The following batches need to be executed in OIDF.

| V_BATCH_ID | V_BATCH_DESCRIPTION |
|---------------------------------------------|-------------------------------------------------------|
| <infodom>_ALM</infodom> | Data Quality batch for ALM tables |
| <infodom>_CAMPAIGN</infodom> | Data Quality batch for CAMPAIGN tables |
| <infodom>_COLLATERAL</infodom> | Data Quality batch for Collateral tables |
| <infodom>_COLLECTION AND RECOVERY</infodom> | Data Quality batch for Collection and Recovery tables |
| <infodom>_CRM</infodom> | Data Quality batch for CRM tables |
| <infodom>_CUSTOMER</infodom> | Data Quality batch for Customer tables |
| <infodom>_EXPOSURE</infodom> | Data Quality batch for EXPOSURE tables |
| <infodom>_GL AND ACCOUNTING</infodom> | Data Quality batch for GL and Accounting group |
| <infodom>_LRM</infodom> | Data Quality batch for LRM tables |
| <infodom>_MARKET RISK</infodom> | Data Quality batch for MARKET RISK tables |
| <infodom>_MASTER</infodom> | Data Quality batch for master tables |
| <infodom>_MISCELLANEOUS</infodom> | Data Quality batch for Miscellaneous tables |
| <infodom>_OP RISK</infodom> | Data Quality batch for OP RISK tables |
| <infodom>_ORIGINATION</infodom> | Data Quality batch for Origination tables |
| <infodom>_PRODUCT PROCESSORS</infodom> | Data Quality batch for Product Processors group |
| <infodom>_RATES</infodom> | Data Quality batch for Rates tables |

| V_BATCH_ID | V_BATCH_DESCRIPTION |
|-----------------------------------------|--------------------------------------------------|
| <infodom>_RATING</infodom> | Data Quality batch for RATING tables |
| <infodom>_SECURITIZATION</infodom> | Data Quality batch for Securitization tables |
| <infodom>_TRANSACTIONS</infodom> | Data Quality batch for Transactions tables |
| <infodom>_TRANSACTION SUMMARY</infodom> | Data Quality batchfor Transaction Summary tables |

The DQ Batches and corresponding groups are detailed in the DQ_Batch_Group_Mapping spreadsheet.

For more information regarding Batch Execution, refer to **Operations** module of Oracle Financial Services Analytical Applications Infrastructure User Manual.

CHAPTER 25 Slowly Changing Dimension (SCD)

This chapter provides information about Slowly Changing Dimension in the Oracle Insurance Data Foundation application and step-by-step instructions to use this section.

This chapter includes the following topics:

- Overview of SCD Process
- Load DIM Account through SCD

Overview of SCD Process

A Slowly Changing Dimension (SCD) is a dimension that stores and manages both current and historical data over time in a data warehouse. SCDs are dimensions that have data that changes slowly, rather than changing on a time-based, regular schedule.

It is considered and implemented as one of the most critical ETL tasks in tracking the history of dimension records. There are three types of SCDs and you can use Warehouse Builder to define, deploy, and load all three types of SCDs.

• Type 1 SCDs - Overwriting

In a Type 1 SCD the new data overwrites the existing data. Thus the existing data is lost as it is not stored anywhere else. This is the default type of dimension you create. You do not need to specify any additional information to create a Type 1 SCD.

• Type 2 SCDs - Creating another dimension record

A Type 2 SCD retains the full history of values. When the value of a chosen attribute changes, the current record is closed. A new record is created with the changed data values and this new record becomes the current record. Each record contains the effective time and expiration time to identify the time period between which the record was active.

• Type 3 SCDs - Creating a current value field

A Type 3 SCD stores two versions of values for certain selected level attributes. Each record stores the previous value and the current value of the selected attribute. When the value of any of the selected attributes changes, the current value is stored as the old value and the new value becomes the current value.

The SCDs used in Data Foundation solutions are listed in the Oracle Insurance Services Data Foundation - SCD Metadata spreadsheet under Technical Metadata for OIDF 8.0.4.0.0

Note: The preceding spreadsheet contains the list of all the SCDs. Only those are relevant to OIDF must be used.

Load DIM Account through SCD

The SCD population in DIM_ACCOUNT table generates individual numeric SKEYs for every account number with an additional leg skey. Below are the columns that will be loaded during SCD population:

- V_ACCOUNT_NUMBER
- N_ACCT_SKEY

- N_RCV_LEG_ACCT_SKEY
- FIC_MIS_DATE

This approach replaces the function load in which the table DIM_ACCOUNT is getting loaded through the function, FN_POPDIMACCOUNT. This loads the following columns into DIM_ACCOUNT table:

- V_ACCOUNT_NUMBER
- N_ACCT_SKEY
- N_RCV_LEG_ACCT_SKEY
- FIC_MIS_DATE

Where, the sources are the different product processor tables present in the solution, which are configured in FSI_DIM_ACCOUNT_SETUP_DETAILS table.

DIM_ACCOUNT SCD

Batch <INFODOM>DIM_ACCOUNT_SCD has been introduced with 30 tasks under it.

These 30 tasks represent the 30 SCD processes where different product processors would be the source and DIM_ACCOUNT would be the target. MAP_REF_NUMs 188 to 217 have been introduced into SYS_TBL_MASTER table, and subsequently into SYS_STG_JOIN_MASTER.

Depending on the requirement by an application, a task can be excluded or included from the batch execution.

Improve SCD Performance

SCD performance can be improved by providing hints and session alter statements.

This requires the presence of the following four columns in SYS_TBL_MASTER:

- merge_hint
- select_hint
- session_enable_statement
- session_disable_statement

These columns are present in the OFSAAI versions 7.3.2.4.0 and above. If these have to be used in OFSAAI versions 7.3.2.2.0 or 7.3.2.3.0, execute the following SQL queries:

```
ALTER TABLE SYS_TBL_MASTER ADD MERGE_HINT VARCHAR2(255)
/
ALTER TABLE SYS_TBL_MASTER ADD SELECT_HINT VARCHAR2(255)
/
ALTER TABLE SYS_TBL_MASTER ADD SESSION_ENABLE_STATEMENT VARCHAR2(255)
/
ALTER TABLE SYS_TBL_MASTER ADD SESSION_DISABLE_STATEMENT VARCHAR2(255)
/
```

During upgrade to OFSAAI 7.3.2.4.0, ensure to backup SYS_TBL_MASTER table and to drop the preceding four columns, if these scripts are executed in any of the OFSAAI versions prior to 7.3.2.4.0. Otherwise, an upgrade to OFSAAI 7.3.2.4.0 may throw an error, since the columns are existing.

- For improving performance, hints for the MERGE query which is generated internally by the SCD can be provided under MERGE_HINT. Session alters could be mentioned under SESSION_ENABLE_STATEMENT and SESSION_DISABLE_STATEMENT columns.
- SESSION_ENABLE_STATEMENTs will be executed before the MERGE in the SCD and SESSION_DISABLE_STATEMENTs will be executed after the SCD MERGE.
- Since all the tasks under the SCD batch for DIM_ACCOUNT works on the same target, the SESSION_DISABLE_STATEMENTs in SYS_TBL_MASTER cannot be provided when tasks are executed. In this case, there can be a separate SQL file to contain all the SESSION_DISABLE_STATEMENTs to be executed once after all the tasks in the SCD are done. The SESSION_DISABLE_STATEMENT will hold a null in SYS_TBL_MASTER table.
- SESSION_ENABLE_STATEMENTs are required to be mentioned only for the first task in the batch. Here the target is the same for all the tasks under a batch. In case any of the tasks are to be executed separately, then the SESSION_ENABLE_STATEMENTs should be mentioned for any one of the tasks which is included in the batch for the execution.

Example

MERGE_HINT and SESSION_ENABLE_STATEMENT in SYS_TBL_MASTER

| Table Name | Stage Table Name | Merge Hint | Session Enable Statement |
|-------------|--------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|
| DIM_ACCOUNT | STG_LOAN_CONTRA CTS_V | /*+ parallel(DIM_ACCOUNT,1 0) */ | "alter session enable parallel dml query", "alter table DIM_ACCOUNT nologging parallel 10" |

- All the tasks can be executed in parallel. This might cause the N_RCV_LEG_ACCT_SKEY to have an incremental value as compared to N_ACCT_SKEY.
- Execute the SQL file with all the SESSION_DISABLE_STATEMENTs, after the successful completion of the SCD batch.
- Once the DIM_ACCOUNT table is populated using this approach, you will not be able to use the initial approach (FN_POPDIMACCOUNT) as this will lead to skey conflict.
- Ensure that you have set the value of the sequence seq_dim_account_scd as max (value of skey in DIM_ACCOUNT) +1, before moving from old to new approach.
- The F_LATEST_RECORD_INDICATOR for an existing DIM_ACCOUNT data already loaded by the function should be updated to 'Y' before running the SCD, failing which a new skey might get generated for the same account number.
- SCD execution occurs based on the GAAP code which is configured in SETUP_MASTER table. This has been introduced to tackle the scenario of multiple GAAP codes. Whether or not there exist multiple GAAP codes, SETUP_MASTER should be manually configured as follows:

| V_COMPONENT_CODE | V_COMPONENT_DESC | V_COMPONENT_VALUE |
|------------------|------------------|-------------------|
| DEFAULT_GAAP | DEFAULT_GAAP | USGAAP |

Where V_COMPONENT_VALUE should be manually populated with the required GAAP code.

Handling Multiple GAAP Codes for the Same Account Number for the Same MIS Date in SCD

When multiple GAAP codes exist for the same account number for the same MIS date, configure the SETUP_MASTER table manually as mentioned in the preceding section:

V_COMPONENT_VALUE will hold the GAAP code for which the SCD is to be executed.

If there are different GAAP codes for two distinct account numbers for the same MIS date, then the SCD has to be executed for each GAAP code by changing the V_COMPONENT_VALUE manually in setup_master table. The SETUP_MASTER table should have only one record WHERE V_COMPONENT_DESC = 'DEFAULT_GAAP'.

Handling Multiple GAAP Codes for the Same Account Number for the Same MIS Date in the Function

For FN_POPDIMACCOUNT function, you have to create views and use these views instead of the tables in the FSI_DIM_ACCOUNT_SETUP_DETAILS table. For Product Processors having GAAP code as part of the Primary Key, create a view on the table with filter on the GAAP code as:

where V_GAAP_CODE = (SELECT V_COMPONENT_VALUE FROM SETUP_MASTER WHERE V_COMPONENT_DESC = 'DEFAULT_GAAP')

Use this view under TABLE_NAME in FSI_DIM_ACCOUNT_SETUP_DETAILS table. If there are different GAAP codes for two distinct account numbers for the same MIS date, then the function has to be executed for each GAAP code by changing the V_COMPONENT_VALUE manually in SETUP_MASTER table. The SETUP_MASTER table should have only one record WHERE V_COMPONENT_DESC ='DEFAULT_GAAP'.

Note: If STG_OPTION_CONTRACTS is loaded for two MIS dates, and FN_POPDIMACCOUNT is executed, then all records irrespective of the MIS date will get loaded. To resolve this, remove the expression under SQL_TEXT in FSI_DIM_ACCOUNT_SETUP_DETAILS for STG_OPTION_CONTRACTS and use the same expression to create a view and use this view as the TABLE_NAME in FSI_DIM_ACCOUNT_SETUP_DETAILS.

APPENDIX A

Naming Conventions Used in OIDF Data Model

This Appendix chapter explains the various naming conventions used in OIDF Logical Data Model and Physical Data Model. In addition, the domains in PDM and LDM are also listed with their descriptions.

Naming Conventions Used in OIDF LDM and PDM

ERwin Data Model consists of Logical and Physical data structures for each model file.

The following section explains the various naming conventions used in Oracle Insurance Data Foundation (OIDF) Logical Data Model (LDM) and Physical Data Model (PDM).

- OIDF Logical Data Model Naming Conventions
- OIDF Physical Data Model Naming Conventions
- Domains (PDM and LDM)

OIDF Logical Data Model Naming Conventions

ERwin modeler tool allows two views namely Logical view and Physical view for each model file. Accordingly, the OIDF LDM file can be viewed in logical view mode and physical view mode. Different naming conventions and standards are applied to the two views of the OIDF LDM.

Note: The physical view of the OIDF LDM is not the same as the OIDF PDM. The PDM is a distinct model and is shipped as a separate ERwin File.

- LDM Logical View Mode Entity Naming Conventions
- LDM Physical View Mode Table Naming Conventions

LDM Logical View Mode Entity Naming Conventions

Entities in the logical view are named in such a way that the names themselves convey the functional meaning of the entity. The first letter of each word in an entity name is capitalized (e.g. "Application Stage"). Entity names also contain common suffixes for the classes of entities listed in the table below:

Attribute names also contain common set of suffixes for the classes of attributes as listed in table below:

| Class of Entity | Suffix | Example |
|----------------------|---------|-------------------------|
| Туре | Туре | Asset-Liability Type |
| Group | Group | Product Group |
| Code | Code | Collection Status Code |
| History | History | Account Balance History |
| Associative entities | Map | Customer Account Map |

| Class of Attribute | Suffix | Required Values (If any) |
|----------------------------|--------------|------------------------------------------------|
| Unique Identifier | ID | |
| Reference Identifiers | Reference ID | |
| Code | Code | |
| Number | Number | |
| Name | Name | |
| Description | Description | |
| Boolean Values | Flag | Y or N |
| Indicator | Indicator | More than one value ('A', 'B', 'C', and so on) |
| Percentage | Percent | |
| Rate | Rate | |
| Amount | Amount | |
| Balance | Balance | |
| Term | Term | |
| Frequency | Frequency | |
| Unit | Unit | |
| Record created by | | Created By |
| Record modified by | | Modified By |
| Record created on | | Created On |
| Record modified on | | Modified On |
| Record validity start date | | From Date |
| Record validity end date | | End Date |

LDM Physical View Mode Table Naming Conventions

In the physical view of the OIDF LDM follows a different naming convention for entities and attributes in the model, and these reflect naming standards that are more readily acceptable to table and column naming constraints of common database systems.

The entity names in the physical view mode of the LDM are capitalized and each entity follows the following naming pattern:

- FSW_<Subject Area>_<Table Name>
- 'FSW' is a constant prefix.
- <Subject Area> is abbreviated form of the entity's primary subject area.
- <Table Name> is a meaningful name for the entity with no embedded spaces between words. Table Name may be abbreviated.

| Logical View Name | Physical View Name | Description |
|-------------------|--------------------------|-----------------------------------------------------------------------------------|
| Account Addresst | FSW_ACCT_ACCOUNT_ADDRESS | Account Address entity belonging primarily to Account (ACCT) subject area. |
| Letter Of Credit | FSW_CON_LETTER_OF_CREDIT | Letter of Credit entity belongs primarily to the Contracts (CON) subject area. |

OIDF Physical Data Model Naming Conventions

The OIDF PDM consists of tables grouped into two distinct areas namely the Staging Area and Results Area. The Staging Area consists of tables for data sourcing and the Results Area consists of the star schemas / datamarts for reporting and BI.

ERwin modeler tool allows two views namely Logical view and Physical view for each model file. Accordingly, the OIDF PDM (Physical Data Model) file can be viewed in logical view mode and physical view mode. Different naming conventions and standards are applied to the two views of the OIDF Physical Data Model.

- PDM Logical View Mode Naming Conventions
- PDM Physical View Mode Naming Conventions

PDM Logical View Mode Naming Conventions

In the logical view model, OIDF PDM model tables and columns have descriptive names that readily convey the meaning and use of the element. In the logical view, names of tables and columns can have more than one word with the first letter of each word capitalized. Staging Area structures and Results Area structures have different name prefixes and suffixes as outlined in the table below:

| PDM Area | | Prefix | Suffix | Example |
|---------------|-----------------|--------|--------------|----------------|
| Staging (Data | All Tables | Stage | | Stage Internet |
| Sourcing) | | | | Transactions |
| | Transaction | | Transactions | Stage Card |
| | Tables | | | Settlement |
| | | | | Transactions |
| | Master Tables | | Master | Stage Product |
| | | | | Master |
| Results | All Fact Tables | Fact | | Fact Process |
| (Datamart) | | | | Cashflow |
| | All Dimension | | Dimension | Account |
| | Tables | | | Dimension |

PDM Physical View Mode Naming Conventions

In the physical view model, OIDF PDM tables and columns may have abbreviated words joined by underscore character to form more meaningful and descriptive names.

| PDM Area | | Prefix | Suffix | Example |
|---------------|-------------------------------------------------------------------|--------|---------|-------------------------------|
| Staging (Data | All Tables | STG_ | | STG_LOAN_CONTRACTS |
| Sourcing) | Interface tables for data from MDM and core banking systems | | _INTF | STG_ORG_UNIT_ATTR_INTF |
| | Transaction Tables | | _TXNS | STG_CARDS_SETTLEMENT_ TXNS |
| | Master Tables | | _MASTER | STG_CUSTOMER_MASTER |
| Results | All Fact Tables | FCT_ | | FCT_ACCOUNT_SUMMARY |
| (Datamart) | All Dimension Tables | DIM_ | | DIM_DIM_PRODUCT |

Table names in the physical view are capitalized.

The table below lists the prefix and/or suffix used for columns names in the physical view of the OIDF PDM. The prefix or suffix depends on the class and data type of the column.

Column name prefix to indicate column datatype:

| Column Data Type | Prefix |
|------------------|--------|
| Varchar | v_ |
| Number | n_ |
| Date | d_ |
| Flag | f_ |

| Column Class | Suffix |
|--------------|---------------|
| Method | _method |
| Percentage | _pct |
| Rate | _rate |
| Balance | _bal/_balance |
| Amount | _amt/_amount |
| Term | _term |
| Туре | _type |
| Frequency | _freq |

In addition, frequently occurring keywords in column names may be abbreviated as shown in the following table:

| Name | Abbreviated Form | Name | Abbreviated Form |
|---------------------|------------------|------------------|------------------|
| Accrual | accr | Local Currency | lcy |
| Account | acct | Line Of Business | lob |
| Accounting Currency | acy | Maximum | max |

| Name | Abbreviated Form | Name | Abbreviated Form |
|------------------|------------------|---------------|------------------|
| Address | addr | Minimum | min |
| Adjustment | adj | Mortgage | mort |
| Advance | adv | Message | msg |
| Amount | amt | Multiplier | mult |
| Application | app | Number | num |
| Average | avg | Over Draft | od |
| Balance | bal | Option | opt |
| Business | bus | Origination | org |
| Currency | ссу | Percent | pct |
| Consolidation | cons | Payment | pmt |
| Customer | cust | Prepayment | ppmt |
| Description | desc | Product | prod |
| Dimension | dim | Source | src |
| Detail | dtl | Status | stat |
| Earnings at Risk | ear | Statistics | stats |
| End Of Period | eop | Temporary | temp |
| Error | err | Total | tot |
| Flag | flg | Transaction | txn |
| Frequency | freq | Value at Risk | var |
| Future | fut | Value | val |
| Forex | fx | | |
| Generation | gen | | |
| General Ledger | gl | | |
| Hierarchy | hier | | |
| History | hist | | |

Domains (PDM and LDM)

Domains are Logical data types that are attached to each column within the model. The following table lists the domains and their descriptions.

| Serial No | Domain Name | Domain Description |
|-----------|-------------|--------------------|
| 1 | Date | DATE |
| 2 | Timestamp | TIMESTAMP |
| 3 | Number | NUMBER(10) |
| 4 | Amount | NUMBER(22,3) |
| 5 | Code | NUMBER(5) |
| 6 | Flag | CHAR(1) |
| 7 | Frequency | NUMBER(5) |
| 8 | ID | VARCHAR2(25) |

| Serial No | Domain Name | Domain Description |
|-----------|-------------------|--------------------|
| 9 | Percent | NUMBER(10,6) |
| 10 | Percent_Long | NUMBER(15,11) |
| 11 | Phone_Fax_Number | NUMBER(15) |
| 12 | Rate | NUMBER(10,6) |
| 13 | Term | NUMBER(5) |
| 14 | Alphanumeric_Code | VARCHAR2(10) |
| 15 | Name | VARCHAR2(60) |
| 16 | Currency_Code | VARCHAR2(3) |
| 17 | Short_Description | VARCHAR2(60) |
| 18 | Description | VARCHAR2(255) |
| 19 | Account_Number | VARCHAR2(25) |
| 20 | System_Identifier | NUMBER(20) |
| 21 | Long_Description | VARCHAR2(4000) |

APPENDIX B Reporting Code Description

Reporting Code Description

| Report Code | Report Name |
|------------------|-----------------------------------------------------------------------------------------------|
| BS-C1 | Balance sheet |
| BS-C1B | Off-balance sheet items |
| BS-C1D | Assets and liabilities by currency |
| Country - K1 | Activity by country |
| Cover - A1A | Premiums, claims & expenses - Annual |
| Cover - A1Q | Premiums, claims & expenses - Quarterly |
| OF - B1A (solo) | Own funds (annual template - for solo entities) |
| OF - B1A (group) | Own funds (annual template - for groups) |
| OF - B1Q (solo) | Own funds (quarterly template - for solo entities) |
| OF - B1Q (group) | Own funds (quarterly template - for groups) |
| VA - C2A | Summary analysis of changes in BOF |
| VA - C2B | Analysis of changes in BOF due to investments |
| VA - C2C | Analysis of changes in BOF due to technical provisions |
| VA - C2D | Analysis of changes in BOF due to own debt and other items |
| SCR - B2A | Solvency capital requirement (for undertaking on standard formula or partial internal models) |
| SCR - B2B | Solvency capital requirement (for undertakings on partial internal models) |
| SCR - B2C | Solvency capital requirement (for undertaking on full internal models) |
| SCR - B3A | Solvency capital requirement - market risk |
| SCR - B3B | Solvency capital requirement - counterparty default risk |
| SCR - B3C | Solvency capital requirement - life underwriting risk |
| SCR - B3D | Solvency capital requirement - health underwriting risk |
| SCR - B3E | Solvency capital requirement - non-life underwriting risk |
| SCR - B3F | Solvency capital requirement - non-life catastrophe risk |
| SCR - B3G | Solvency capital requirement - operational risk |
| MCR - B4A | Minimum capital requirement (except for composite undertakings) |
| MCR - B4B | Minimum capital requirement (for composite undertakings) |
| Assets - D1 | Investments Data - Portfolio list (detailed list of investments) - Annual |
| Assets - D1Q | Investments Data – Quarterly (Portfolio list or Quarterly summary) |
| Assets - D1S | Structured products Data - Portfolio list |
| Assets - D2O | Derivatives data – open positions |
| Assets - D2T | Derivatives data - historical derivatives trades |

| Report Code | Report Name |
|-------------|------------------------------------------------------------------------|
| Assets - D3 | Return on investment assets (by asset category) |
| Assets - D4 | Investment funds (look-through approach) |
| Assets - D5 | Securities lending and repos |
| Assets - D6 | Assets held as collateral |
| TP - F1 | Life and Health SLT Technical Provisions - Annual |
| TP - F1Q | Life and Health SLT Technical Provisions - Quarterly |
| TP - F2 | Projection of future cash flows (Best Estimate - Life) |
| TP - F3 | Life obligations analysis |
| TP - F3A | Only for Variable Annuities - Description of guarantees by product |
| TP - F3B | Only for Variable Annuities - Hedging of guarantees |
| TP - F4 | Information on annuities stemming from Non-Life insurance obligations |
| TP - E1 | Non-Life Technical Provisions - Annual |
| TP - E1Q | Non-Life Technical Provisions - Quarterly |
| TP - E2 | Projection of future cash flows (Best Estimate - Non-life) |
| TP - E3 | Non-life Insurance Claims Information |
| TP - E4 | Movements of RBNS claims |
| TP - E6 | Loss distribution profile non-life |
| TP - E7A | Underwriting risks (peak risks) |
| TP - E7B | Underwriting risks (mass risks) |
| Re - J1 | Facultative covers non-life & life |
| Re - J2 | Outgoing Reinsurance Program in the next reporting year |
| Re - J3 | Share of reinsurers |
| Re - SPV | Special Purpose Insurance Vehicles |
| G01 | Entities in the scope of the group |
| G03 | (Re)insurance Solo requirements |
| G04 | Non-(re)insurance Solo requirements |
| G14 | Contribution to group TP |
| G20 | Contribution to Group SCR with D&A |
| IGT1 | IGT - Equity type transactions, debt & asset transfer |
| IGT2 | IGT - Derivatives |
| IGT3 | IGT - Internal Reinsurance |
| IGT4 | IGT - Cost sharing, contingent liabilities, off BS items and other IGT |
| RC | Risk Concentration |

APPENDIX C

Template to Generate Data Dictionary and Download Specification for ERwin 9.x

OFSAA data models have been designed and released on 7.x version of ERwin. However, if there is a requirement to upgrade to the latest version of ERwin (9.x series), the existing procedure to generate DL specification using the published report templates fails in the 9.x version. This is because of architectural changes between the two ERwin versions. This chapter provides information about the procedure to generate data dictionary and download specification for ERwin 9.x, for all OFSAA data models qualified on OIDF 8.0.4.

Prerequisite

Upgrade model to 9.x series before initiating generation of the DL specification.

Procedure

Download the attached excel based template "<u>OFSAA Data Model Dictionary Template.xls</u>" and follow the steps mentioned below. This template is compatible with all the OFSAA data models that are qualified with OIDF version 8.0.4.0.0 and ERwin version 9.x.

- 1. Ensure that the Erwin Data Modeler version is ERwin 9 or later.
- 2. Ensure that macros are enabled in this excel before execution.
- 3. Open the OFSAA data model in ERwin 9 or a later version before executing this template.
- 4. Click the "UDP selection Menu" button to launch UDP selection form.
- 5. Select the appropriate application UDP's (optional).
- 6. Click the "Generate Report" button.
- 7. On successful execution, the following message is displayed "Report generation is Complete".
- 8. The download specification and the data dictionary report is located in "OFSAA_Download_Spec" worksheet.

Note:

To generate report for twoapplication UDP's such as "BASEL_III_USA_ADVNCD" and "OR", you need to manually remove the extra characters from the UDP name in the data model else the execution will throw an error. The UDP names will be fixed in the upcoming release of OIDF.

ORACLE

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