Oracle® Financial Services Institutional Performance Analytics

User Guide

Release 6

Part No. E36903-01

May 2014

ORACLE

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Preface

Intended Audience

Welcome to Release 6 of the *Oracle Financial Services Institutional Performance Analytics User Guide.*

Forward

This user guide documents OFSAA Institutional Performance Analytics for all versions of release 6. Some functional improvements have been introduced in various service packs and point releases within release 6.

This section documents the levels at which various functional enhancements to the Institutional Performance Analytics application were first introduced.

Institutional Performance Analytics release 6.0.2.0.0

- Addition of Relationship Manager Hierarchy, attribution of allocations for a relationship manager at account level, relationship manager dashboards, relationship manager PNL statements. Users can now associate accounts to relationship managers and define the percentage contribution of the relationship manager to the corresponding account. One account to multiple relationship managers and multiple accounts to a single relationship manager association is supported.
- Enabled Product Profitability and LOB Profitability dashboards.
- Addition of Scenario/Forecast measures and dashboard reports. Users can now compare the better or worse for plan against actual for an year. This feature is available as a seeded dashboard.
- AMHM Module has been enabled for the users to manage metadata using UI. Currently Reporting lines as supported on this feature.

- Addition of new stage product processor for commitment contracts. The flow from staging moves to the common account summary and CRM account summary.
- Bridge for loading financial data elements from Profitability (PFT) and Fixed transfer Pricing (FTP) into Customer insight if the user system has PFT and FTP applications.
- Standardization of Metadata
- Enabled cross sell reports as seeded reports on the dashboards for Institutional Performance Analytics
- Essbase Cube for relationship Manager is available as an out of box feature.
- Customer to Account relationship - which defines the association of customer to the accounts.
- Visibility control user OBIEE roles have been enabled. There are three roles which can be used to associate the user. Based on the role associated the dashboards are available to the users. For relationship manager, additional data control also has been enabled where the relationship manager gets to see only the accounts the relationship manager is serving or his subordinates in the hierarchy are serving.
- Enabled run rule framework for the CRM account summary and Account Profitability loads.
- Out of box reports and dashboards now are enhanced to contain RAROC calculations across Profit and Loss statement reports.
- System is enabled for rate triangulation and rate validation for currency conversion.

See Related Information Sources on page ix for more Oracle product information.

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Structure

1 Introduction
2 Overview of Process Flow
3 Dimension Loading Process
4 Time Dimension Population

Business data commonly represents information as of a point in time (for example, a balance as of a point in time) or as of a particular span of time (for example, income for the month of March). Time dimension makes it possible to report the balances by Year, Quarter or Month using the rollup functionality of cubes. Cubes makes it possible to rollup the monthly balances to a quarter and then to a year level. For example, the monthly data for January, February and March gets rolled up to Quarter 1 and the Quarter 1, 2, 3 and 4 data get rolled up to, say Year 2011. The rollup of a particular balance depending on their nature could be a simple additive rollup wherein the child member balances are added up to arrive at the parent node balance (for example, Ending Balance) or non additive rollups wherein a node formula is used to specify how to rollup the child member balances (for example, 3 month rolling average).

5 Account Dimension Population
6 Exchange Rate History Population
7 Account Summary Population

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.

8 Customer Summary Population

This chapter explains the process flow for populating Fact Common Customer Summary table.

9 Fact Data Population
10 Cube Build Process
11 Overview of OFSIPA Reports
A How to Add a New Dimension
B How to Add a New Measure
C How to Develop a New Cube
D How to Define a Batch
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Related Information Sources

Oracle Financial Services Channel Analytics (OFSCA) User Guide

Oracle Financial Services Retail Customer Analytics (OFSRCA) User Guide

Oracle Financial Services Retail Performance Analytics (OFSRPA) User Guide

1

Introduction

Overview of Oracle Financial Services Institutional Performance Analytics (OFSIPA)

Oracle Financial Services Institutional Performance Analytics (OFSIPA) is a complete end-to-end web-based Business Intelligence solution for Customer Analytics.

It provides tools for data integration and includes customizable, pre-built dashboards and reports, a reporting data model, and user friendly functional subject areas for ad-hoc reporting.

It enables you to actively plan, manage, and track marketing investments with pre-built reports, dashboards, and underlying data structures.

The OFSIPA solution is built using:

- OFSAA Infrastructure 7.3 for ETL and Data Integration
- OBIEE 11.1.1.6.1 for Dashboard & Reports activities
- Essbase 11.1.2.2 for multi-dimensional cube storage

This manual deals with essential Oracle Financial Services Analytical Applications (OFSAA) Infrastructure required for OFSIPA activities, process flow for the data transformation and cube building processes, and functional details about the dash boards and reports. In addition, it includes subject areas which could be used for ad-hoc reporting using OBIEE Answers tool.

2

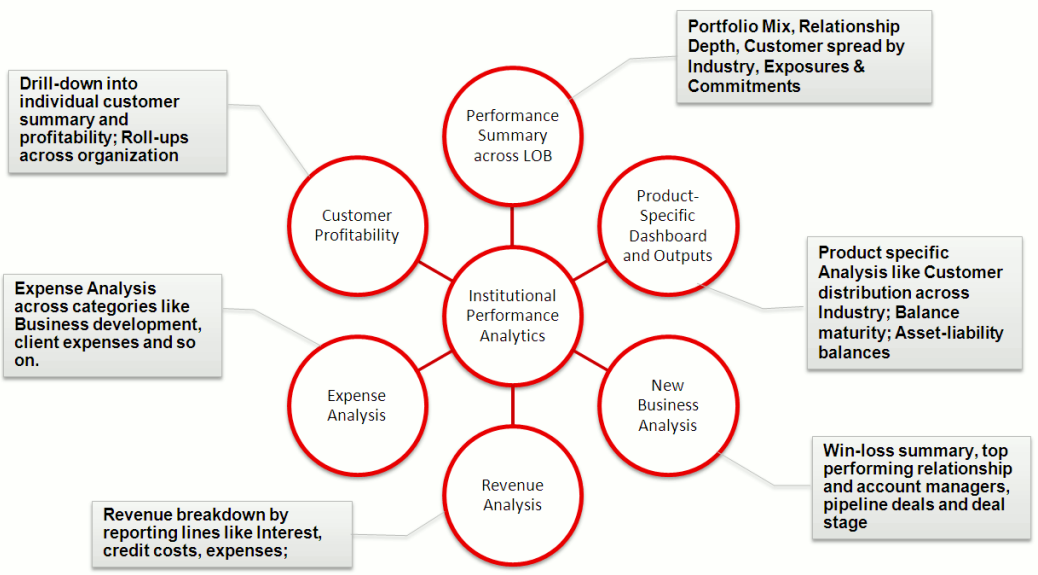
Overview of Process Flow

Introduction

Oracle Financial Services Institutional Performance Analytics (OFSIPA) 6.0 utilizes OBIEE technology to present:

- Behavioral and Engagement trends of its target segments – exposures, commitments, line utilization, assets/liabilities, deposits, withdrawals, fees, income, recent transactions, and so on.
- Performance of the business and underlying customers.
- Product holdings and Relationship depth across the organization (that is Corporate client and any of its sub-divisions or subsidiaries).
- Efficiency of the sales force in terms of ongoing customer revenue generation, cross-sell and up-sell, product usage, and pipeline.
- Efficiency of investments such as marketing, partner development, and so on.

Following diagram depicts the product objectives of OFSIPA 6.0:



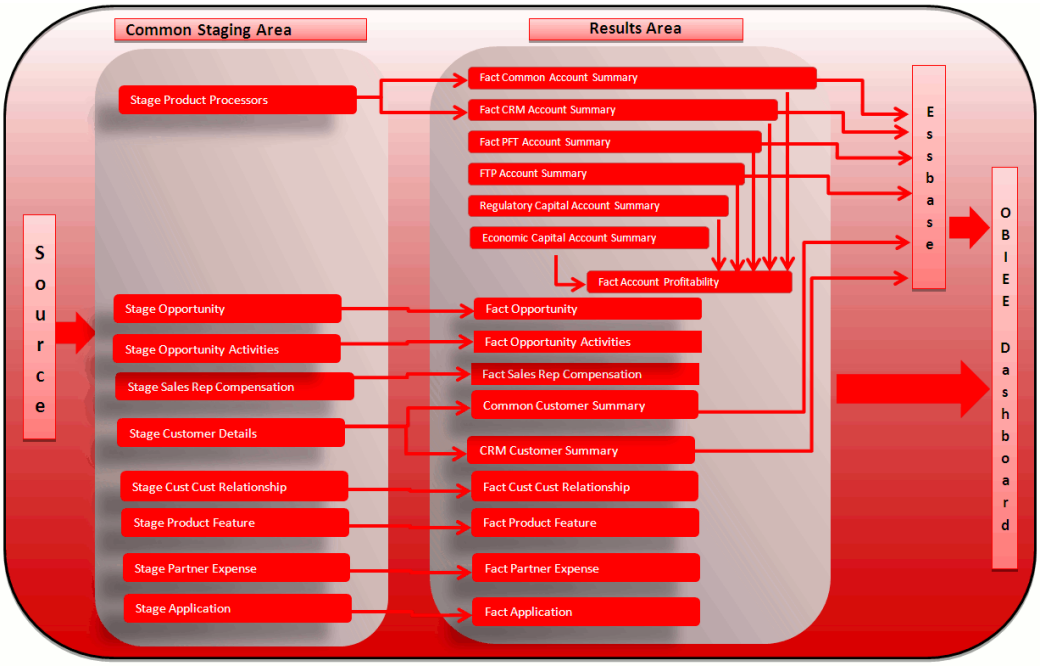
For details on OFSIPA reports and how OBIEE is being utilized, refer chapterOverview of OFSIPA Reports, page 11-1.

OFSIPA is designed for OBIEE reading data from relational database. The relational database comprises of various dimensions and facts in the BI data model. OFSIPA is also designed for OBIEE reading data from Essbase cubes, which stores aggregated data. The Essbase cubes are built from the fact data of the BI data model.

OFSIPA 6.0 can be independently licensed and installed to work on top of the OFSAAI 7.3 infrastructure.

Data Flow

Institutional Performance Analytics data model contains the staging tables from which data is loaded in to the dimensions and fact tables. Staging tables include the master staging tables, detail staging tables, staging product processor tables, and so on. The user has to populate data into these staging tables.



Dimension Data Flow

Dimension data in OFSIPA application is loaded from staging master tables using the Slowly Changing Dimensions (SCD) process. Data from source systems can be loaded into staging through flat file or source system interfaces. SCD process tracks the changes in the dimensional attributes and loads data into dimension tables. Examples of dimension tables that follow the SCD process are Product, Customer Type, Customer, and so on.

Some dimensions are static or maintained internally within the application and are not expected as a download from source system. Examples of such dimensions are Reporting Line. These dimensions are maintained through the AMHM (Attribute Member Hierarchy Maintenance) component of OFSAAI or through other framework components like DEFI.

Following are the list of Dimensions used in OFSIPA:

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance method
Account Status Dimension	Stage Account Status Master	SCD
Application Reject Reasons Dimension	Stage Application Reject Reason Master	SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance method
Application Type Dimension	Stage Application Type Master	SCD
Attrition Dimension	Stage Attrition Reason Master	SCD
Account Management Dimension	Stage Account Mgmt Master	SCD
Country Dimension	Stage Country Master	SCD
Credit Center Dimension	Stage Credit Center Master	SCD
Credit Officer Dimension	Stage Credit Officer Master	SCD
Customer Dimension	Stage Customer Master	SCD
Customer Type Dimension	Stage Customer Type Master	SCD
Decision Status Dimension	Stage Decision Status Master	SCD
Deviation Reasons Dimension	Stage Deviation Reason Master	SCD
Education Dimension	Stage Customer Education Master	SCD
Geography Dimension	Stage Geography Master	SCD
Industry Dimension	Stage Industry Master	SCD
Management Dimension	Stage Account Mgmt Master	SCD
Migration Reasons Dimension	Stage Migration Reason Master	SCD
Offer Dimension	Stage Offer Master	SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance method
Opportunity Dimension	Stage Opportunity	SCD
Opportunity Activity Type Dimension	Stage Activity Type Master	SCD
Organization Structure Dimension	Stage Organization Structure Dimension	SCD
Partner Dimension	Stage Partner Master	SCD
Product Dimension	Stage Product Master	SCD
Product Feature Dimension	Stage Product Feature Master	SCD
Product Type Dimension	Stage Product Type Master	SCD
Prospect Dimension	Stage Prospect Master	SCD
Reason Dimension	Stage Opportunity Win Loss Reason Master	SCD
Retention Offer Type Dimension	Stage Retention Offer Master	SCD
Sales Representative Dimension	Stage Sales Rep Master	SCD
Sales Stage Dimension	Stage Sales Stage Master	SCD
Vendor Dimension	Stage Vendor Master	SCD
Vintage Dimension	Stage Vintage Master	SCD
Line of Business Dimension	Stage Line of Business Master	SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance method
Common Chart Of Accounts Dimension	Common COA Dimension Members, Common COA Hierarchies, Common COA Member Attributes, Common COA Member Translations	SCD
General Ledger Account Dimension	General Ledger Member Attributes, General Ledger Dimension Members, General Ledger Hierarchies, General Ledger Member Translations	SCD
DIM_ORG_UNIT	Organization Unit Member Attributes, Organization Unit Dimension Members, Organization Unit Hierarchies, Organization Unit Member Translations	SCD
Product Dimension	Product Member Attributes, Product Dimension Members, Product Hierarchies, Product Member Translations	SCD
Reporting Line Dimension	Reporting Line Dimension Members, Reporting Line Member Translation, Reporting Line Member Attributes, Reporting Line Hierarchies	AMHM/DT
Band Dimension	Band Dimension Members, Band Member Translation, Band Member Attributes	AMHM/SCD
Region Dimension		Direct Load

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance method
Acquisition Channel Dimension		Direct Load
Instrument Category Dimension		Seeded
Currency Dimension		Seeded
Consolidation Dimension		Seeded
Calendar Dimension		DT
Account Dimension	Staging Product Processor Tables like Stage Annuity Contracts, Stage Bill Contracts, Stage Borrowings, Stage Cards, Stage CASA Accounts, Stage Guarantees, Stage Investments, Stage LC Contracts, Stage Leases Contracts, Stage Loan Contracts, Stage Money Market Contracts, Stage Over Draft Accounts,	DT

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance method
	Stage Term Deposit Contracts,	
	Stage Trusts,	
	Stage Swaps Contracts,	
	Stage Option Contracts,	
	Stage Mutual Funds,	
	Stage Futures And Forwards,	
	Stage Commitment Contracts,	

Some of the stage data can also come from master data management interfaces. In such a case, data from interface is loaded into staging interface tables and SCD is run on the interface tables. Mapping of dimensional attributes to staging can be obtained by querying SYS_STG_JOIN_MASTER and SYS_TBL_MASTER table in the atomic schema.

Key dimensions for reporting

The following key dimensions are required for OFSIPA reporting as these dimensions are being directly consumed by the reports.

- Opportunity Activity Type Dimension
- Attrition Dimension
- Bands Dimension
- Acquisition Channel Dimension
- Consolidation Dimension
- Currency Dimension
- Customer Dimension
- Customer Type Dimension
- Date Dimension

- Geography Dimension
- Account Dimension
- Industry Dimension
- Line of Business Dimension
- Account Management Dimension
- Migration Reasons Dimension
- Opportunity Dimension
- Organization Structure Dimension
- Org Unit BI Hierarchy
- Partner Dimension
- Product Dimension
- Product Type Dimension
- Product Family Holding Dimension
- Prospect Dimension
- Reporting Line Dimension
- Run Dimension
- Sales Representative Dimension
- Sales Stage Dimension
- Scenario Dimension
- Vintage Dimension

Fact Data Flow

Most of the Fact tables are mapped to staging counterparts through Table to Table (T2T) mappings. Data from source systems can be loaded into staging through flat file or source system interfaces. T2T process then loads data to fact tables. Examples include Fact Common Account Summary, Fact Opportunity, and so on. Some of the Fact tables are loaded with processed fact information from other fact tables. Examples include Fact CRM Customer Summary, Fact Account Profitability, and so on.

Fact Entity Name	Source	Source Entities	Method of populating measures
Fact Common Account Summary	Stage	Stage Annuity Contracts, Stage Bill Contracts, Stage Borrowings, Stage Cards, Stage CASA Accounts, Stage Guarantees, Stage Investments, Stage LC Contracts, Stage Leases Contracts, Stage Loan Contracts, Stage Money Market Contracts, Stage Over Draft Accounts, Stage Term Deposit Contracts, Stage Trusts, Stage Commitment Contracts	T2T

Fact Entity Name	Source	Source Entities	Method of populating measures
Fact PFT Account Summary	Instrument	Annuity Contracts, Borrowings, Checking and Savings Account, Credit Cards, Credit Lines, Guarantees, Investments, Leases, Loan Contracts, Mortgages, Term Deposits, Trusts	T2T
Fact FTP Account Summary	Instrument	Annuity Contracts, Borrowings, Checking and Savings Account, Credit Cards, Credit Lines, Guarantees, Investments, Leases, Loan Contracts, Money Market Contracts, Mortgages, Term Deposits, Trusts	T2T

Fact Entity Name	Source	Source Entities	Method of populating measures
Fact CRM Account Summary	Stage	Stage Annuity Contracts, Stage Bill Contracts, Stage Borrowings, Stage Cards, Stage CASA Accounts, Stage Guarantees, Stage Investments, Stage LC Contracts, Stage Leases Contracts, Stage Loan Contracts, Stage Money Market Contracts, Stage Over Draft Accounts, Stage Term Deposit Contracts, Stage Trusts, Stage Commitment Contracts	T2T
Fact Common Customer Summary	Stage	Stage Customer Details,	T2T

Fact Entity Name	Source	Source Entities	Method of populating measures
		Stage Party Rating Details,	
		Stage Party Financials	
Fact CRM Customer Summary	Stage and Fact	Stage Customer Master,	T2T
		Stage Customer Details,	
		Fact Common Account Summary	
		Fact Transaction Channel	
Fact Application	Stage	Stage Applications	T2T
Fact Customer Product Score	Stage	Stage Customer Product Score	T2T
Fact Account Feature Map	Stage	Stage Account Feature Map	T2T
Fact Customer to Customer Relationship	Stage	Stage Customer to Customer Relationships	T2T
Fact Opportunity	Stage	STG_OPPORTUNITY	T2T
FCT_OPPORTUNITY _ACTIVITY	Stage	STG_OPPORTUNITY _ACTIVITY	T2T
Fact Account Profitability	Fact	Fact Common Account Summary,	DT
		Fact FTP Account Summary,	

Fact Entity Name	Source	Source Entities	Method of populating measures
		Fact PFT Account Summary, Fact Regulatory Capital Account Summary, Fact Economic Capital Account Summary	
Fact Account Customer Relationship	Stage	Stage Customer Relationships	T2T
Account Manager Relationship	Stage	Stage Account Manager Relationship	T2T
Fact Forecast And Plan Data	Stage	Stage Forecast and Plan Data	T2T
Exchange Rate History	Stage	Stage Exchange Rates	T2T
Exchange rate Direct Access	Fact	Exchange Rate History	DT

The OFSIPA uses some materialized views registered as "Derived Entity", that has to be refreshed as and when the dependent table has fresh data. The MVs can be refreshed by running the batches crated for the purpose.

The list of Derived Entity and the dependent objects can be found in the table below.

Materialized View	Referenced Name	Referenced Object Type
USRMGRMV	FSI_M_USER_MANAGER_MAP	Table

Materialized View	Referenced Name	Referenced Object Type
WTHREPMV	FCT_ACCOUNT_MGR_REL	Table
WTHREPMV	FCT_ACCOUNT_PROFITABILITY	Table
WTHREPMV	FSI_M_USER_MANAGER_MAP	Table
WTHREPMV	DIM_CUSTOMER	Table
WTHREPMV	DIM_CUSTOMER_TYPE	Table
WTHREPMV	DIM_DATES	Table
WTHREPMV	DIM_LOB	Table
WTHREPMV	DIM_MANAGEMENT	Table
WTHREPMV	DIM_ORG_UNIT	Table
WTHREPMV	DIM_PRODUCT	Table
WTHREPMV	DIM_REP_LINE	Table
WTHREPMV	DIM_RUN	Table
ACNTPFTM	FCT_ACCOUNT_PROFITABILITY	Table
ACNTPFTM	CUSTDETM	MV

Materialized View	Referenced Name	Referenced Object Type
ACNTPFTM	ACNTSMRM	MV
ACNTSMRM	FCT_COMMON_ACCOUNT_SUMMARY	Table
ACNTSMRM	FCT_CRM_ACCOUNT_SUMMARY	Table
CUSTDETM	FCT_COMMON_CUSTOMER_SUMMARY	Table
CUSTDETM	DIM_BANDS	Table
CUSTDETM	DIM_CUSTOMER	Table
CUSTDETM	DIM_CUSTOMER_TYPE	Table
CUSTDETM	DIM_GENDER	Table
FCTCUPTM	FCT_ACCOUNT_PROFITABILITY	Table
FCTCUPTM	CUSTDETM	MV
FCTPRPFT	FCT_ACCOUNT_PROFITABILITY	Table
FCTPRPFT	CUSTDETM	MV
MGMTPFTM	ACNTSMRM	MV

Materialized View	Referenced Name	Referenced Object Type
MGMTPFTM	FCT_ACCOUNT_MGR_REL	Table
MGMTPFTM	FCT_ACCOUNT_PROFITABILITY	Table
MGMTPFTM	CUSTDETM	MV

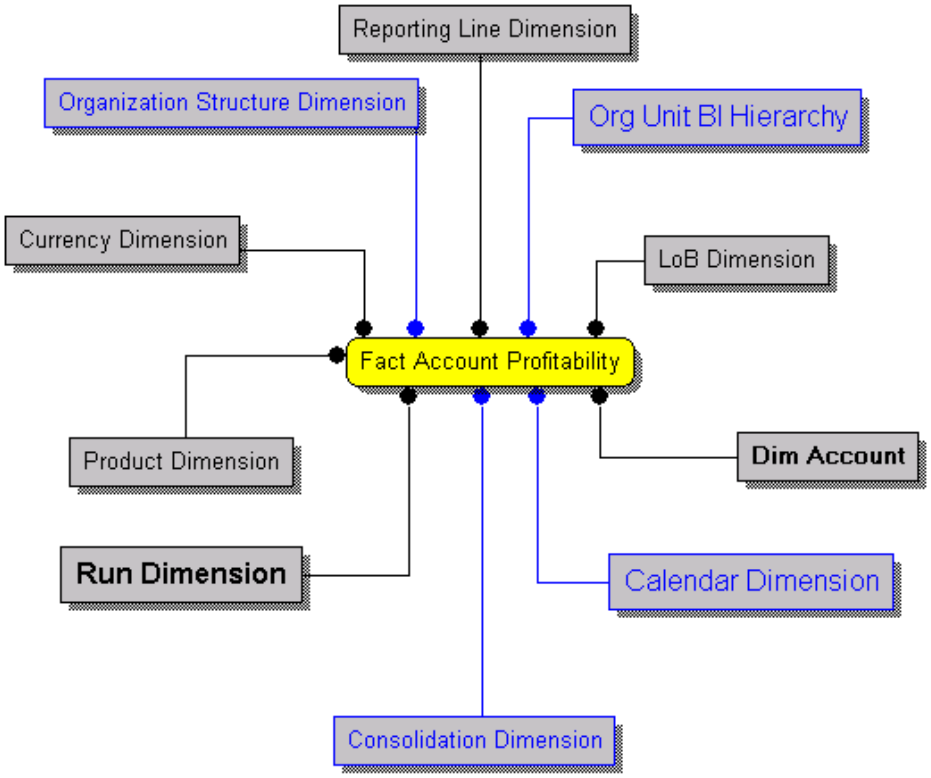
Execute the batches <INFODOM>_FN_REFRSH_DE - Task1 to <INFODOM>_FN_REFRSH_DE - Task8 for refreshing the derived entities. The DT <INFODOM>_FN_REFRSH_DE is invoked from this task. This function refreshes the derived entities (materialized views) when ever the task is executed.

BI Data Model

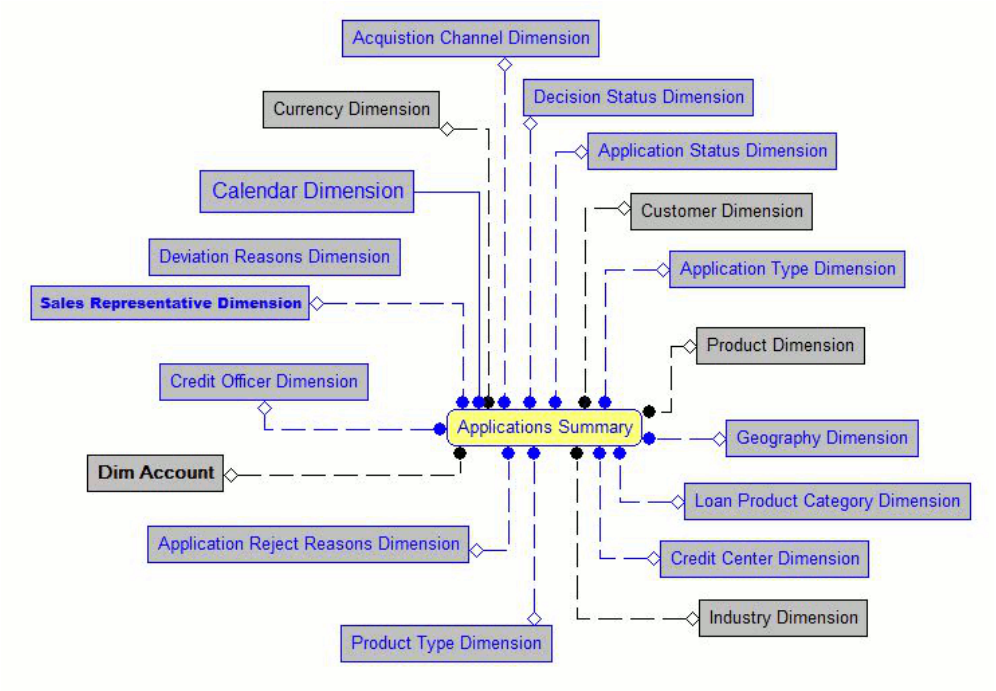
The BI data model is a star schema for the fact tables FCT_LEDGER_STAT and FCT_<Application>_ACCOUNT_SUMMARY.

Following are the subject areas in ERwin data model:

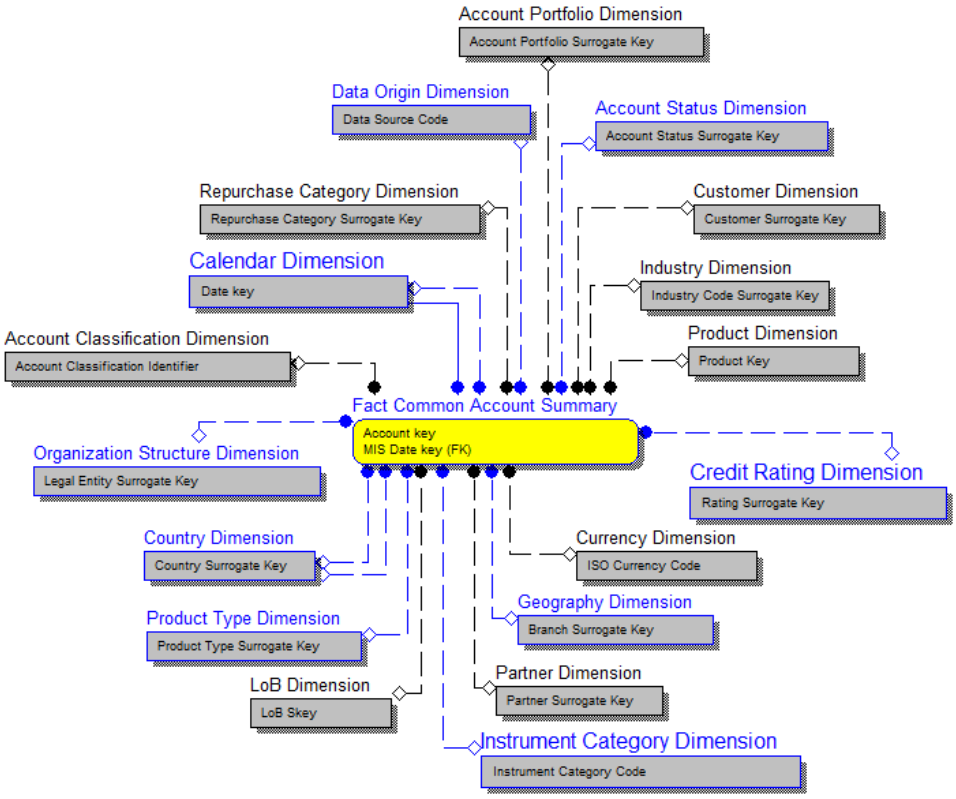
- Account Profitability



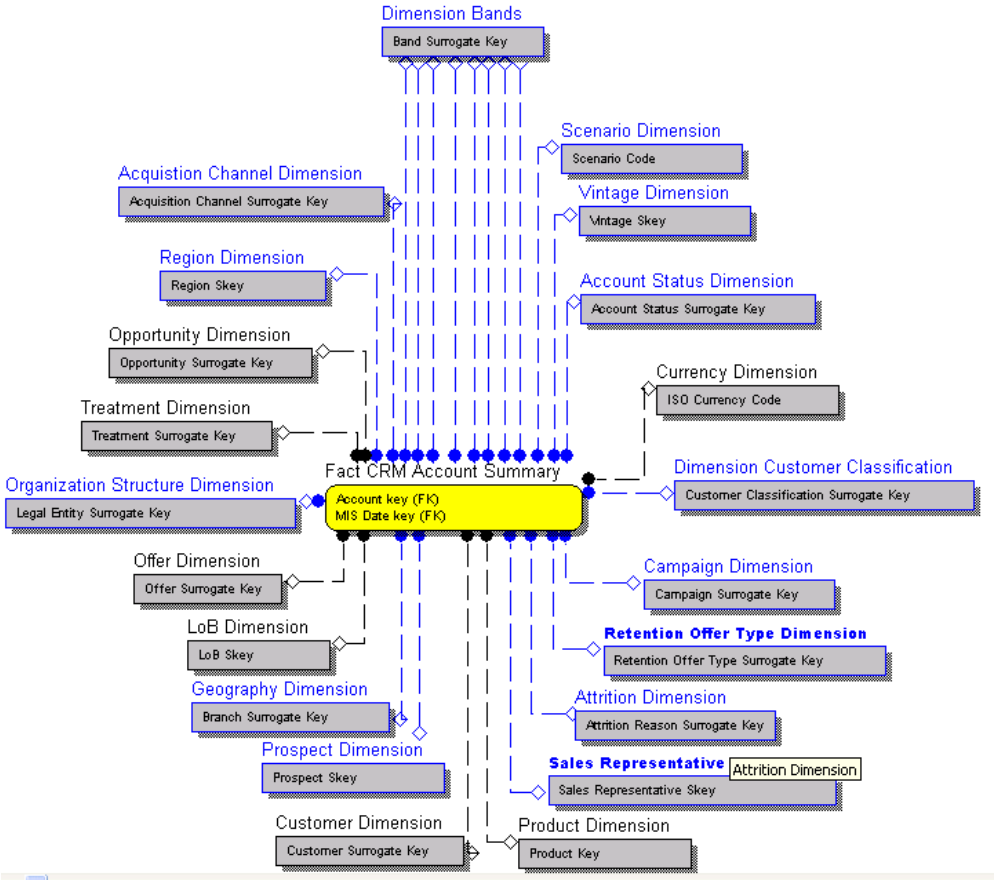
- Application



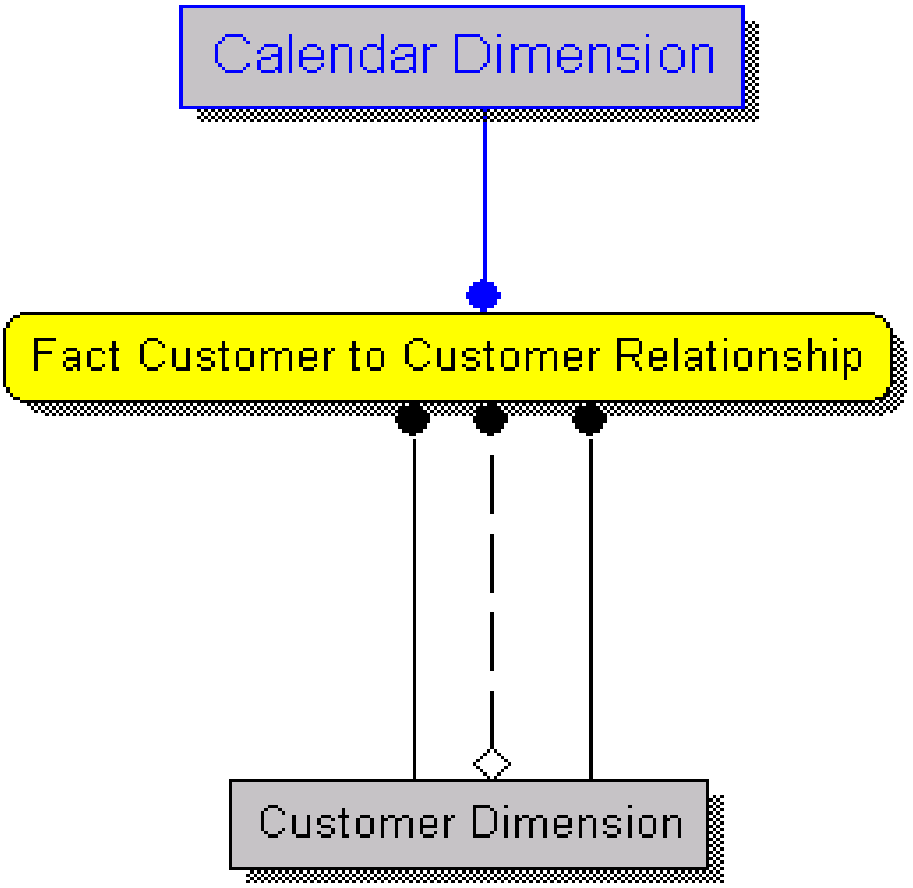
- Common Account Summary



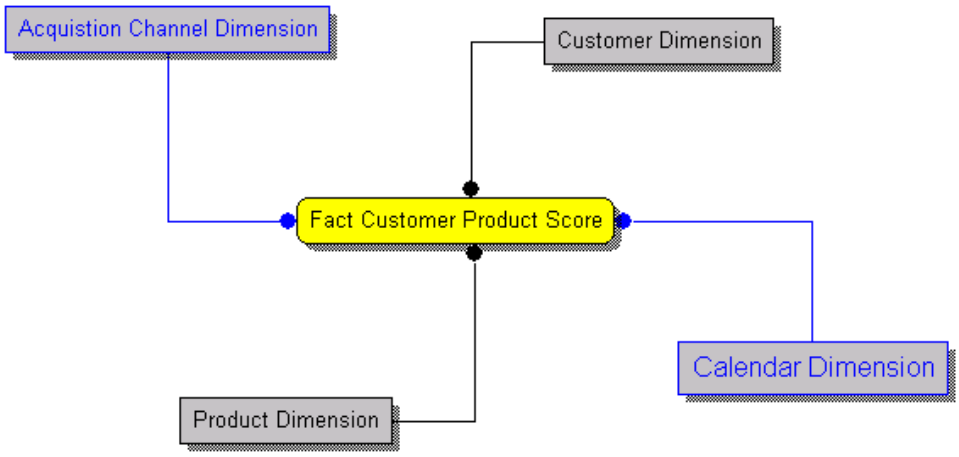
- CRM Account Summary



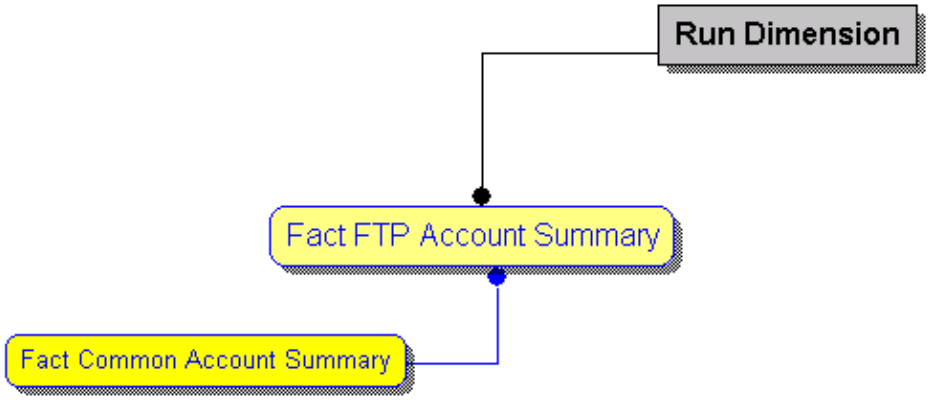
- Customer to Customer Relationship



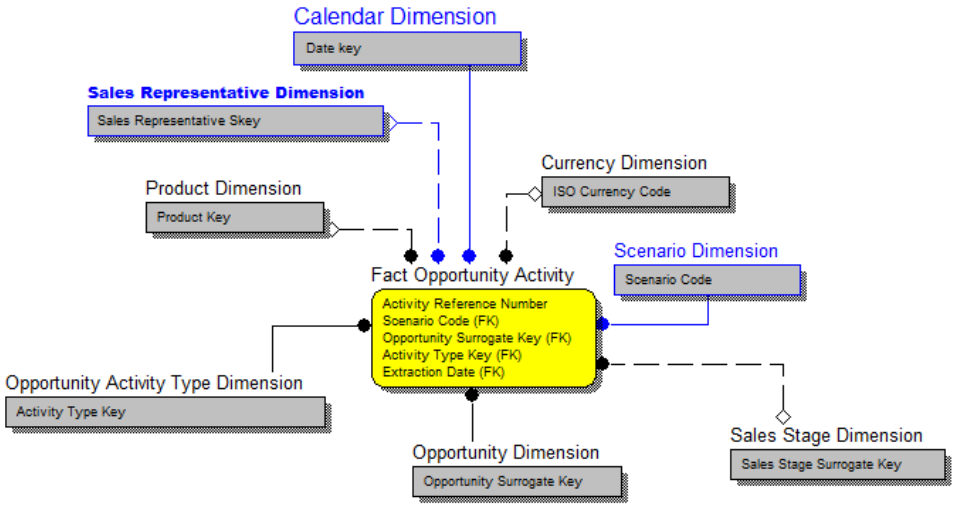
- Customer to Product Score



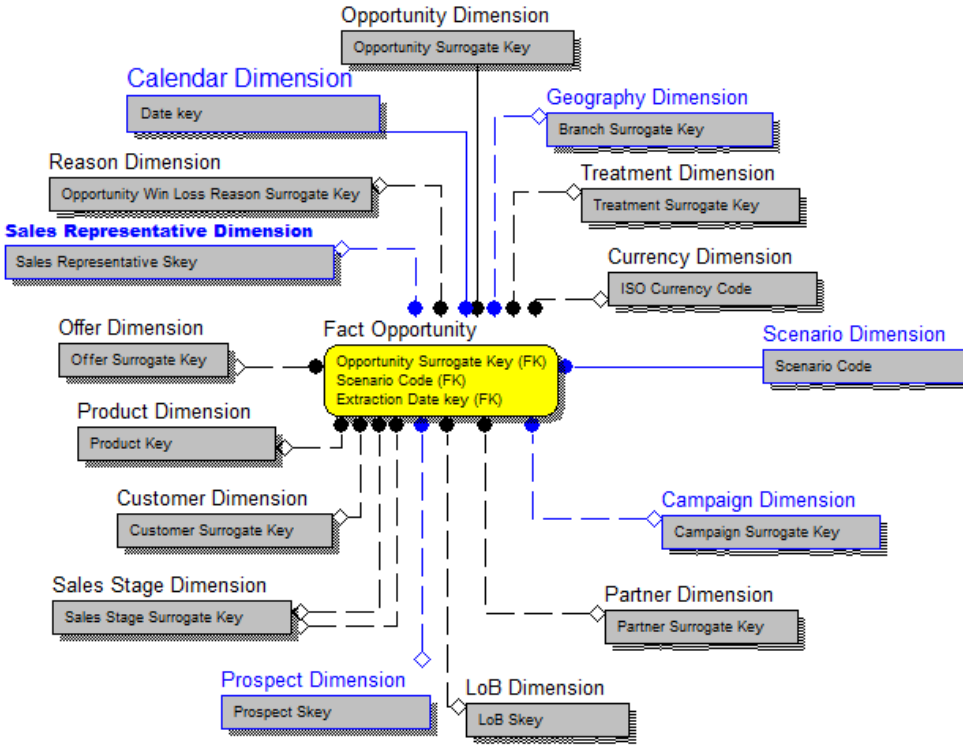
- FTP Account Summary



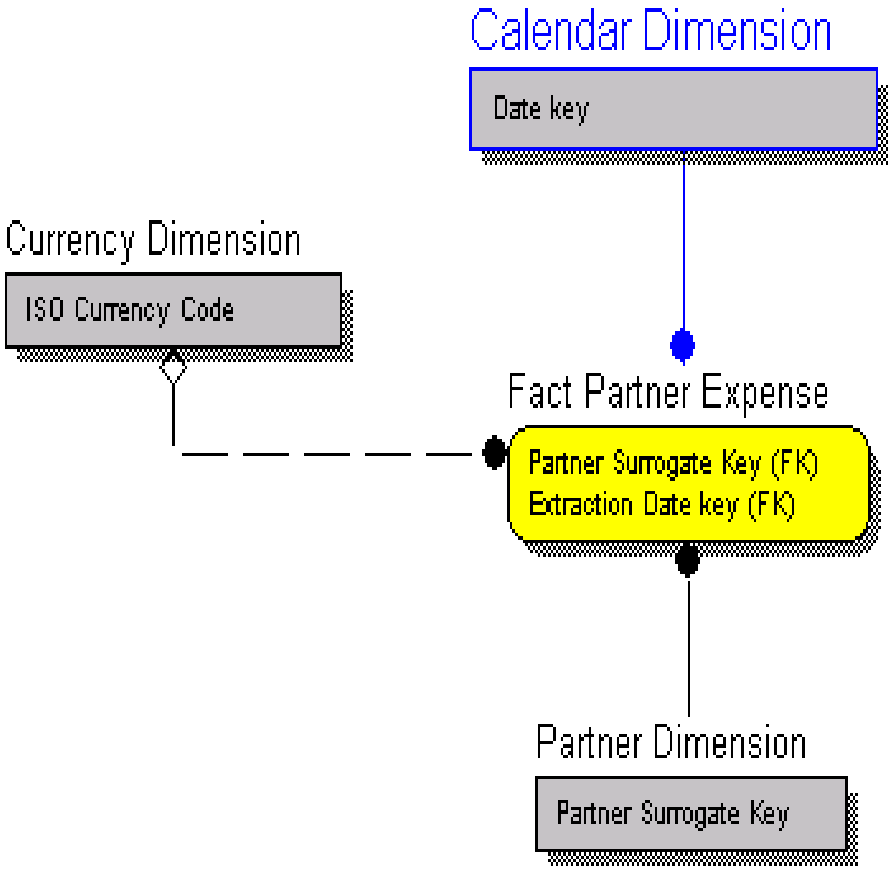
- Opportunity Activity



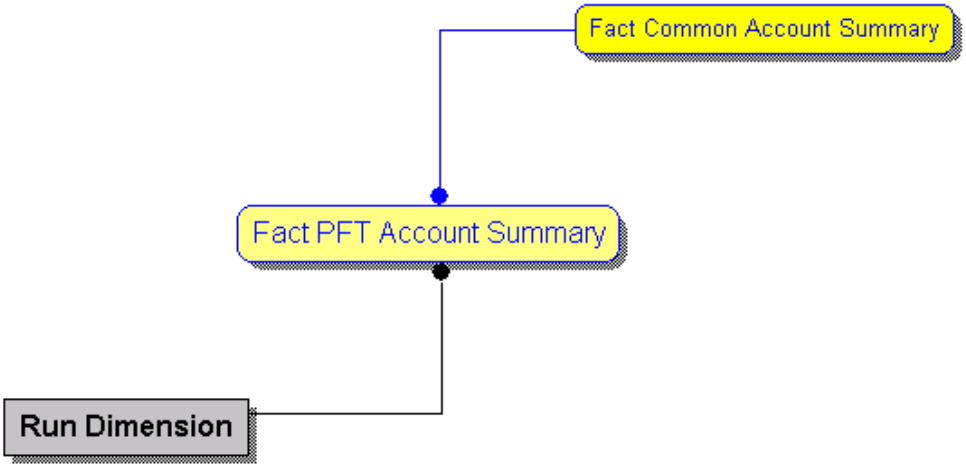
- Opportunity Summary



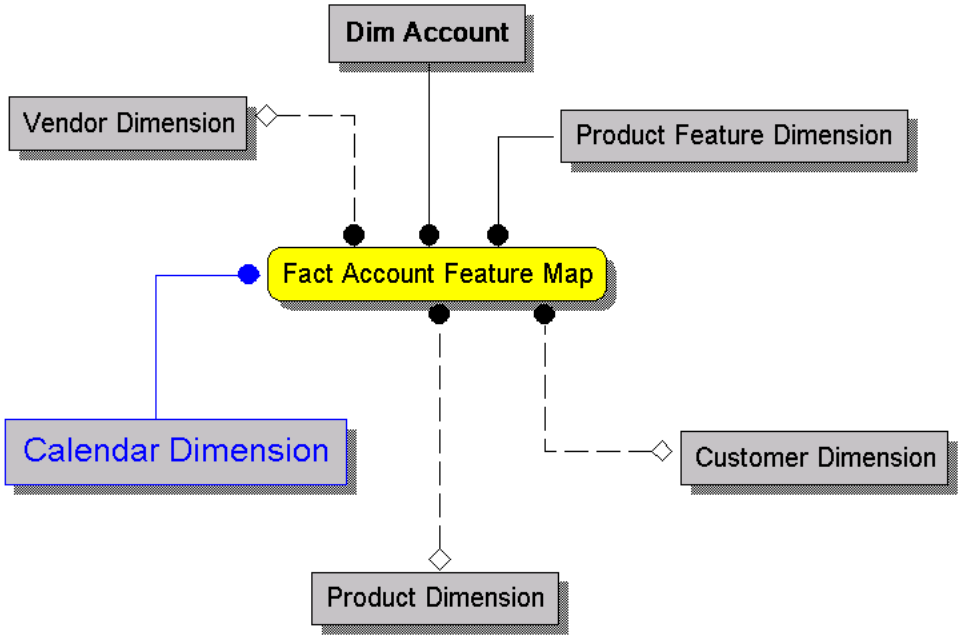
- Partner Expense Summary



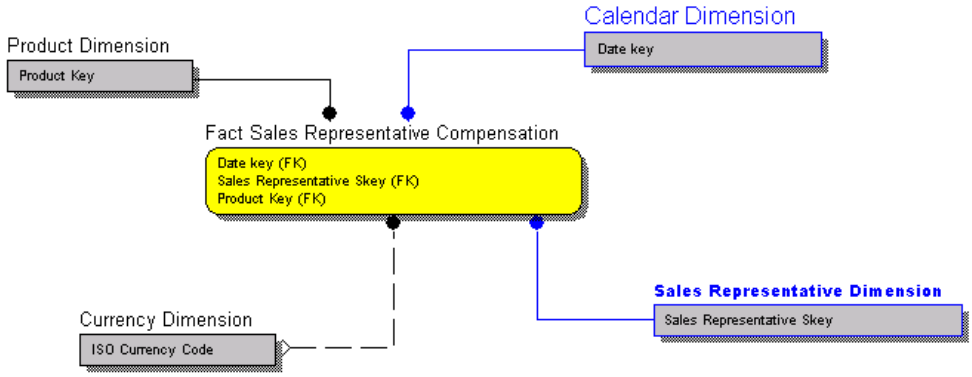
- PFT Account Summary



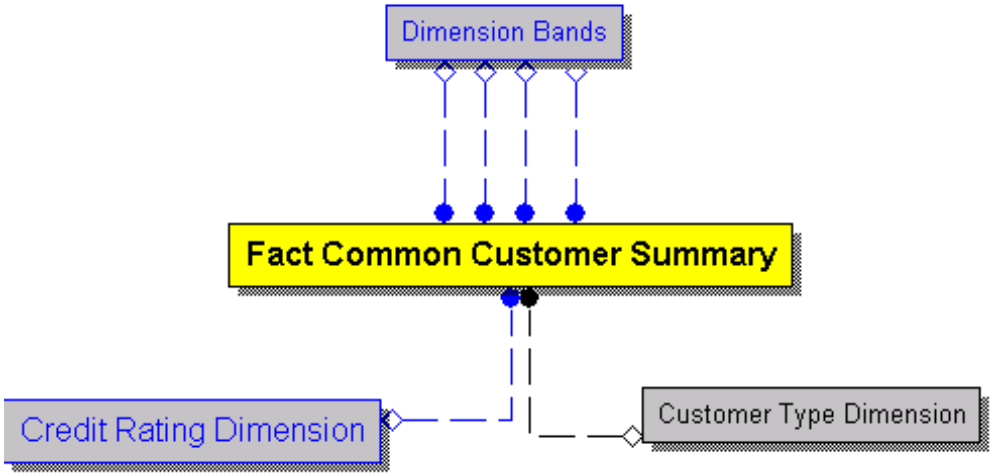
- Product Feature



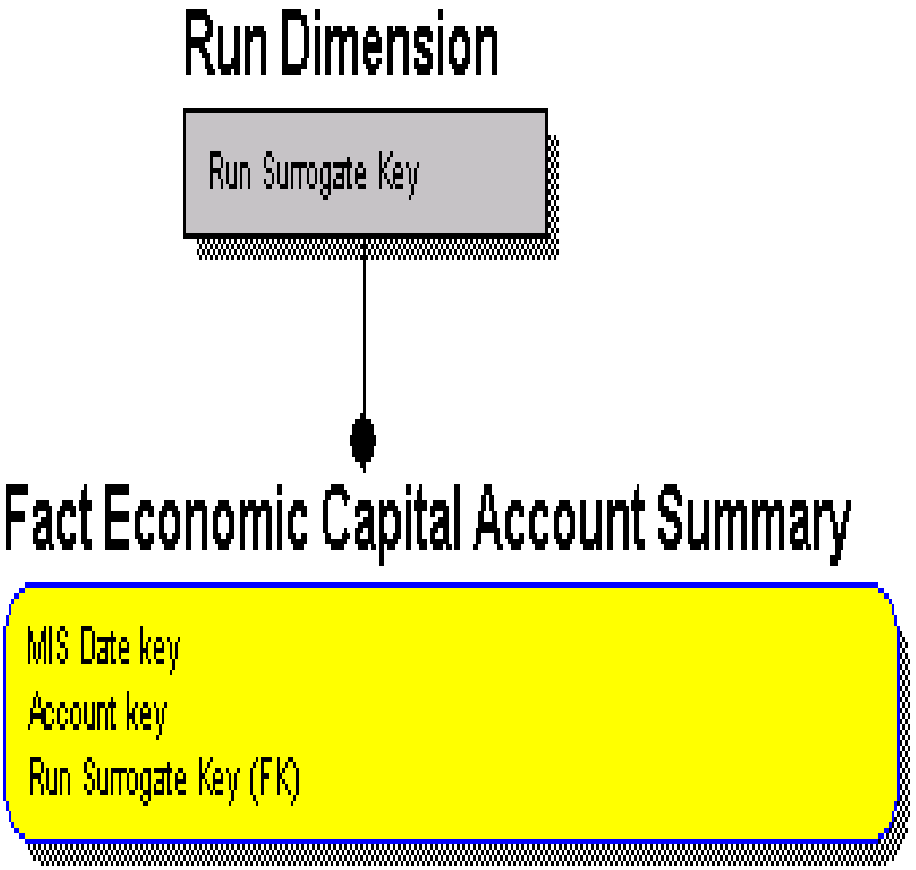
- Sales Compensation



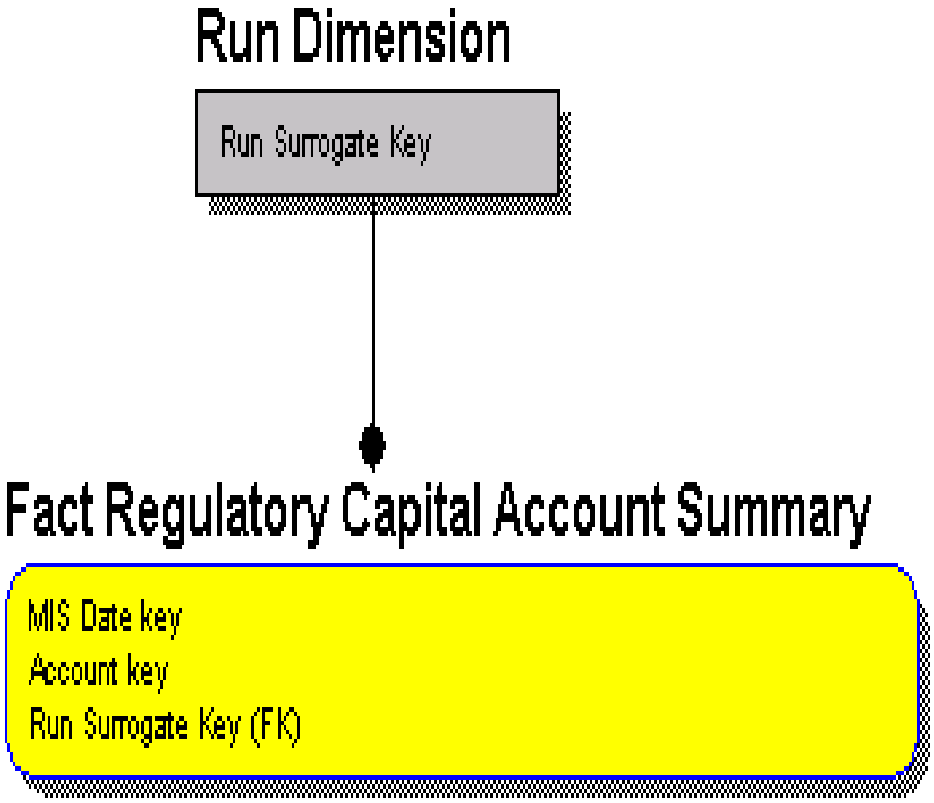
- Common Customer Summary



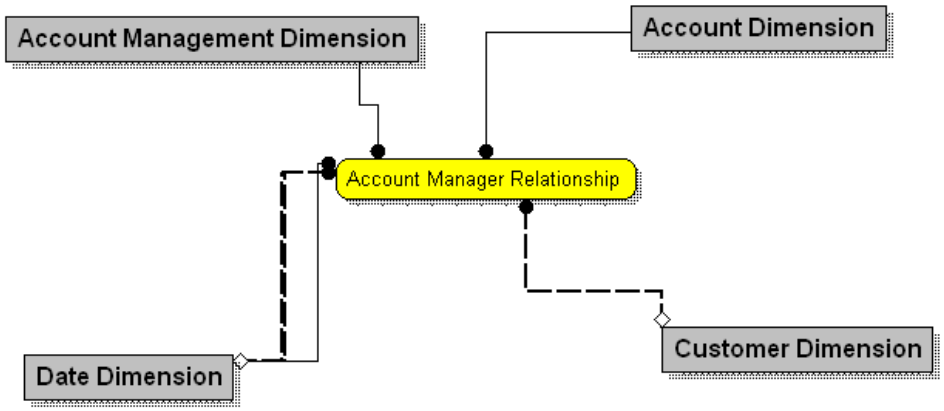
- Eco Capital Account Summary



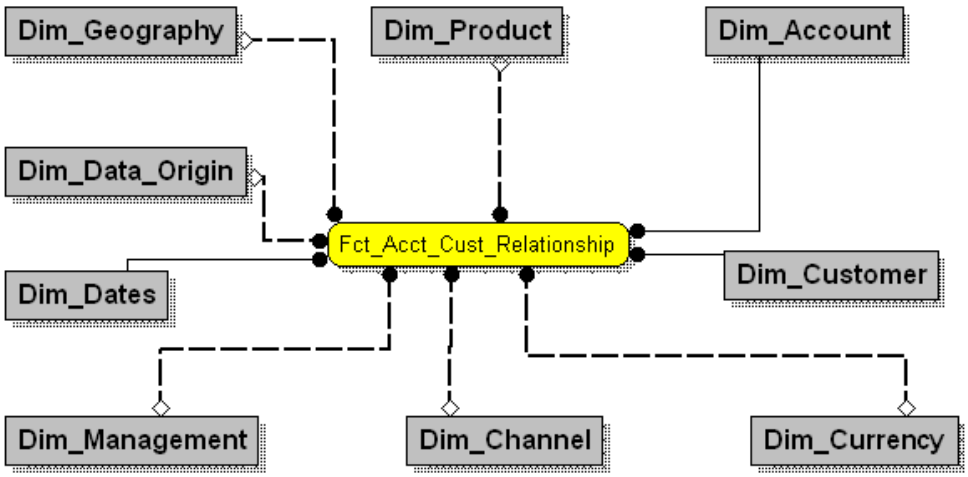
- Reg Cap Account Summary



- Account Manager Relationship



- Fact Account Customer Relationship



Data Flow: OFSIPA BI Data Model to Essbase Cubes

Reports of OFSIPA application can be configured to work on Relational database or Hyperion Essbase Multi-dimensional databases, that is cubes. Multi-dimensional databases store aggregated data for better performance and provide mechanisms for performing non-additive rollup within a hierarchy and defining complex derived measures using cross-dimensional operations. OFSAA Infrastructure is used for defining metadata about the cube and for building the Essbase cubes. Essbase cubes can be built out of reporting fact entities to improve performance.

OFSIPA application has the following seeded cube metadata:

Cube Code	Cube Name	Fact Entities in dataset
ADCRM001	Institutional Analysis	Fact Common Account Summary
		Fact CRM Account Summary
		Fact Common Customer Summary
		Fact CRM Customer Summary
		Fact FTP Account Summary
		Fact PFT Account Summary
Adiparm2	RM L and P	DIM_MANAGEMENT
		DIM_RUN
		DIM_LOB
		DIM_PRODUCT
		DIM_ORG_UNIT
		DIM_DATES
		DIM_REP_LINE
		WTHREPMV
		USRMGRMV

3

Dimension Loading Process

Dimension Tables Population

OFSIPA solution use the SCD component to handle dimensional data changes.

Overview of SCD Process

SCDs are dimensions that have data that changes slowly, rather than changing on a time-based, regular schedule.

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-best practices-datawarehouse-whi-129686.pdf

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

  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/owb10 gr2_gs/owb/lesson3/slowlychangingdimensions.htm
- http://www.oraclebidwh.com/2008/11/slowly-changing-dimension-scd/
- http://www.informationweek.com/news/software/bi/showArticle.jhtml?articleID=2 04800027&pgno=1
- http://www.informationweek.com/news/software/bi/showArticle.jhtml?articleID=5 9301280

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 SCD component of the platform is delivered via a C++ executable. The types of SCD handled by the OFSAAI SCD component for OFSPA solution are Type 1 and Type 2.

Prerequisites

1. The SCD executable should be present under <installation home>ficdb/bin. The file name is **scd.**
2. The user executing the SCD component should have execute rights on the file mentioned as prerequisite in point 2.
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 could 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 will populate one row per dimension for the seeded dimensions in this table.

Column Name	Data Type	Column Description
MAP_REF_NUM	NUMBER(3) NOT NULL	The Mapping Reference Number for this unique mapping of a Source to a Dimension Table.
TBL_NM	VARCHAR2(30) NOT NULL	Dimension Table Name

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

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

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	

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) NOT NULL	The Mapping Reference Number for this unique mapping of a Source to a Dimension Table.
COL_NM	VARCHAR2(30) NOT NULL	Name of the column in the Dimension Table.
COL_TYP	VARCHAR2(30) NOT NULL	Type of column. The possible values are given in the following section.
STG_COL_NM	VARCHAR2(60) NULL	Name of the column in the Staging Table.
SCD_TYP_ID	NUMBER(3) NULL	SCD type for the column.
PRTY_LOOKUP_REQD_FLG	CHAR(1) NULL	Column to determine whether Lookup is required for Priority of Source against the Source Key Column or not.

Column Name	Data Type	Column Description
COL_DATATYPE	VARCHAR2(15) NULL	The list of possible values are VARCHAR, DATE, NUMBER based on the underlying column datatype.
COL_FORMAT	VARCHAR2(15) NULL	

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

1. PK – Primary Dimension Value (may be multiple for a given "Mapping Reference Number")
2. SK – Surrogate Key
3. DA – Dimensional Attribute (may 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	PK
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

```
create sequence SEQ_DIM_<DIM>  minvalue 1
maxvalue 999999999999999999999999999
increment by 1
```

Executing the SCD Component

To execute the SCD component from OFSAAI ICC framework 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 (Refer 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_Institutional_Perf_Dim 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 will have 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 accessing the following path /ftpshare/<infodom name>/logs

The file name will have 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.

4

Time Dimension Population

Business data commonly represents information as of a point in time (for example, a balance as of a point in time) or as of a particular span of time (for example, income for the month of March). Time dimension makes it possible to report the balances by Year, Quarter or Month using the rollup functionality of cubes. Cubes makes it possible to rollup the monthly balances to a quarter and then to a year level. For example, the monthly data for January, February and March gets rolled up to Quarter 1 and the Quarter 1, 2, 3 and 4 data get rolled up to, say Year 2011. The rollup of a particular balance depending on their nature could be a simple additive rollup wherein the child member balances are added up to arrive at the parent node balance (for example, Ending Balance) or non additive rollups wherein a node formula is used to specify how to rollup the child member balances (for example, 3 month rolling average).

This chapter covers the following topics:

- Overview of Time Dimension Population
- Prerequisites
- Tables used by the Time Dimension Population Transformation
- Executing the Time Dimension Population Transformation
- Checking the Execution Status

Overview of Time Dimension Population

Time dimension population transformation is used to populate the DIM_DATES table with values between two dates specified by the user as a batch parameter.

The database components, used by the transformations are:

1. Database function FN_DIM_DATES
2. Database procedure PROC_DIM_DATES_POPULATION, that is called by the database function FN_DIM_DATES.

Prerequisites

1. All the post install steps mentioned in the *Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Installation and Configuration guide* and the solution installation manual of *Oracle Financial Services Institutional Performance Analytics* have to be completed successfully.

2. Application User must be mapped to a role that has seeded batch execution function (BATPRO).

3. Before executing a batch check if the following services are running on the application server (For more information on how to check if the services are up and on and how to start the services if you find them not running, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*).

    1. Iccserver

    2. Router

    3. AM Server

    4. Messageserver

4. Batches will have to be created for executing the function. For more details see, Executing the Time dimension population transformation, page 4-2.

Tables used by the Time Dimension Population Transformation

- DIM_DATES - This table stores the date details to be used for building the cubes.

For more details on viewing the structure of this table, refer to *Oracle Financial Services Analytical Applications Data Model Data Dictionary* or the *Erwin Data Model.*

Executing the Time Dimension Population Transformation

To execute the function from OFSAAI Information Command Center (ICC) frame work, create a batch by performing 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*.

1. From the **Home** menu, select **Operations**, then select **Batch Maintenance**.

2. Click **New Batch** ('+' symbol in Batch Name container) and enter the Batch Name and description.

3. Click **Save**.

4. Select the Batch you have created in the earlier step by clicking on the checkbox in the Batch Name container.

5. Click **New Task** ('+' symbol in Task Details container).

6. Enter the Task ID and Description.

7. Select **Transform Data**, from the components list.

8. Select the following from the Dynamic Parameters List and then click **Save**:

   - Datastore Type - Select appropriate datastore from the list
   - Datastore Name - Select appropriate name from the list
   - IP address - Select the IP address from the list
   - Rule Name - Select **Dim_Dates_Population** from the list of all available transformations. (This is a seeded Data Transformation which is installed as part of the OFSIPA solution installer. If you don't see this in the list, contact Oracle support)
   - Parameter List – Start Date, End Date (Refer the following for details on Parameter list)

     Explanation for the parameter list is:

     - Start Date – This is the date starting from which the Transformation will populate Dim_Dates table. Date should be specified in the format 'YYYYMMDD'.
     - End Date - This is the date up to which the Transformation will populate Dim_Dates table. Date should be specified in the format 'YYYYMMDD'.

       Sample parameter for this task is '20081131','20091231'.

9. You can execute the batch in two ways:

   1. 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>_aCRM_CommonTasks - Task2 is provided so that the user can just modify the

parameters and execute the batch.

2. The function can also be executed directly on the database through SQLPLUS. Details are:

   Function Name: FN_DIM_DATES

   Parameters: P_BATCH_RUN_ID, P_AS_OF_DATE, P_ST_DT, and P_ED_DT

   Sample parameter values: 'Batch1', '20091231', '20081131', and '20091231'

Checking the Execution Status

The status of execution can be monitored using the batch monitor screen.

> **Note:** For a more comprehensive coverage of configuration & execution of a batch, 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 Event Log window in Batch Monitor provides logs for execution with the top row being the most recent. If there is any error during execution, it will get listed here. Even if you see Successful as the status in Batch Monitor it is advisable to go through the Event Log and re-check if there are any errors. The execution log can be accessed on the application server by going to the following directory $FIC_DB_HOME/log/date. The file name will have the batch execution id.

The database level operations log can be accessed by querying the FSI_MESSAGE_LOG table. The batch run id column can be filtered for identifying the relevant log.

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

5

Account Dimension Population

Populating Accounts Dimension

Account Number is an alphanumeric unique identifier within each staging instrument tables. Hence, there is a need to generate a numeric surrogate key for each of the account number. This information is stored in DIM_ACCOUNT table.

Function **fn_popDimAccount** is a function to populate numeric surrogate key for each account number. The function performs the following:

- In case, surrogate key generation is required, then it uses a sequence to populate DIM_ACCOUNT table.
- In case, surrogate key generation is not required, then it expects that the account number to be numeric and populates DIM_ACCOUNT with that information.

Table Details - FSI_DIM_ACCOUNT_SETUP_DETAILS

Account dimension population makes use of setup table FSI_DIM_ACCOUNT_SETUP_DETAILS.

It would have seeded entries from the application installation. This stores the account number column of the staging product processor tables

Column Name	Data Type	Column Description
TABLE_NAME	VARCHAR2(30)	This is the name of the Staging Product Processor Table.

Column Name	Data Type	Column Description
ACCOUNT_NUMBER_ COLUMN_NAME	VARCHAR2(30)	This is the Account Number Column Name of the staging Product Processor table .
LEG_TYPE_FLAG	CHAR(1)	In case, if the Pay Leg & Receive Leg instruments have both same data type then value will be 2.
SQL_TEXT	VARCHAR2(4000)	

Here is a Sample Data:

TABLE_NAME	STG_CASA	STG_TD_CONTRACTS	STG_FUTURES
ACCOUNT_NUMBER_COLUMN_NAME	V_ACCOUNT_NUMBER	V_CONTRACT_CODE	V_CONTRACT_CODE
LEG_TYPE_FLAG			2
SQL_TEXT			

Executing the Account Dimension Population

To execute the account dimension population, create a batch by performing the following steps:

1. From the **Home** menu, select **Operations**, then select **Batch Maintenance**.
2. Click **New Batch** ('+' symbol in Batch Name container) and enter the Batch Name and description.
3. Click **Save**.
4. Select the Batch you have created in the earlier step by clicking on the check box in the Batch Name container.
5. Click **New Task** ('+' symbol in Task Details container).
6. Enter the Task ID and Description.

7. Select **Transform Data**, from the components list.

8. Select the following from the Dynamic Parameters List and then click **Save**:

   - Datastore Type - Select appropriate datastore from the list.
   - Datastore Name - Select appropriate name from the list. Generally, it is the infodom name.
   - IP address - Select the IP address from the list
   - Rule Name - **fn_popDimAccount**
   - Parameter List:
     - Surrogate Key Required Flag – Y or N

       Batch run ID and As of Date are passed internally by the ICC to the Data Transformation task.

9. Execute the batch.

Execute the batch from Batch Execution by choosing the batch created following the steps mentioned in the preceding sections for a required date.

> **Note:** A seeded batch <INFODOM>_aCRM_CommonTasks – Task3 is provided so that the user can just modify the parameters and execute the batch.

Checking the Execution Status

The status of execution can be monitored using the batch monitor screen.

> **Note:** For a more comprehensive coverage of configuration & execution of a batch, 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 Event Log window in Batch Monitor provides logs for execution with the top row being the most recent. If there is any error during execution, it will get listed here. Even

if you see Successful as the status in Batch Monitor it is advisable to go through the Event Log and re-check if there are any errors. The execution log can be accessed on the application server by going to the directory $FIC_DB_HOME/log/date. The file name will have the batch execution id.

The database level operations log can be accessed by querying the FSI_MESSAGE_LOG table. The batch run id column can be filtered for identifying the relevant log.

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

6

Exchange Rate History Population

Introduction

Exchange Rate History entity stores the exchange rates between the currencies for an effective date from one or multiple sources.

Exchange Rate History population should be executed before any fact table is populated to ensure exchange rates between currencies are available prior. Exchange Rate History entity is loaded by means of Table to Table Transformation process.

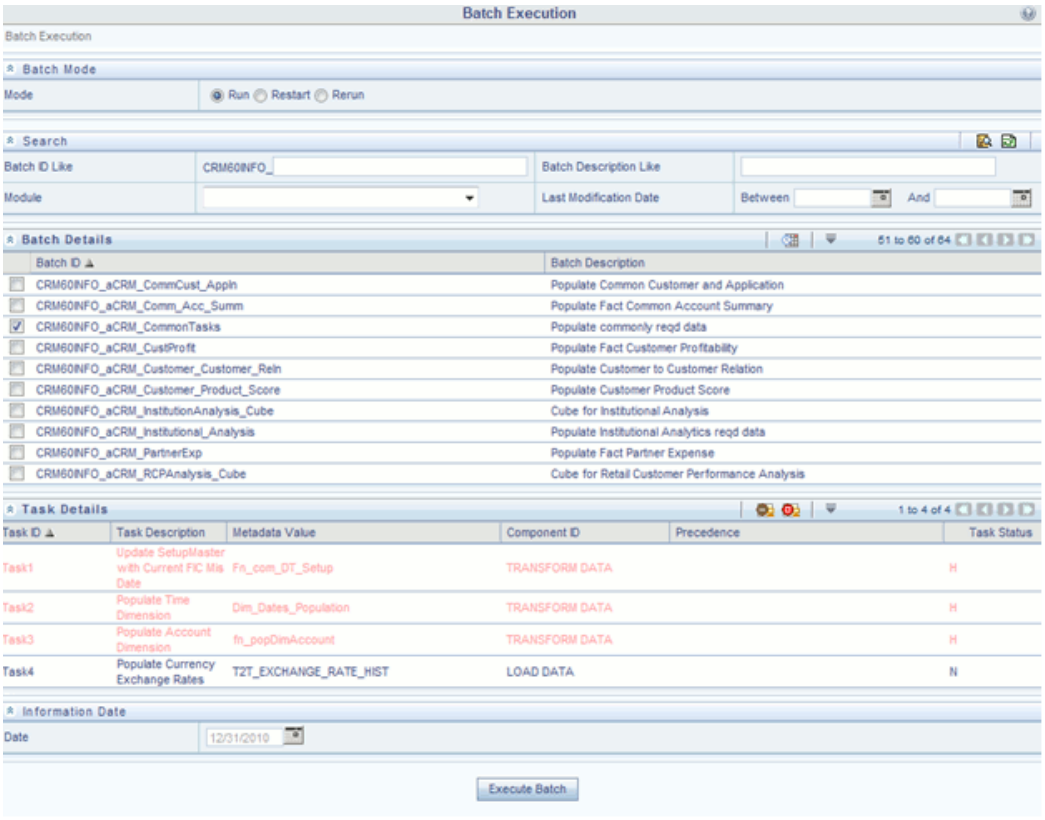
Following is the seeded Table-to-Table definition that loads data into Exchange Rate History:

T2T Definition Name	Source Table(s)	Destination Table
T2T_EXCHANGE_RATE_HIST	STG_EXCHANGE_RATE_HIST	FSI_EXCHANGE_RATE_HIST

Exchange Rate History Population

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<INFODOM>_aCRM_CommonTasks - Task4** has to be executed for the required date.



Alternatively, following steps will help to create a new batch task for Loading Historical Exchange Rates:

1. From the **Home** menu, select **Operations**, then 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 and then click **Save**.
   - **Datastore Type** - Select appropriate datastore from the list.
   - **Datastore Name** - Select 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 table to table transformation **T2T_EXCHANGE_RATE_HIST**.

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

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

   For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.
10. Check T2T component logs and batch messages to check the status of load.

    T2T component can fail because of following cases:
    - Unique constraint error – Target table may already contain the primary keys that are part of the staging tables.
    - NOT NULL constraint error – do not have values for NOT NULL columns in the target table.

Checking the Execution Status

The status of execution can be monitored using the batch monitor screen.

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 **$FIC_DB_HOME/log/t2t** directory: The file name will have the batch execution id.

Validating the Exchange Rate

The Function Fn_ratevalidation is executed using the task. Edit the "Task1" of the batch

"<INFODOM>_FN_RATEVALIDATION" and pass the below parameters to the task:

- Starting date
- End date

All the exchange rates present in FSI_EXCHANGE_RATE_HIST table whose 'effective date' lies in the range of these values will be validated on execution of this batch. The validated rates will be available in the table FSI_EXCHNG_RATE_DIRECT_ACCESS.

Rate Triangulation is also achieved during this process.

7

Account Summary Population

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.

This chapter covers the following topics:

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

Overview of Account Summary Tables

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 Account Summary table 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 three vertically partitioned Account Summary tables that are organized by application subject area.

- FCT_COMMON_ACCOUNT_SUMMARY – This table is shared by all OFSAA BI applications which contain dimensional values, attributes, and financial measures which are generally applicable to the individual account records. This data is sourced directly from the staging area.
- FCT_CRM_ACCOUNT_SUMMARY – This table has the measures used by all the

Customer Insight applications.

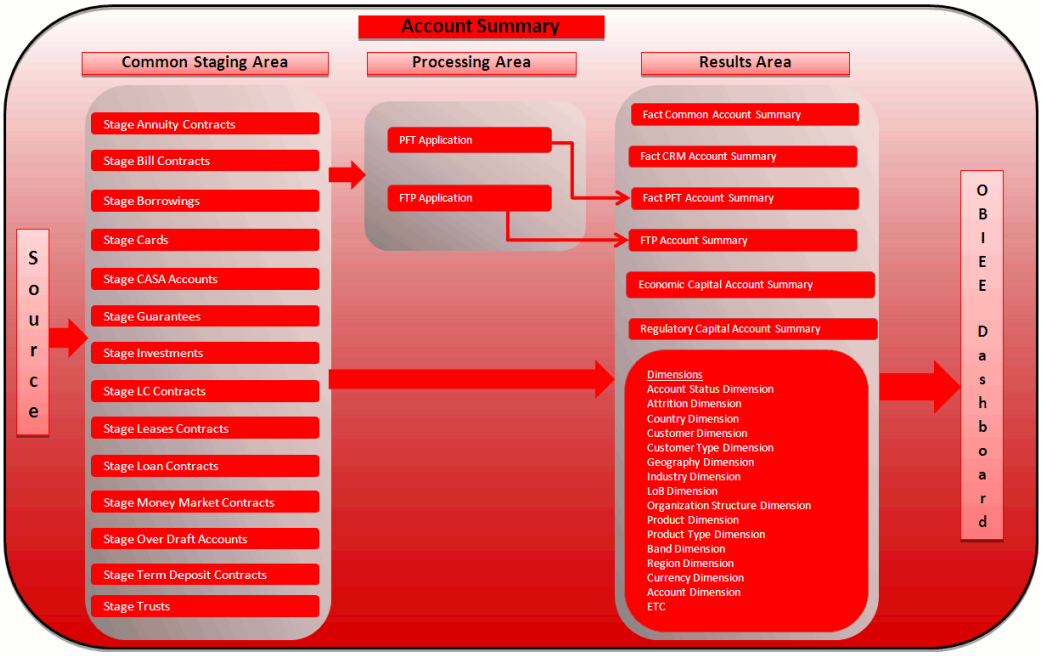
Yet, there are few other Account Summary tables which have been designed to store Enterprise Risk Management (ERM) data:

- FCT_PFT_ACCOUNT_SUMMARY – This table has Profitability Management (PFT) specific measures.
- FCT_FTP_ACCOUNT_SUMMARY – This table has Funds Transfer Pricing (FTP) specific measures.
- FCT_REG_CAP_ACCOUNT_SUMMARY – This table has Regulatory Capital specific measures.
- FCT_ECO_CAPITAL_ACCOUNT_SUMMARY – This table has Economic Capital specific measures.

The above mentioned 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.

Data Flow

The Below diagram depicts the flow of data into account summary tables:



Overview of Account Summary Population

Table to Table seeded definitions are provided for loading data into Common Account Summary and CRM Account summary tables.

Following are the lists for the same:

- Common Account Summary

SL No	Source Table	T2T Definition Name	Destination Table
1	STG_ANNUITY_CONTRACTS	T2T_STG_ANNUITY_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
2	STG_BILLS_CONTRACTS	T2T_STG_BILLS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
3	STG_BORROWINGS	T2T_STG_BORROWINGS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
4	STG_CARDS	T2T_STG_CARDS_CAS	FCT_COMMON_ACCOUNT_SUMMARY

SL No	Source Table	T2T Definition Name	Destination Table
5	STG_CASA	T2T_STG_CASA_CAS	FCT_COMMON_ACCOUNT_SUMMARY
6	STG_GUARANTEES	T2T_STG_GUARANTEES_CAS	FCT_COMMON_ACCOUNT_SUMMARY
7	STG_INVESTMENTS	T2T_STG_INVESTMENTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
8	STG_LC_CONTRACTS	T2T_STG_LC_CAS	FCT_COMMON_ACCOUNT_SUMMARY
9	STG_LEASES_CONTRACTS	T2T_STG_LEASES_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
10	STG_LOAN_CONTRACTS	T2T_STG_LOANS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
11	STG_MM_CONTRACTS	T2T_STG_MM_CAS	FCT_COMMON_ACCOUNT_SUMMARY
12	STG_OD_ACCOUNTS	T2T_STG_OD_CAS	FCT_COMMON_ACCOUNT_SUMMARY
13	STG_TD_CONTRACTS	T2T_STG_TD_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
14	STG_TRUSTS	T2T_STG_TRUSTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
15	STG_COMMITMENT_CONTRACTS	T2T_STG_COMMITMENT_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
16	STG_MUTUAL_FUNDS	T2T_STG_MUTUAL_FUNDS_CAS	FCT_COMMON_ACCOUNT_SUMMARY

- CRM Account Summary

Sl No.	Source Table	T2T Definition Name	Destination Table
1	STG_ANNUITY_CONTRACTS	T2T_STG_CRMAS_ANNUITY_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
2	STG_BILLS_CONTRACTS	T2T_STG_CRMAS_BILLS_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
3	STG_BORROWINGS	T2T_STG_CRMAS_BORROWINGS	FCT_CRM_ACCOUNT_SUMMARY
4	STG_CARDS	T2T_STG_CRMAS_CARDS	FCT_CRM_ACCOUNT_SUMMARY
5	STG_CASA	T2T_STG_CRMAS_CASA	FCT_CRM_ACCOUNT_SUMMARY
6	STG_GUARANTEES	T2T_STG_CRMAS_GUARANTEES	FCT_CRM_ACCOUNT_SUMMARY
7	STG_INVESTMENTS	T2T_STG_CRMAS_INVESTMENTS	FCT_CRM_ACCOUNT_SUMMARY
8	STG_LC_CONTRACTS	T2T_STG_CRMAS_LC_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
9	STG_LEASES_CONTRACTS	T2T_STG_CRMAS_LEASES_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
10	STG_LOAN_CONTRACTS	T2T_STG_CRMAS_LOAN_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
11	STG_MM_CONTRACTS	T2T_STG_CRMAS_MM_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
12	STG_OD_ACCOUNTS	T2T_STG_CRMAS_OD_ACCOUNTS	FCT_CRM_ACCOUNT_SUMMARY
13	STG_TD_CONTRACTS	T2T_STG_CRMAS_TD_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
14	STG_TRUSTS	T2T_STG_CRMAS_TRUSTS	FCT_CRM_ACCOUNT_SUMMARY

Sl No.	Source Table	T2T Definition Name	Destination Table
15	STG_COMMITMENT_CONTRACTS	T2T_STG_CRMAS_COMMITMENTS	FCT_CRM_ACCOUNT_SUMMARY
16	STG_MUTUAL_FUNDS	T2T_STG_CRMAS_MUTUAL_FUNDS	FCT_COMMON_ACCOUNT_SUMMARY

- FTP Account Summary

Sl No	Source Table	T2T Definition Name	Destination Table
1	FSI_D_ANNUITY_CONTRACTS	T2T_FCT_FTP_ACCOUNT_ANNUITY	FCT_FTP_ACCOUNT_SUMMARY
2	FSI_D_BORROWINGS	T2T_FCT_FTP_ACCOUNT_BORROWINGS	FCT_FTP_ACCOUNT_SUMMARY
3	FSI_D_CASA	T2T_FCT_FTP_ACCOUNT_CASA	FCT_FTP_ACCOUNT_SUMMARY
4	FSI_D_CREDIT_LINES	T2T_FCT_FTP_ACCOUNT_CREDIT_LINES	FCT_FTP_ACCOUNT_SUMMARY
5	FSI_D_CREDIT_CARDS	T2T_FCT_FTP_ACCOUNT_CREDITCARDS	FCT_FTP_ACCOUNT_SUMMARY
6	FSI_D_GUARANTEES	T2T_FCT_FTP_ACCOUNT_GUARANTEES	FCT_FTP_ACCOUNT_SUMMARY
7	FSI_D_INVESTMENTS	T2T_FCT_FTP_ACCOUNT_INVESTMENTS	FCT_FTP_ACCOUNT_SUMMARY
8	FSI_D_LEASES	T2T_FCT_FTP_ACCOUNT_LEASES	FCT_FTP_ACCOUNT_SUMMARY

Sl No	Source Table	T2T Definition Name	Destination Table
9	FSI_D_LOAN_CONTRACTS	T2T_FCT_FTP_ACCOUNT_LOANS	FCT_FTP_ACCOUNT_SUMMARY
10	FSI_D_MM_CONTRACTS	T2T_FCT_FTP_ACCOUNT_MM_CONTRACTS	FCT_FTP_ACCOUNT_SUMMARY
11	FSI_D_MORTGAGES	T2T_FCT_FTP_ACCOUNT_MORTGAGES	FCT_FTP_ACCOUNT_SUMMARY
12	FSI_D_TERM_DEPOSITS	T2T_FCT_FTP_ACCOUNT_TDEPOSITS	FCT_FTP_ACCOUNT_SUMMARY
13	FSI_D_TRUSTS	T2T_FCT_FTP_ACCOUNT_TRUSTS	FCT_FTP_ACCOUNT_SUMMARY
14	FSI_D_MUTUAL_FUNDS	T2T_FCT_FTP_ACCOUNT_MUTUAL_FUND	FCT_FTP_ACCOUNT_SUMMARY

- PFT Account Summary

Sl No	Source Table	T2T Definition Name	Destination Table
1	FSI_D_ANNUITY_CONTRACTS	T2T_FCT_PFT_ACCOUNT_ANNUITY	FCT_PFT_ACCOUNT_SUMMARY
2	FSI_D_BORROWINGS	T2T_FCT_PFT_ACCOUNT_BORROWINGS	FCT_PFT_ACCOUNT_SUMMARY

Sl No	Source Table	T2T Definition Name	Destination Table
3	FSI_D_CASA	T2T_FCT_PFT_ACCOUNT_CASA	FCT_PFT_ACCOUNT_SUMMARY
4	FSI_D_CREDIT_LINES	T2T_FCT_PFT_ACCOUNT_CREDIT_LINES	FCT_PFT_ACCOUNT_SUMMARY
5	FSI_D_CREDIT_CARDS	T2T_FCT_PFT_ACCOUNT_CREDITCARDS	FCT_PFT_ACCOUNT_SUMMARY
6	FSI_D_GUARANTEES	T2T_FCT_PFT_ACCOUNT_GUARANTEES	FCT_PFT_ACCOUNT_SUMMARY
7	FSI_D_INVESTMENTS	T2T_FCT_PFT_ACCOUNT_INVESTMENTS	FCT_PFT_ACCOUNT_SUMMARY
8	FSI_D_LEASES	T2T_FCT_PFT_ACCOUNT_LEASES	FCT_PFT_ACCOUNT_SUMMARY
9	FSI_D_LOAN_CONTRACTS	T2T_FCT_PFT_ACCOUNT_LOANS	FCT_PFT_ACCOUNT_SUMMARY
11	FSI_D_MORTGAGES	T2T_FCT_PFT_ACCOUNT_MORTGAGES	FCT_PFT_ACCOUNT_SUMMARY
12	FSI_D_TERM_DEPOSITS	T2T_FCT_PFT_ACCOUNT_DEPOSITS	FCT_PFT_ACCOUNT_SUMMARY

Sl No	Source Table	T2T Definition Name	Destination Table
13	FSI_D_TRUSTS	T2T_FCT_PFT_ACCOUNT_TRUSTS	FCT_PFT_ACCOUNT_SUMMARY
14	FSI_D_MUTUAL_FUNDS	T2T_FCT_PFT_ACCOUNT_MUTUAL_FUND	FCT_PFT_ACCOUNT_SUMMARY

Note: Currency Exchange Rate History table has to be populated prior loading the Account Summary tables.

Prerequisites

1. All the post install steps mentioned in the *Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Installation and Configuration guide* and the solution installation manual have to be completed successfully.
2. Application User must be mapped to a role that has seeded batch execution function (BATPRO).
3. Before executing a batch, check if the following services are running on the application server (For more information on how to check if the services are up and on, and how to start the services if you find them not running, see *Oracle Financial Services Analytical Applications Infrastructure User Guide.*)
    1. Iccserver
    2. Router
    3. AM Server
    4. Messageserver
4. Batches will have to be created for executing. This is explained in Executing the Account Summary Population T2T section.
5. Dimension Population should have been done before you execute the T2T batch. (For more information, refer to Dimension Loading Process, page 3-1 and Time

Dimension Population, page 4-1 chapters.)

Fact Common Account Summary

Following are the lists of tables used in the population of Fact Common Account Summary & Fact CRM Account Summary tables.

Below mentioned Dimension tables are required to be loaded prior to executing the T2T:

- DIM_DATES
- DIM_ACCOUNT
- DIM_CUSTOMER
- DIM_PRODUCT
- DIM_CHANNEL
- DIM_BANDS
- DIM_ORG_STRUCTURE and so on.

Fact CRM Account Summary

Fact Common Account Summary entity needs to be populated before executing the Fact CRM Account Summary T2Ts.

Following are the list of tables used in the population of Fact CRM Account Summary and these tables are required to be loaded prior to running the T2T:

- DIM_DATES
- DIM_ACCOUNT
- FCT_COMMON_ACCOUNT_SUMMARY
- DIM_ACCT_STATUS
- DIM_BANDS
- DIM_CHANNEL
- DIM_CUSTOMER
- DIM_ORG_STRUCTURE

- DIM_LOB
- DIM_OFFER
- DIM_OPPORTUNITY
- DIM_PRODUCT
- DIM_PROSPECT
- DIM_RETENTION_OFFER_TYPE
- DIM_SALES_REPRESENTATIVE
- DIM_TREATMENT
- DIM_VINTAGE

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

For more information on the dimensions, refer to *ERwin Datamodel*.

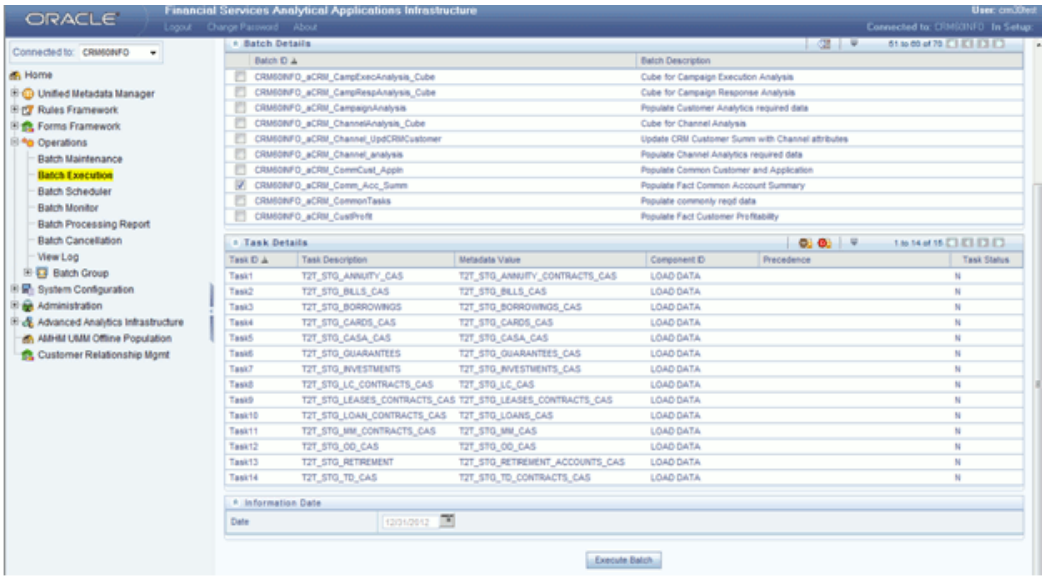
Executing the Account Summary Population T2T

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).

Fact Common Account Summary

A seeded batch, **<Infodom>_aCRM_Comm_Acc_Summ** 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 and 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.
   - **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. 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.

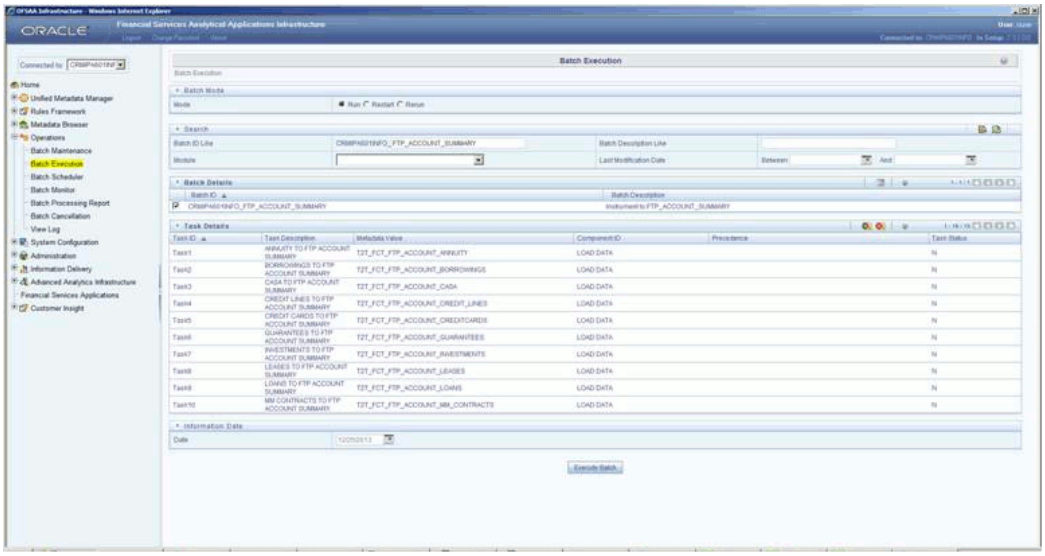
10. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Fact FTP Account Summary

A seeded batch, **<INFODOM>_FTP_Account_Summary** 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 and 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.
   - **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. 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.

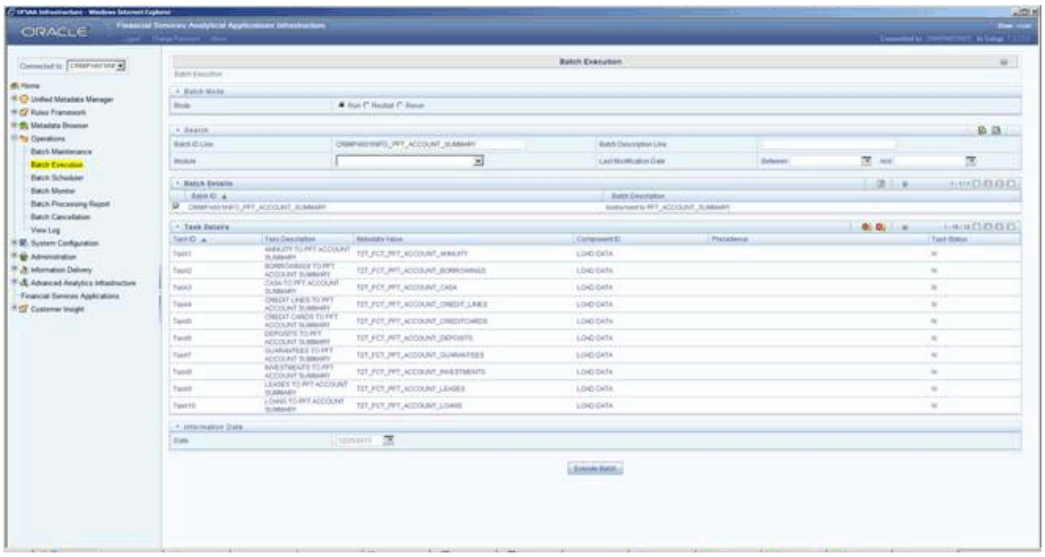
10. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Fact PFT Account Summary

A seeded batch, <INFOCOM>_PFT_ACCOUNT_SUMMARY 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. Create a new task, enter the **Task ID** and **Description**.
6. Select **Load Data** from the Components list.
7. Select the following from the Dynamic Parameters List and 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.
    - **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. Data file name will be blank for any Table to Table Load mode. Default value field will be blank for CRM account summary T2Ts.

9. Repeat steps 4 to 8 for adding the remaining T2Ts within the same batch definition.

10. Create a Task by repeating steps 4 and 5.

11. Select **Transform Data** from components list.

12. Select the following from the Dynamic Parameters List and 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.
    - **Rule Name** - Select **fn_run_exe_param** from the list.
    - **Parameter List** - Pass the values 1, 180, '$RUNSK=0', 'USD'.

    It is mandatory to pass all the five parameters. Currently, the first three does not have functional significance. The last two parameters are "Run Skey" and "Reporting Currency" values, that needs to be passed as required. If the batch is being re-run, make sure the run skey value passed is higher than the values (if any) found in "FCT_CRM_ACCOUNT_SUMMARY". If the "run_exe_parameters" table already have an entry for the desired Run Skey, delete the row from the "run_exe_parameters" table before executing the batch.

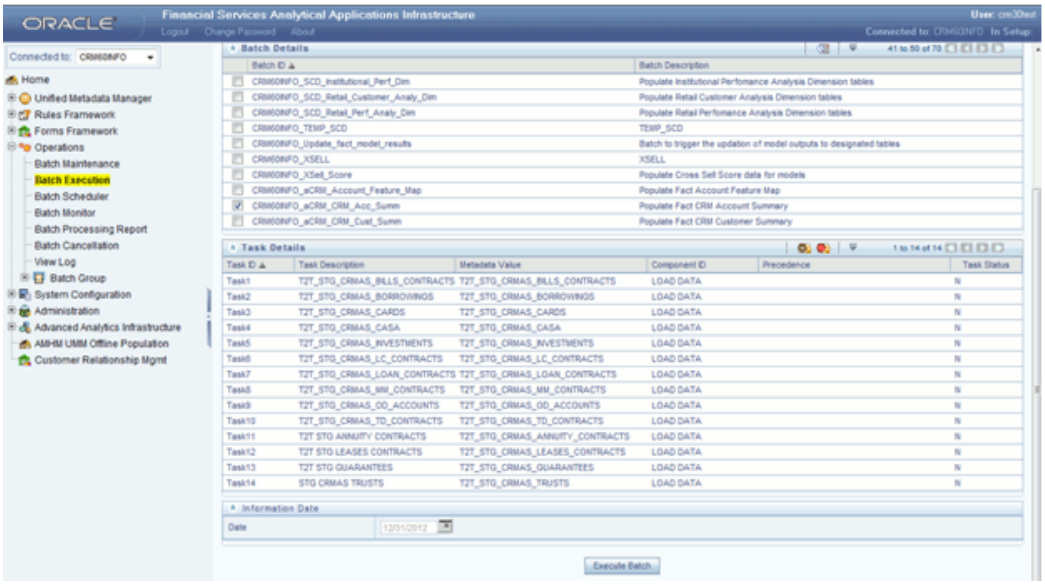
13. To set this task as a precedent task to each of the other tasks in this batch, click the **Precedence** button in the **Task Details** pane.

14. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Fact CRM Account Summary

A seeded batch, **<Infodom>_aCRM_CRM_Acc_Summ** 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. Create a new task, enter the **Task ID** and **Description**.
6. Select **Load Data** from the Components list.
7. Select the following from the Dynamic Parameters List and 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.
   - **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 product processor table you want to process.

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

   Default value field will be blank for CRM account summary T2Ts.

9. Repeat steps 4 to 8 for adding the remaining T2Ts within the same batch definition.

10. Create a Task by repeating the steps 4 and 5.

11. Select **Transform Data** from components list.

12. Select the following from the Dynamic Parameters List and 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.
    - **Rule Name** - Select **fn_run_exe_param** from the list.
    - **Parameter List** - Pass the values 1, 180, '$RUNSK = 0', 'USD.

    It is mandatory to pass all the five parameters. Currently, the first three does not have functional significance. The last two parameters are "Run Skey" and "Reporting Currency" values, that needs to be passed as required. If the batch is being re-run, please make sure the run skey value passed is higher than the values (if any) found in "FCT_CRM_ACCOUNT_SUMMARY".

13. To set this task as a precedent task to each of the other tasks in this batch, click the **Precedence** button in the **Task Details** pane.

14. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

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, 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 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 following tables can be queried for errors:

- FCT_COMMON_ACCOUNT_SUMMARY$
- FCT_CRM_ACCOUNT_SUMMARY$

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.

8

Customer Summary Population

This chapter explains the process flow for populating Fact Common Customer Summary table.

This chapter covers the following topics:

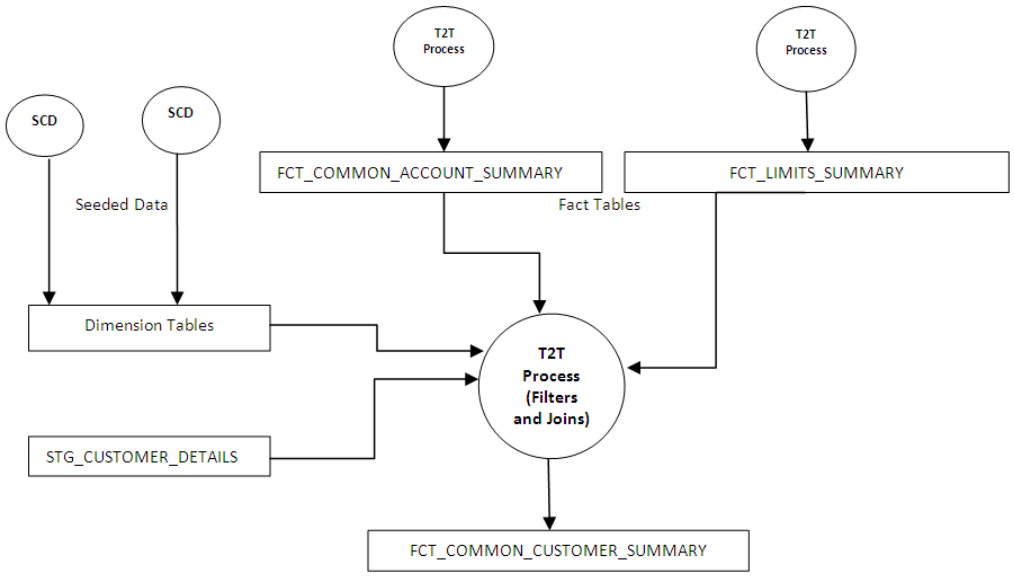
- Overview of Common Customer Summary Tables
- Prerequisites
- Executing the Customer Summary Population T2T

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.

Following data flow diagram explains the process flow for populating Fact Common Customer Summary table:



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 such as FCT_COMMON_ACCOUNT_SUMMARY and FCT_LIMITS_SUMMARY are loaded from their respective T2T processes.

For more information on SCDs, refer to Dimension Loading Process, page 3-1 chapter.

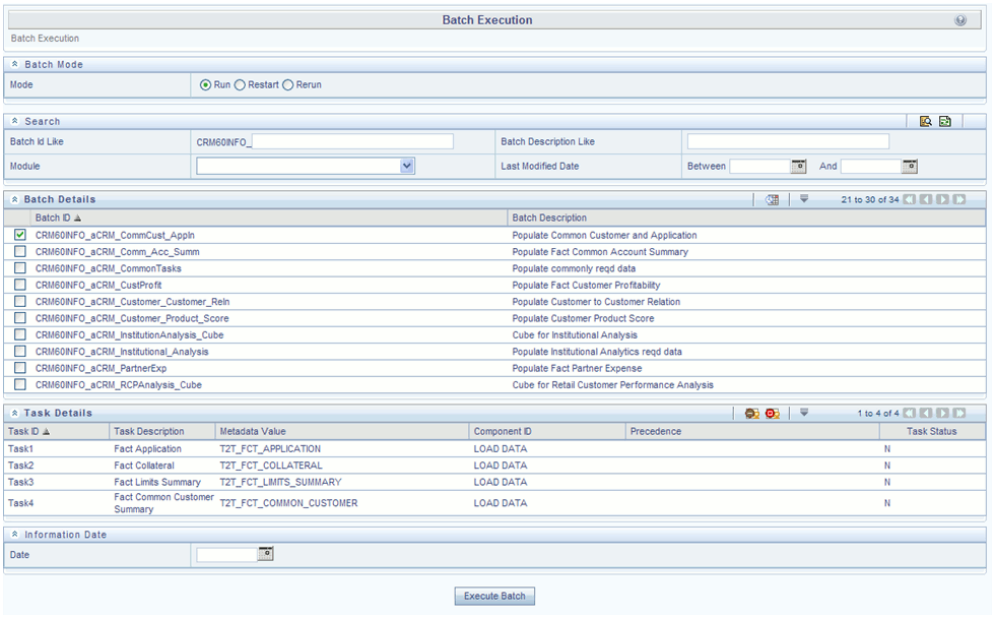
Executing the Customer Summary Population T2T

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

<INFODOM>_aCRM_CommCust_Appln.

Following steps will help you to execute the batch:

1. Go to the Batch Execution screen.
2. Select the seeded batch <INFODOM>_aCRM_CommCust_Appln 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 using Batch Monitor.



Error Messages

Following is 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.

9

Fact Data Population

Introduction

This chapter explains all the fact tables which within describe about the seeded T2T Definitions with related Source Table and Destination tables. Prerequisites needed in population of the Fact table and tables required to be loaded prior to running the T2T.

Each fact table contains a section on how to execute the T2T component from OFSAA Infrastructure ICC framework and access the execution log to check the execution status.

Fact CRM Customer Summary

Fact CRM Customer Summary entity captures different derived/computed customer attributes pertaining to Customer Insight. Fact Common Customer Summary stores the generic application-agnostic source/raw customer attributes. Fact CRM Customer Summary is a vertical partitioned entity and has relationship to Fact Common Customer Summary.

Load Data into Fact CRM Customer Summary

Customer balances in the Fact CRM Customer Summary entity are derived from account summary. Customer relationship entity drives the relationship between accounts and customers.

Following is the seeded Table-to-Table definitions that loads data related to Fact CRM Customer Summary:

T2T Definition Name	Source Table(s)	Destination Table
T2T_FCT_CRM_CUSTOMER_	STG_CUSTOMER_MASTER	FCT_CRM_CUSTOMER_S

T2T Definition Name	Source Table(s)	Destination Table
SUMMARY	STG_CUSTOMER_DETAILS	UMMARY
	FCT_COMMON_ACCOUNT_ SUMMARY	
	FCT_CRM_ACCOUNT_SUM MARY	

Refer to *Oracle Financial Services Analytical Applications Data Model Data Dictionary* or the *Erwin Data Model* to view the detailed structure of the tables.

Prerequisites

Fact Common Customer Summary entity needs to be populated before executing the Fact CRM Customer Summary T2T. Refer to Fact Common Account Summary, page 7-11 chapter for details related to Fact Common Customer Summary T2T.

Following tables that are used in the population of Fact CRM Customer Summary need to have relevant data prior to executing the T2T:

- STG_CUSTOMER_MASTER - Mandatory
- STG_CUSTOMER_DETAILS - Mandatory
- DIM_DATES - Mandatory
- DIM_CUSTOMER - Mandatory
- FCT_COMMON_ACCOUNT_SUMMARY - Mandatory
- FCT_CRM_ACCOUNT_SUMMARY - Mandatory
- DIM_BANDS - Optional

  For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

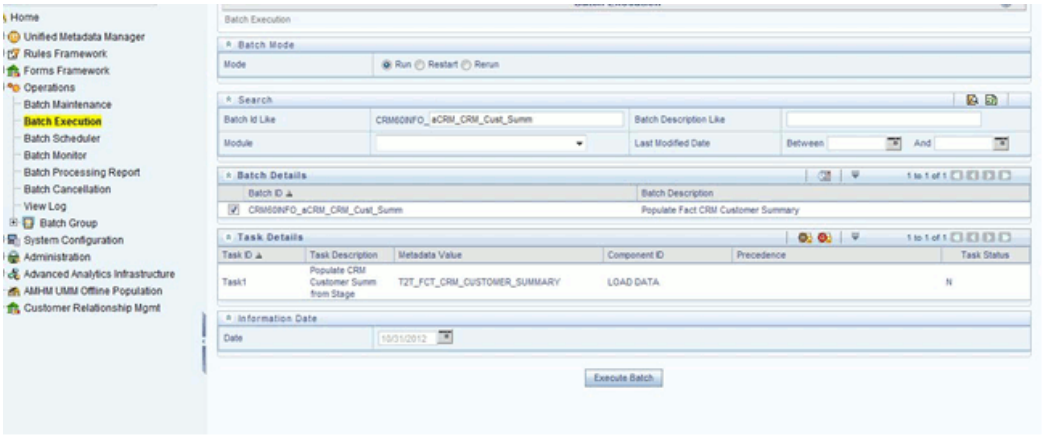
  For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

  For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

  Also, see Population of Fact CRM Customer Summary and Fact CRM Account Summary sections for details on populating these fact tables.

Executing the Fact CRM Customer Summary Population T2Ts

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the Operations module of OFSAAI). A seeded batch, **<Infodom>_aCRM_CRM_Cust_Summ** 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 and 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.
   - **Load Mode** - Select Table to Table from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.

- **File Name** - Select the T2T name "T2T_FCT_CRM_CUSTOMER_SUMMARY" you want to process.

8. Data file name will be blank for any Table to Table Load mode.
9. Default value refers to any parameter that has to be passed to T2T. It has to be blank.
10. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_CRM_CUSTOMER_SUMMARY

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

Fact Partner Expense

Fact Partner Expense entity stores expense items like marketing cost, total project expense, business development expense, incentive, and so on that are incurred with the partner of financial institutions. These expenses are captured in the Stage Partner Expense entity for every partner and applicable time period.

Following table lists the seeded T2T Definitions with related Source Table and

Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_FCT_PARTNER_EXPENSE	STG_PARTNER_EXPENSE	FCT_PARTNER_EXPENSE

For more information, see Customer Insight Erwin Data Model to view the detailed structure of the tables.

Prerequisites

Following are the lists of tables used in the population of Fact Partner Expense and these are required to be loaded prior to executing the T2T:

- DIM_DATES
- DIM_PARTNER
- STG_PARTNER_EXPENSE

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

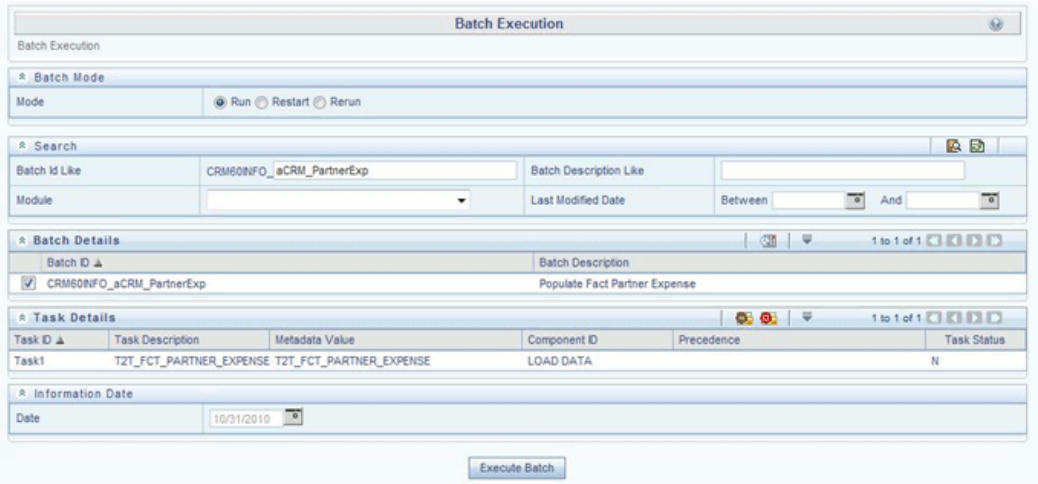
For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Partner Expense Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<Infodom>_aCRM_PartnerExp** 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 and 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.
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name "T2T_FCT_PARTNER_EXPENSE" you want to process.
8. 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. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_PARTNER_EXPENSE$

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

Fact Account Feature Map

A product might be facilitated with its own features. Fact Account Feature Map entity stores the mapping between the Account and Product Feature that is the features of the product availed by the customer account. Product processor tables in staging have information related to customer accounts.

Following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_FCT_ACCOUNT_FEATURE_MAP	STG_ACCT_FEATURE_MAP	FCT_ACCOUNT_FEATURE_MAP

For more information, see Customer Insight Erwin Data Model to view the detailed structure of the tables.

Prerequisites

Following are the lists of tables used in the population of Fact Account Feature Map and these tables are required to be loaded prior to executing the T2T:

- DIM_DATES
- DIM_PRODUCT_FEATURE
- DIM_ACCOUNT
- DIM_CUSTOMER
- DIM_PRODUCT
- DIM_VENDOR
- DIM_CHANNEL
- STG_ACCT_FEATURE_MAP

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

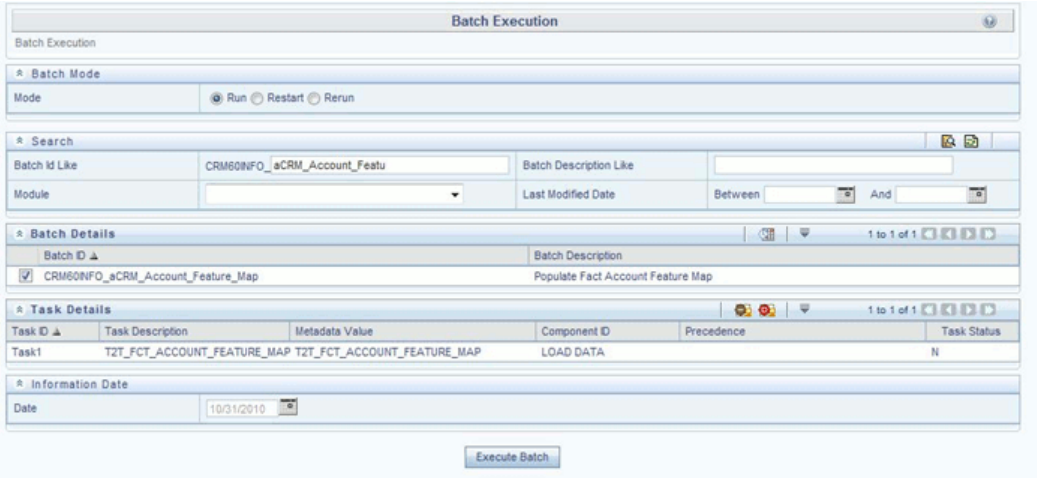
For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Account Feature Map Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<Infodom>_aCRM_Account_Feature_Map** 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 and 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.
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name "T2T_FCT_ACCOUNT_FEATURE_MAP" you want to process.
8. Data file name will be blank for any Table to Table Load mode.

   Default value refers to any parameter that has to be passed to T2T. This should be

blank.

9. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_ACCOUNT_FEATURE_MAP$

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

Fact Customer to Customer Relationship

Fact Customer to Customer Relationship entity stores the relationship between the customers.

Following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_CUST_CUST_RELATION	STG_CUST_CUST_RELATIONSHIP	FCT_CUST_CUST_RELATIONSHIP

For more information, see Customer Insight Erwin Data Model to view the detailed structure of the tables.

Prerequisites

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

- DIM_DATES
- DIM_CUSTOMER
- STG_CUST_CUST_RELATIONSHIP

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

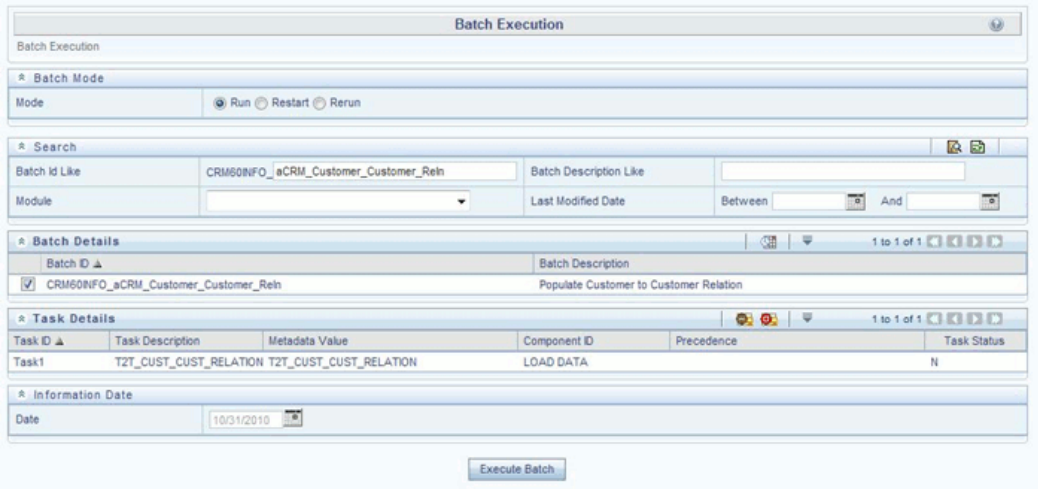
For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Customer to Customer Relationship Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<Infodom>_aCRM_Customer_Customer_Reln - Task1** 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 and 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.
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name "T2T_CUST_CUST_RELATION" you want to process.
8. Data file name will be blank for any Table to Table Load mode.

Default value refers to any parameter that has to be passed to T2T. This should be blank.

9. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_CUST_CUST_RELATIONSHIP$

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

Fact Opportunity

Fact Opportunity entity stores fact data of an opportunity in an opportunity life cycle. It stores information like cost, current stage of opportunity, current status of opportunity, expected revenue, probability of win, and so on.

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_STG_OPPORTUNITY	STG_OPPORTUNITY	FCT_OPPORTUNITY

To view the detailed structure of this table, refer to *Erwin Data Mode*l.

Prerequisites

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

- DIM_DATES
- DIM_OPPORTUNITY
- DIM_PRODUCT
- DIM_GEOGRAPHY
- DIM_PROSPECT
- DIM_CUSTOMER
- DIM_SALES_REPRESENTATIVE
- DIM_OPTY_WL_REASON
- DIM_SALES_STAGE
- DIM_OFFER
- DIM_LOB
- STG_OPPORTUNITY

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

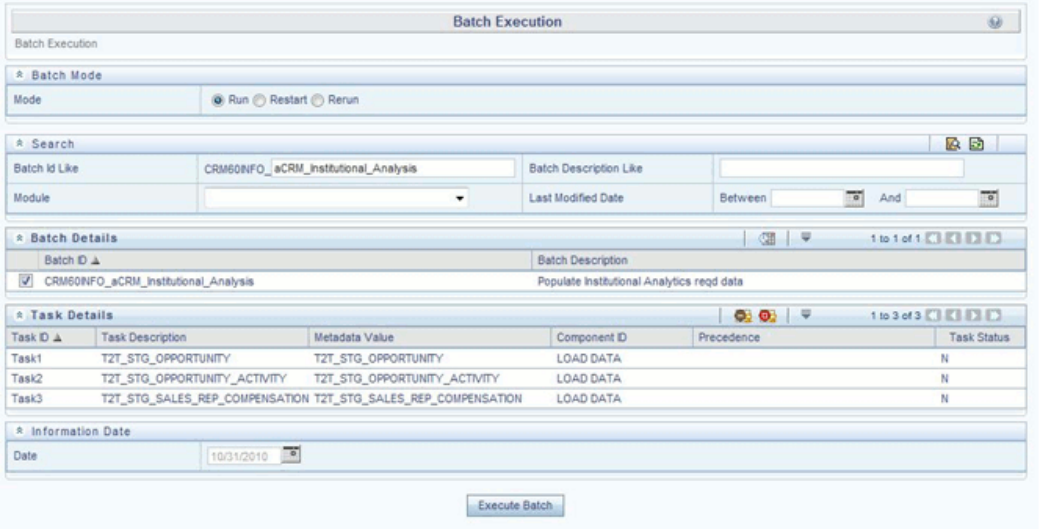
For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Opportunity Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<Infodom>_aCRM_Institutional_Analysis – Task1** 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 and 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.

- **Load Mode** - Select **Table to Table** from the list.
- **Source Name** - Select **<T2T Source Name>** from the list.
- **File Name** - Select the T2T name "T2T_STG_OPPORTUNITY" you want to process.

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

   Default value refers to any parameter that has to be passed to T2T. 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. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_OPPORTUNITY$

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

Fact Opportunity Activity

Fact Opportunity Activity entity stores the fact data related to activities that are performed for each opportunity. It stores information like start & end dates, priority & severity of activity, cost of activity, and so on.

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_STG_OPPORTUNITY_ACTIVITY	STG_OPPORTUNITY_ACTIVITY	FCT_OPPORTUNITY_ACTIVITY

To view the detailed structure of this table, refer to *Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Opportunity Activity and these tables are required to be loaded prior to running the T2T.

- DIM_DATES
- DIM_OPPORTUNITY
- DIM_ACTIVITY_TYPE
- DIM_PRODUCT
- DIM_SALES_REPRESENTATIVE
- DIM_SALES_STAGE
- STG_OPPORTUNITY_ACTIVITY

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

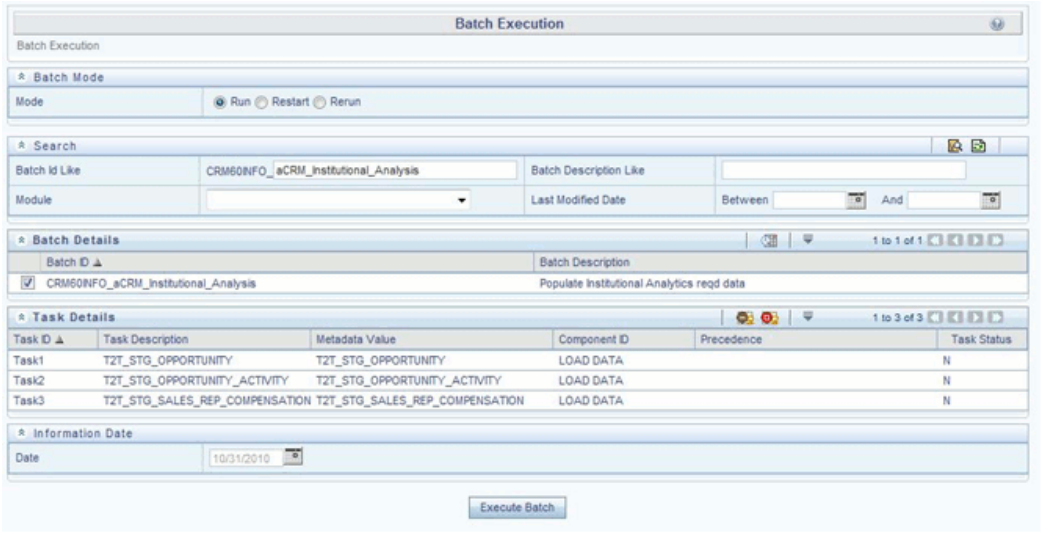
For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Opportunity Activity Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<Infodom>_aCRM_Institutional_Analysis – Task2** 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 and 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.

- **Load Mode** - Select **Table to Table** from the list.
- **Source Name** - Select **<T2T Source Name>** from the list.
- **File Name** - Select the T2T name 'T2T_STG_OPPORTUNITY_ACTIVITY' you want to process.

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

   Default value refers to any parameter that has to be passed to T2T. 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. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_OPPORTUNITY_ACTIVITY$

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

Fact Sales Representative Compensation

Fact Sales Representative Compensation entity stores the sales incentive compensation paid for a sales representative against a product. The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_STG_SALES_REP_COMPENSATION	STG_SALES_REP_COMPENSATION	FCT_SALES_REP_COMPENSATION

For more information, see Customer Insight Erwin Data Model to view the detailed structure of the earlier tables.

Prerequisites

Following are the lists of tables used in the population of Fact Sales Representative Compensation and these tables are required to be loaded prior to running the T2T.

- DIM_DATES
- DIM_PRODUCT
- DIM_SALES_REPRESENTATIVE
- STG_SALES_REP_COMPENSATION

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

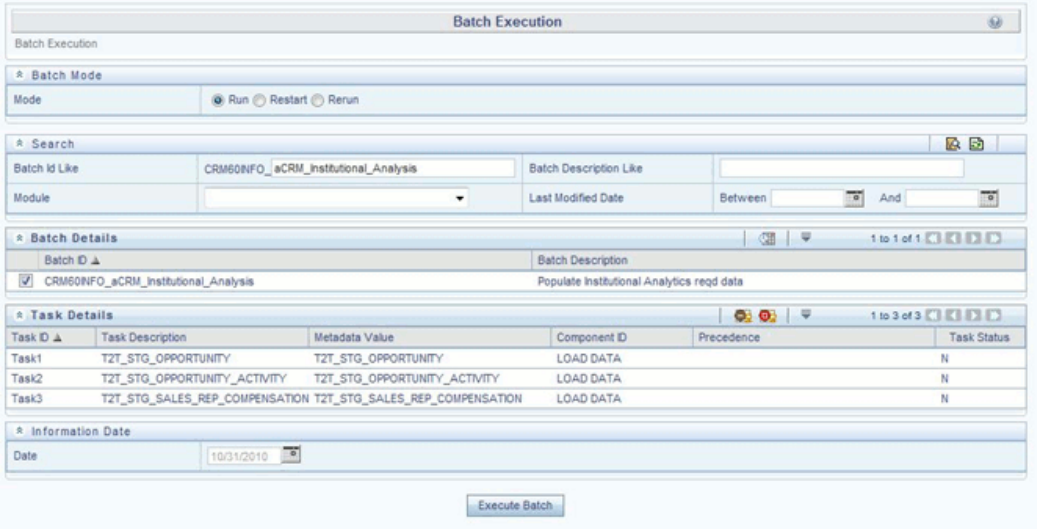
For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Sales Representative Compensation Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through the application Batch Operations screen).

A seeded batch, **<Infodom>_aCRM_Institutional_Analysis – Task3** 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 and 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.
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name 'T2T_STG_SALES_REP_COMPENSATION', you want to process.
8. Data file name will be blank for any Table to Table Load mode.

Default value refers to any parameter that has to be passed to T2T. 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. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_SALES_REP_COMPENSATION$

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

Fact Application

Fact Application entity stores the fact data of applications like application details, current stage, status, rejection reason, time-taken in each stage, and so on.

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_FCT_APPLICATION	STG_APPLICATION	FCT_APPLICATION

For more information and to view the detailed structure of the earlier tables, see *Customer Insight Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Application. These tables are required to be loaded prior to running the T2T:

- DIM_DATES
- DIM_APPLICATION_TYPE
- DIM_PRODUCT
- DIM_CREDIT_OFFICER
- DIM_CUSTOMER
- DIM_CHANNEL
- DIM_CREDIT_CENTER
- DIM_DECISION_STATUS
- DIM_GEOGRAPHY
- DIM_INDUSTRY
- DIM_APPLICATION_REJECT_REASONS
- DIM_DEVIATION_REASONS
- DIM_SALES_REPRESENTATIVE
- DIM_ACCOUNT
- DIM_PROSPECT
- DIM_BANDS
- STG_APPLICATION

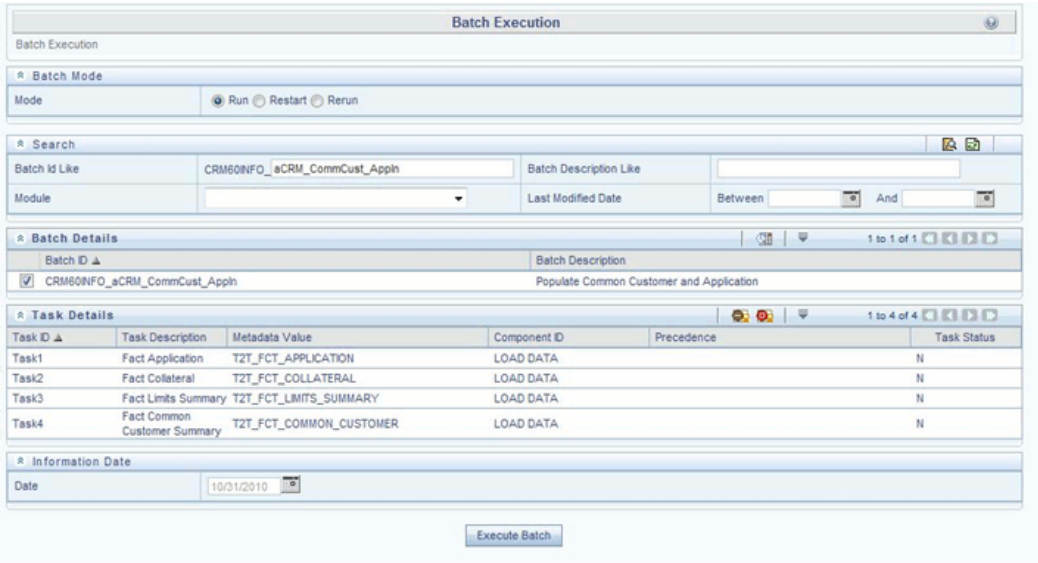
For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to Dimension Tables Population, page 3-1 section under *Dimension Loading Process* chapter.

For details on populating DIM_DATES dimension table, refer to Time Dimension Population, page 4-1 chapter.

For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification.*

Executing the Fact Application Population T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through *Operations* module), a seeded batch, **<Infodom>_aCRM_CommCust_Appln – Task1** 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 and 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.
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name 'T2T_FCT_APPLICATION', you want to process.
8. Data file name will be blank for any Table to Table Load mode.

   Default value refers to any parameter that has to be passed to T2T. 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. Execute the batch created in the preceding steps.

For more information, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

Checking the Execution Status

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

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 following tables can be queried for errors:

- FCT_APPLICATION$

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

Account Manager Relation

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_ACCOUNT_MANAGERS_REL	STG_ACCOUNT_MGR_REL	FCT_ACCOUNT_MGR_REL

Note: For more information and to view the detailed structure of the earlier tables, see Customer Insight Erwin Data Model.

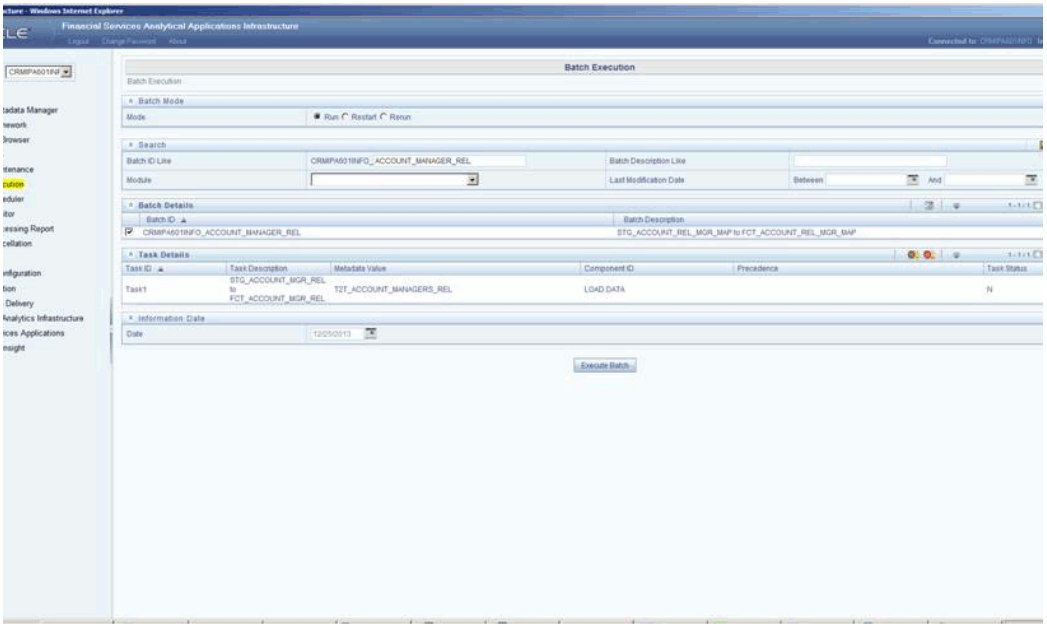
Prerequisites

The following are the lists of tables used in the population of Account Manager Relation. These tables are required to be loaded prior to running the T2T.

- Dim_account
- Dim_customer
- Dim_dates
- Dim_management
- Stg_account_mgr_rel

Executing the Account Manager Relation T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through Operations module), a seeded batch, **<Infodom>_ACCOUNT_MANAGER_REL** 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 and 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.
    - Load Mode - Select **Table to Table** from the list.
    - Source Name - Select **<T2T Source Name>** from the list.
    - File Name - Select the T2T name 'T2T_ACCOUNT_MANAGERS_REL', you

want to process.

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

   Default value refers to any parameter that has to be passed to T2T. 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. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Checking the Execution Status

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

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.

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

Management Forecast

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_MANAGEMENT_FCAST	STG_MGMT_FORECAST	FCT_MGMT_FORECAST

Note: For more information and to view the detailed structure of the earlier tables, see Customer Insight Erwin Data Model.

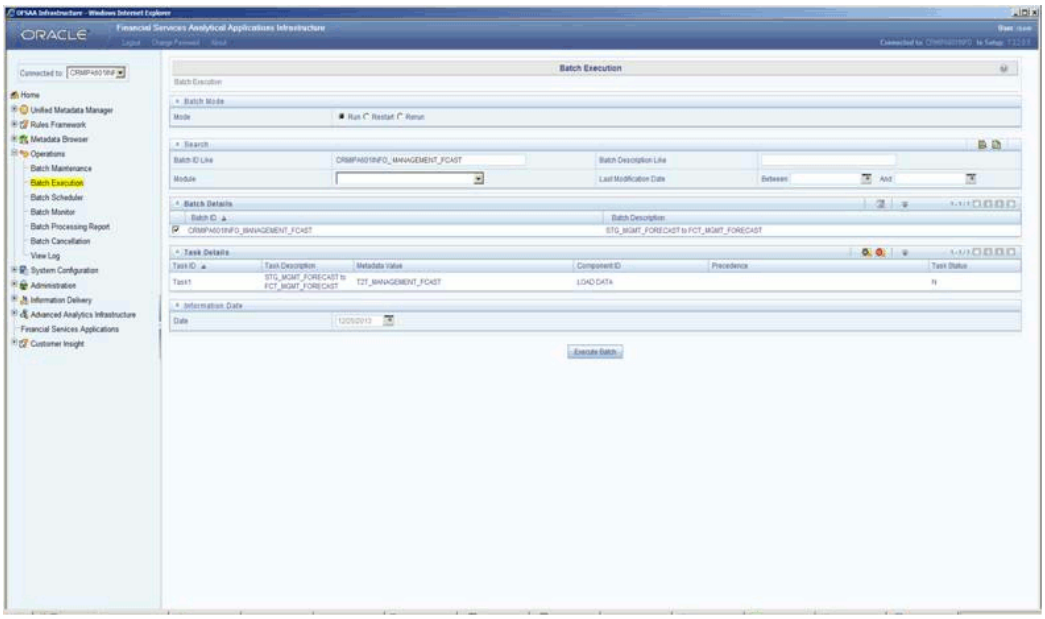
Prerequisites

The following are the lists of tables used in the population of Account Manager Relation. These tables are required to be loaded prior to running the T2T.

- DIM_ORG_STRUCTURE
- DIM_DATES
- DIM_CUSTOMER
- DIM_LOB
- DIM_PRODUCT
- DIM_ORG_UNIT
- DIM_ACCOUNT
- STG_MGMT_FORECAST

Executing the Management Forecast T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through Operations module), a seeded batch, **<Infodom>_MANAGEMENT_FCAST** 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 and click **Save**.
8. Select the following from the Dynamic Parameters List and 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.
    - Load Mode - Select **Table to Table** from the list.
    - Source Name - Select **<T2T Source Name>** from the list.

- File Name - Select the T2T name 'T2T_MANAGEMENT_FCAST', you want to process.

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

   Default value refers to any parameter that has to be passed to T2T. 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.

10. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Checking the Execution Status

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

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.

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

Fact Account Customer Relation

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_ACCT_CUST_RELATIONSHIP	STG_CUSTOMER_RELATIONSHIP	FCT_ACCT_CUST_RELATIONSHIP

Note: For more information and to view the detailed structure of the earlier tables, see Customer Insight Erwin Data Model.

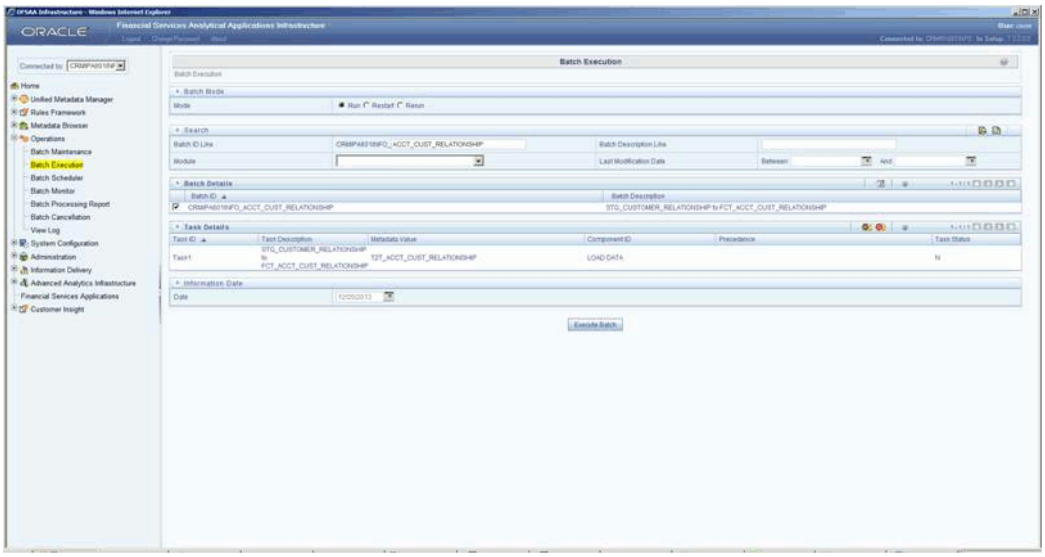
Prerequisites

The following are the lists of tables used in the population of Account Manager Relation. These tables are required to be loaded prior to running the T2T.

- DIM_DATES
- DIM_CUSTOMER
- DIM_ACCOUNT
- DIM_GEOGRAPHY
- DIM_MANAGEMENT
- DIM_CHANNEL
- DIM_PRODUCT
- DIM_DATA_ORIGIN
- STG_CUSTOMER_RELATIONSHIP

Executing the Account Customer Relation T2T

To execute the T2T component from OFSAA Infrastructure ICC framework (accessed through Operations module), a seeded batch, **<INFODOM>_ACCT_CUST_RELATIONSHIP** 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 and 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.
    - Load Mode - Select **Table to Table** from the list.
    - Source Name - Select **<T2T Source Name>** from the list.
    - File Name - Select the T2T name 'T2T_ACCT_CUST_MANAGERS_RELATIONSHIP', you want to process.

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

   Default value refers to any parameter that has to be passed to T2T. 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. Execute the batch created in the preceding steps.

For more information, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Checking the Execution Status

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

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.

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

Fact Account Profitability

Fact Account Profitability entity stores fact data for reporting line items of revenue, costs, and expense related to each customer account. The data into this table is populated from other fact tables like FCT_COMMON_ACCOUNT_SUMMARY, FCT_PFT_ACCOUNT_SUMMARY, FCT_FTP_ACCOUNT_SUMMARY, FCT_REG_CAP_ACCOUNT_SUMMARY, and FCT_ECO_CAP_ACCOUNT_SUMMARY.

The following table lists the seeded Post Load Transformation Definition with related Source Table and Destination tables:

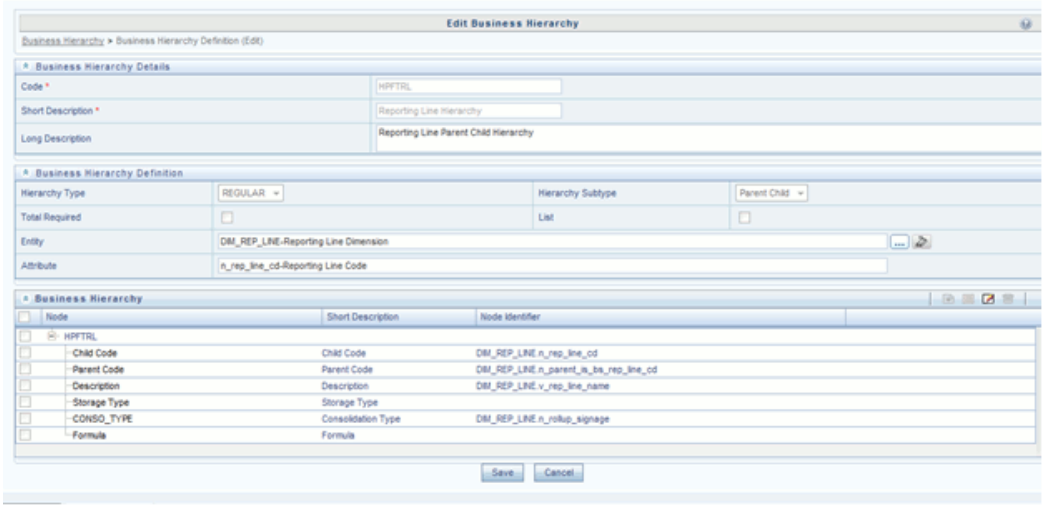
DT Definition Name	Source Tables	Destination Table
PFTBI_Acct_Reporting	FCT_COMMON_ACCOUNT_SUMMARY	FCT_ACCOUNT_PROFITABILITY
	FCT_PFT_ACCOUNT_SUMMARY	
	FCT_FTP_ACCOUNT_SUMMARY	
	FCT_REG_CAP_ACCOUNT_SUMMARY	
	FCT_ECO_CAP_ACCOUNT_SUMMARY	

Refer to *Oracle Financial Services Analytical Applications Data Model Data Dictionary* or the *Erwin Data Model* to view the detailed structure of the tables.

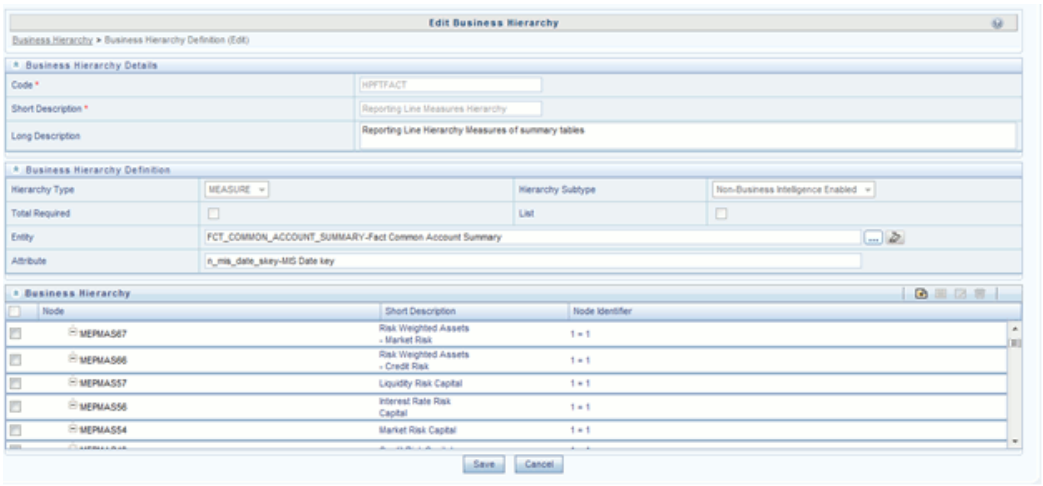
Information from account summary fact tables are populated to Fact Account Profitability through a mapping process. Reporting line dimension is mapped to measures present in account summary. A PL/SQL procedure then populates the fact table by reading the mapping definition.

Reporting line dimension is created/maintained from Attribute Member Hierarchy Maintenance (AMHM) component of OFSAAI. A Reporting line item represents a revenue, costs, or expenses. Rollup signage is set as an attribute for a reporting line item. To know more about AMHM, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

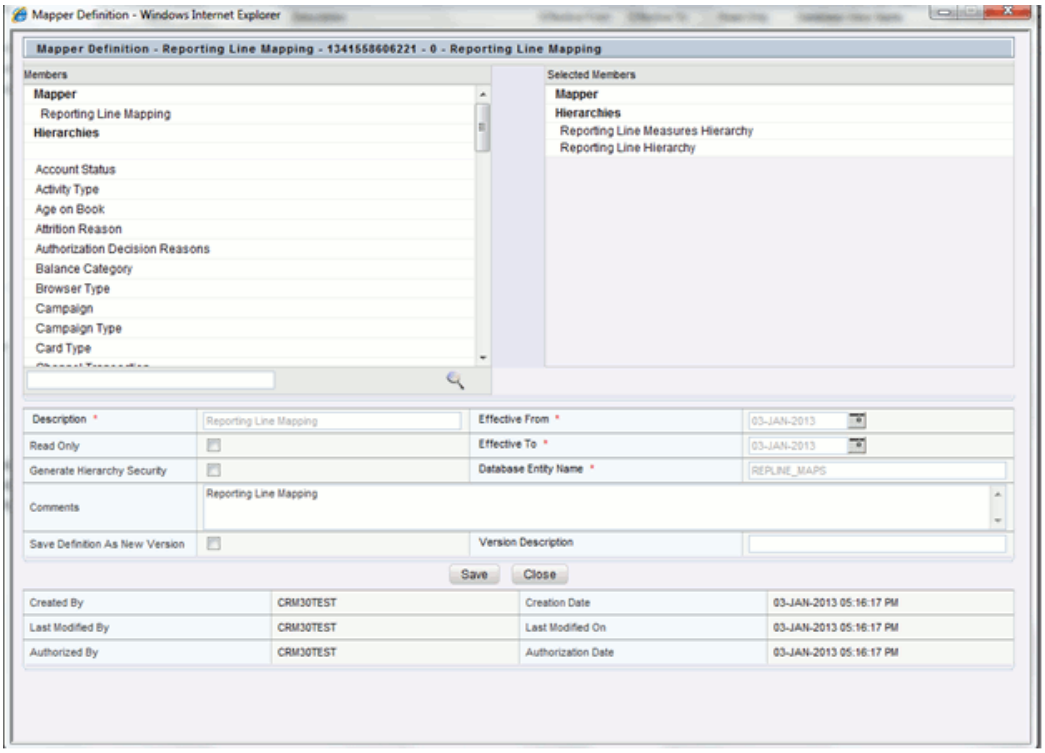
The Account summary tables contain the revenue, costs, or expenses measures pertaining to an Account. Map Maintenance component of OFSAAI is used to map the measures of account summary tables (represented in a measure hierarchy) to reporting line hierarchy. A pre-defined mapping "Reporting Line Mapping" is seeded along with the application installer. Reporting Line Hierarchy and Reporting Line Measure Hierarchy are the two hierarchies which are used for the mapping. Reporting Line Hierarchy is a parent child hierarchy which is based on Reporting Line Dimension entity.

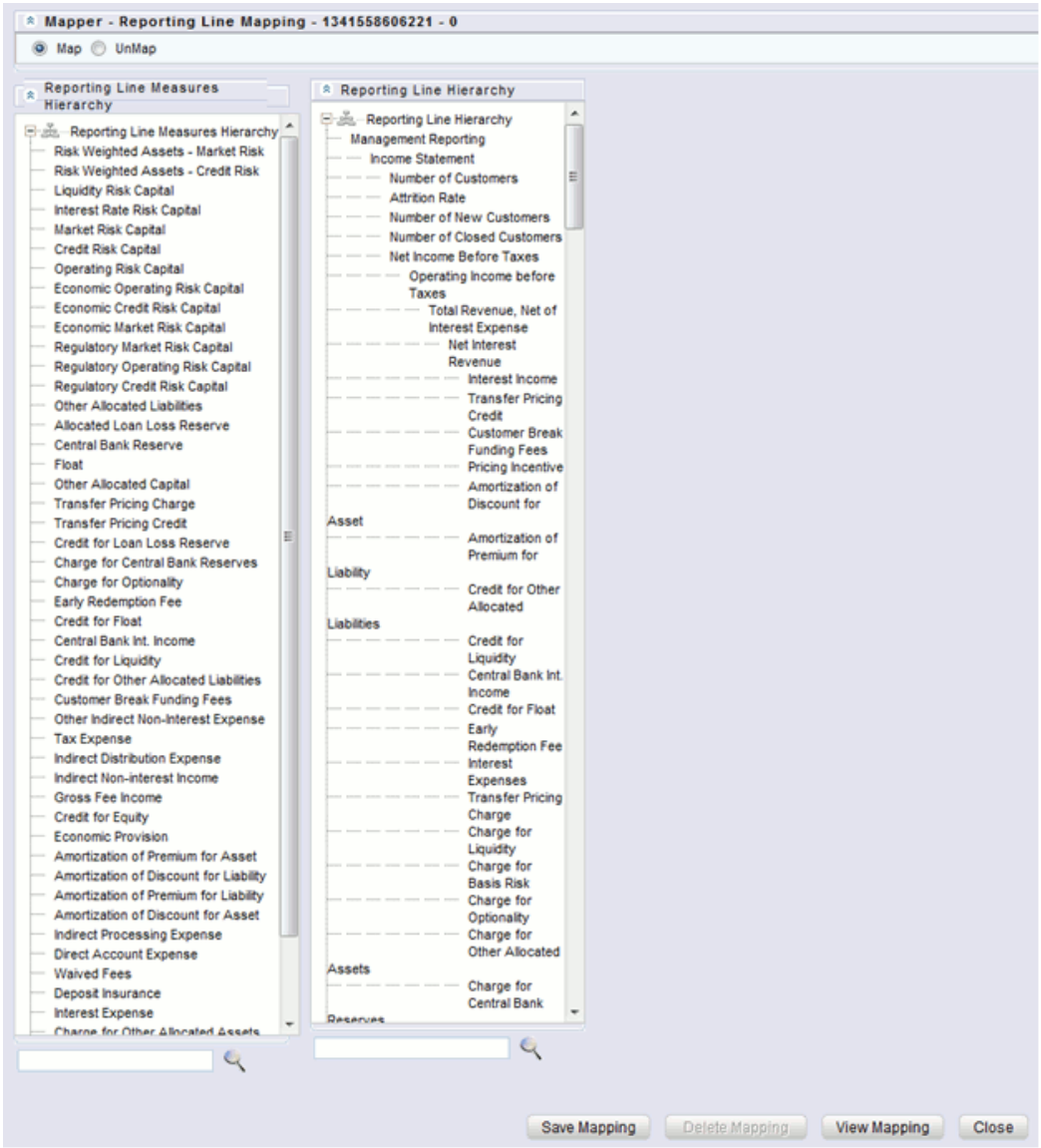


Reporting Line Measure hierarchy is a Non Business Intelligence Enabled Hierarchy which is based on measures from the Account Summary tables.



A seeded map is configured between the Reporting Line Hierarchy and Reporting Line Measure Hierarchy from Map Maintenance of OFSAAI.


Mapper Definition - Windows Internet Explorer
Mapper Definition - Reporting Line Mapping - 1341558606221 - 0 - Reporting Line Mapping
Members
Mapper
Reporting Line Mapping
Hierarchies
Account Status
Activity Type
Age on Book
Attrition Reason
Authorization Decision Reasons
Balance Category
Browser Type
Campaign
Campaign Type
Card Type
Selected Members
Mapper
Hierarchies
Reporting Line Measures Hierarchy
Reporting Line Hierarchy
Description *
Reporting Line Mapping
Effective From *
03-JAN-2013
Read Only
Effective To *
03-JAN-2013
Generate Hierarchy Security
Database Entity Name *
REPLINE_MAPS
Comments
Reporting Line Mapping
Save Definition As New Version
Version Description
Save
Close
Created By
CRM30TEST
Creation Date
03-JAN-2013 05:16:17 PM
Last Modified By
CRM30TEST
Last Modified On
03-JAN-2013 05:16:17 PM
Authorized By
CRM30TEST
Authorization Date
03-JAN-2013 05:16:17 PM



For more information on defining/maintaining Mapper, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Steps to Define Mapping for Custom Reporting Line Items

Follow the below steps to define mapping for Custom Reporting Line items:

- Add Custom Reporting Line or Modify existing Reporting Line.
- Add Custom Reporting Line Hierarchy or modify existing seeded reporting line hierarchy.
- Execute the seeded batch **<INFODOM>_ Repline_Dimension_Update** specifying

the Reporting line hierarchy as parameter to batch.

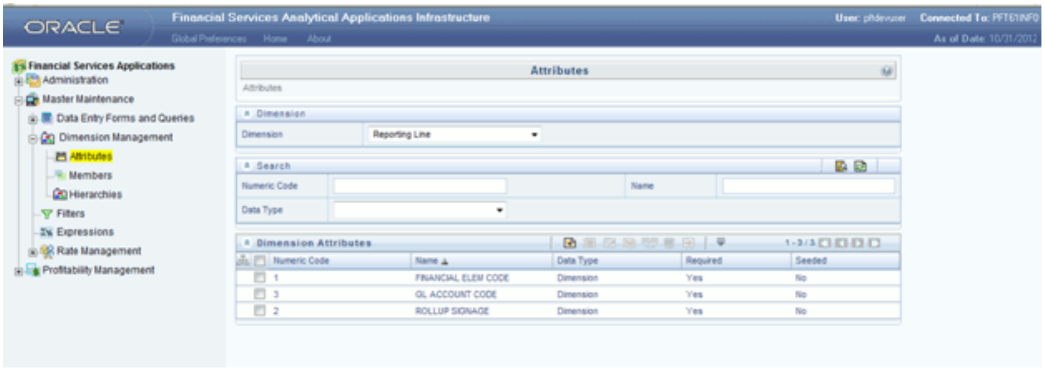
- Modify the seeded Business Metadata.
- Map Maintenance.

Add Custom Reporting Line or Modify existing Reporting Line

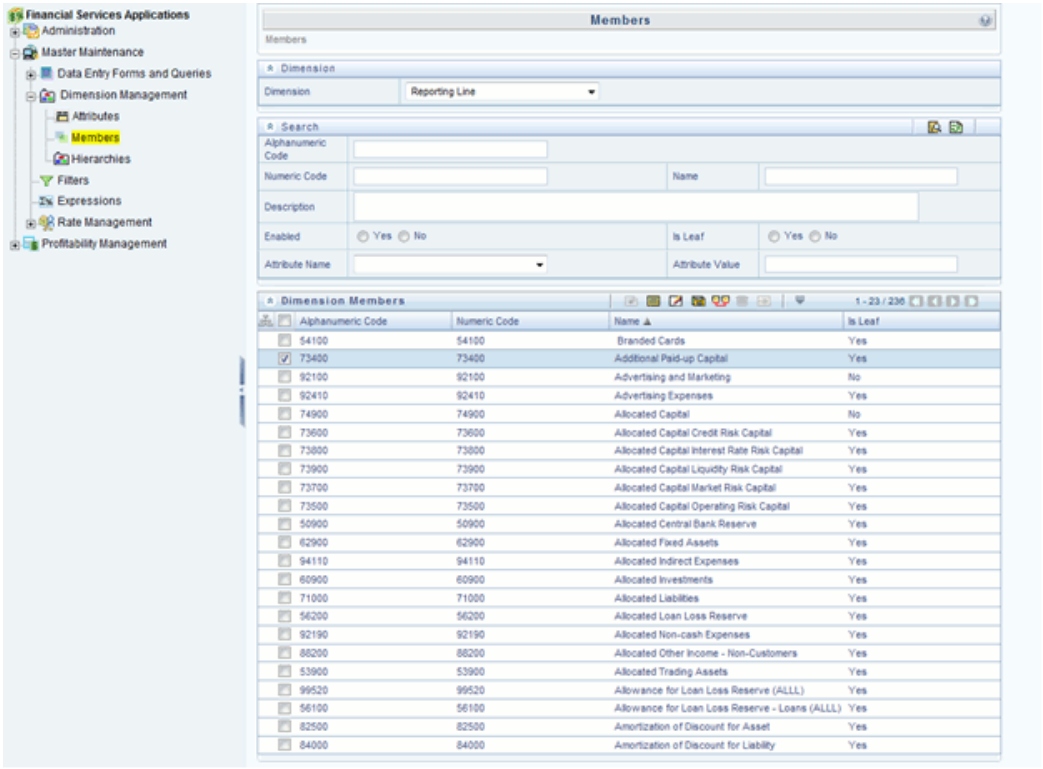
Custom Reporting Lines can be added or modified from AMHM.

Following are the seeded attributes of Reporting Line Dimension:

- Financial Element Code
- GL Account Code
- Rollup Signage



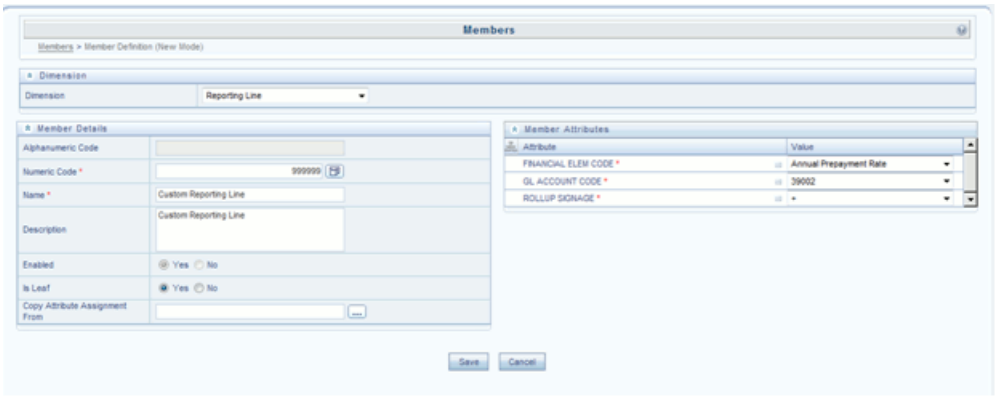
A Reporting line can be added or modified from the *Members* screen as shown below. To modify the existing reporting line, select the member by selecting the adjacent check box and select the **Edit** button on the menu bar.



To add a new reporting line:

1. Select **Add** button from the *Members* screen.

   The *Member Definition (New Mode)* screen is displayed.



2. In the *Member Definition (New Mode)* screen:

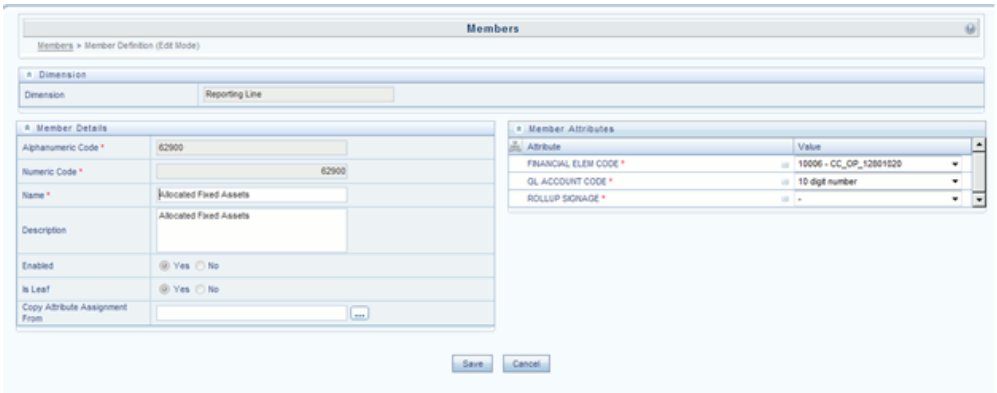
   - Enter **Numeric Code**.
   - Enter the **Name** of the custom reporting line.

- Enter the **Description** of the custom reporting line.
- Select Yes, if the custom reporting line has to be **Enabled** or not.
- Select Yes, if the custom reporting line **Is Leaf** or not.
- Select the Attributes for the reporting line member.
- Save the Member definition.

To modify a reporting line:

1. Click **Edit** button from the *Members* screen.

   The *Member Definition (Edit Mode)*screen is displayed.



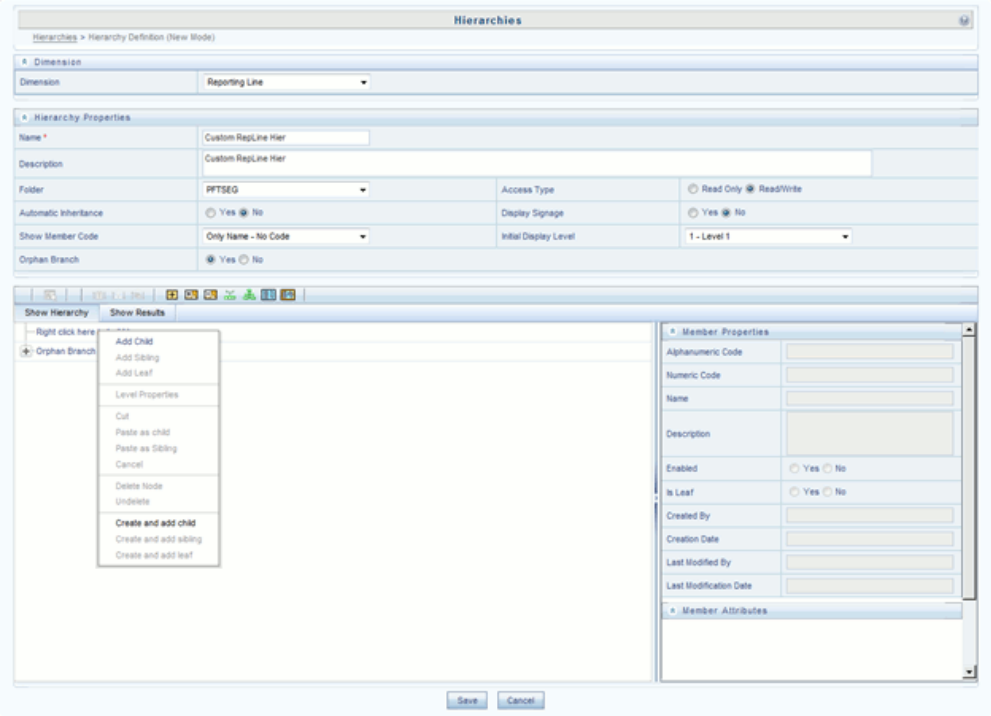
2. In the *Member Definition (Edit Mode)* screen, perform the following as required:
   - Modify the **Name** of the custom reporting line.
   - Modify the **Description** of the custom reporting line.
   - Modify the selection of the radio button in the **Enabled** field.
   - Modify the selection of the radio button in the **Is Leaf** field.
   - Modify the Attributes for the reporting line member.
   - Save the Member definition.

For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*

Add Custom Reporting Line Hierarchy or Modify Existing Seeded Reporting Line Hierarchy

To create a new Reporting Line Hierarchy:

1. Click **Add** button from the menu. The *Hierarchy Definition (New Mode)* screen is displayed.

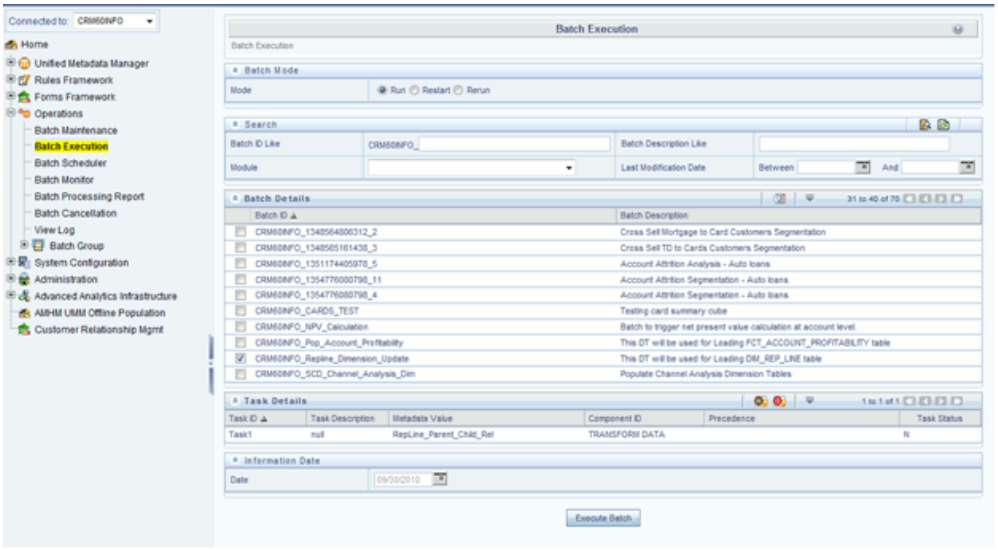


2. Enter the details in the required fields, and click **Save**.

> **Note:** Alternatively, insert scripts and update scripts can be prepared into tables DIM_REPORTING_LINE_B, DIM_REPORTING_LINE_TL, DIM_REPORTING_LINE_ATTR, and DIM_REPORTING_LINE_HIER for adding any new custom reporting lines or modifying an existing reporting line.

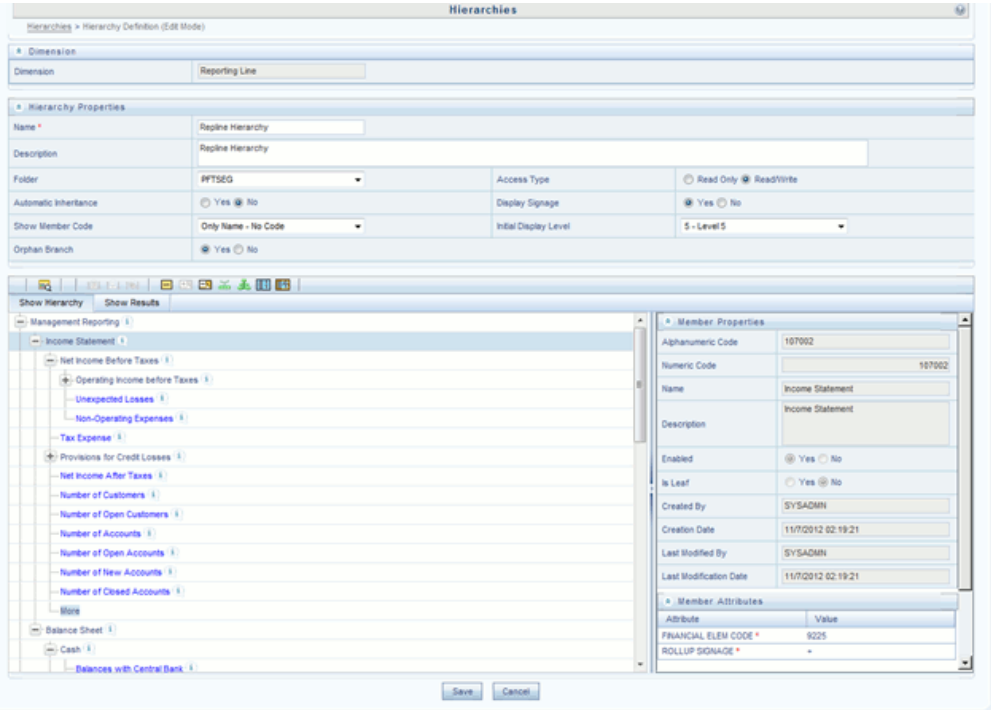
Execute the seeded batch **<Infodom>_ Repline_Dimension_Update** specifying the Reporting line hierarchy as parameter to batch.

It populates data into DIM_REP_LINE table. This batch invokes the DT fn_rep_line_parent_child.



To modify existing seeded Reporting Line Hierarchy:

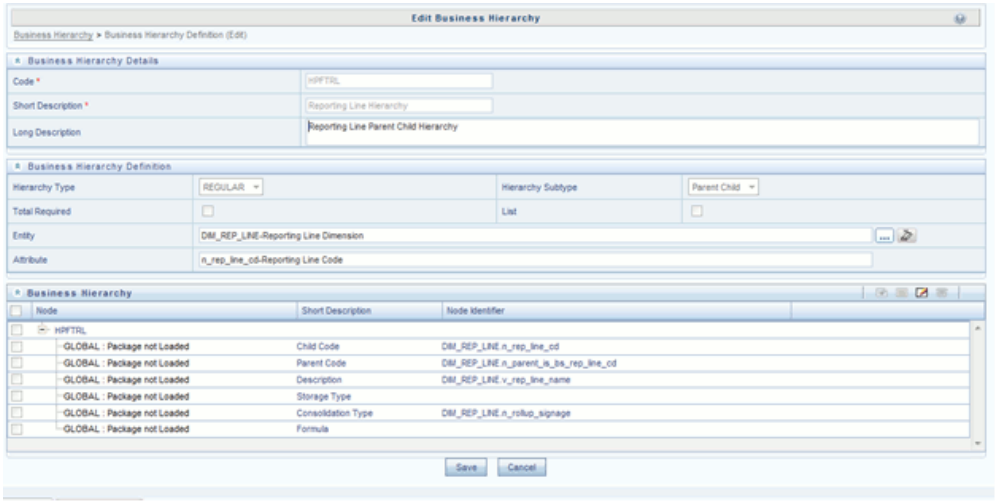
1. Select the check box adjacent to the Reporting Line Hierarchy to be modified.
2. Click **Edit** button from the menu.
3. Modify the Hierarchy as required and click **Save**.



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

Modify the Seeded Business Metadata

1. Resave the Seeded Business Metadata parent child hierarchy, "Reporting Line Hierarchy" (HPFTRL), so that the changes done are consolidated in the hierarchy as well.



2. (Optional) Create the Business Measures for the newly added reporting lines.
3. Attach and Save the defined Business Measures to the hierarchy "Reporting Line Measures".
4. Save the metadata.

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

Map Maintenance

Once all the above steps are done, the seeded map configured between the Reporting Line Hierarchy and Reporting Line Measure Hierarchy has to be modified if required from Map Maintenance of OFSAAI.

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

Prerequisites

Following are the lists of tables used in the population of Fact Account Profitability and these tables are required to be loaded prior to running the DT.

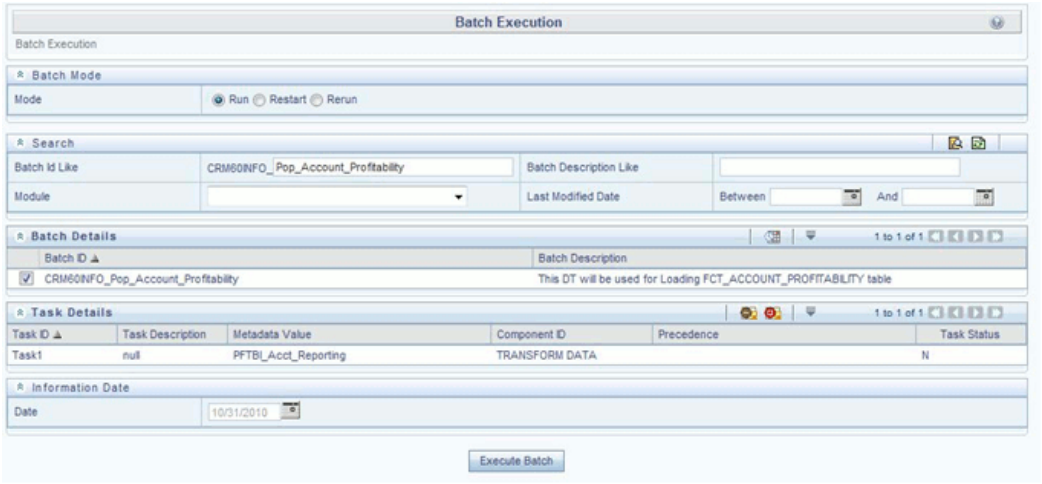
- DIM_DATES - Mandatory
- DIM_REP_LINE - Mandatory
- FCT_COMMON_ACCOUNT_SUMMARY
- FCT_PFT_ACCOUNT_SUMMARY

- FCT_FTP_ACCOUNT_SUMMARY
- FCT_REG_CAP_ACCOUNT_SUMMARY
- FCT_ECO_CAP_ACCOUNT_SUMMARY

For more information on SCDs, refer to Dimension Loading Process, page 3-1 chapter.

Executing the Fact Account Profitability Population DT

To execute the DT component from OFSAAI ICC framework (accessed through *Operations* module), a seeded batch, **<Infodom>_Pop_Account_Profitability** has to be executed for the required MIS Date.



Alternatively, you can create a new Task for an existing Batch from the *Batch Maintenance* screen, as mentioned below:

1. Select the check box adjacent to a Batch Name in the *Batch Maintenance* screen.
2. Click **Add** (+) button from the *Task Details* grid.

   The *Task Definition* screen is displayed.
3. Enter the **Task ID** and **Description**.
4. Select the **TRANSFORM DATA** component from the **Components** drop down list.
5. In the Dynamic Parameters List, select the appropriate **Datastore Type** from the drop down list.
6. Select the appropriate **Datastore Name** from the drop down list. Usually it is the Information Domain name.

7. Select the **IP Address** from the drop down list.

8. Select the Rule Name **FCT_ACCT_TRANSFORMATION** from the drop down list.

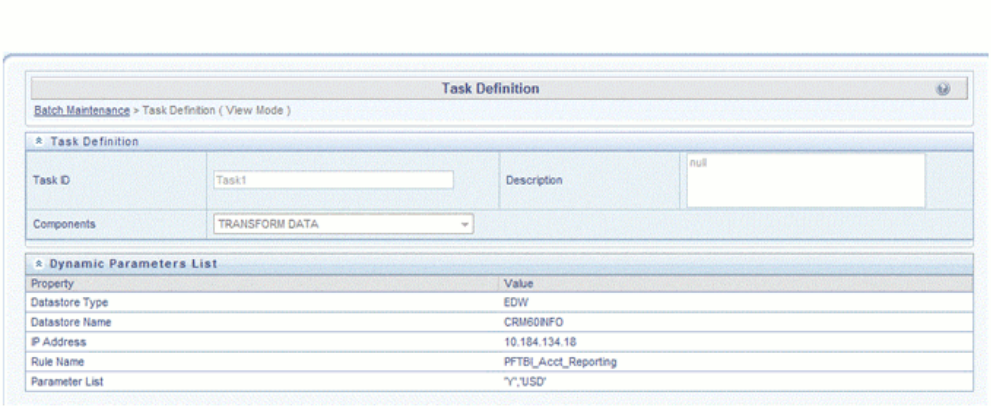
9. Enter the Parameter List details as mentioned below:

   - Reload Account Profitability table for the given MIS Date flag – can be Y or N within single quotes.

   - Reporting Currency code – This has to be enclosed within single quotes.

   For Example, if reporting currency is in US Dollar, then '**USD**' has to be specified.

   > **Note: Batch run ID** and **As Of Date** are passed internally by the batch to the Data Transformation task.



10. Execute the batch for which the Task has been created.

    > **Note:** The batches "<INFODOM>_POP_ACCOUNT_PROFITABILITY" and "<INFODOM>_aCRM_CRM_ACC_SUMM" populate a row with "Run skey & Reporting Currency Code" combo into the table RUN_EXE_PARAMETERS.
    >
    > If the user wants to run both the batches or if the user wants to re-execute one of these batches for the same "Run skey & Reporting Currency Code" combo, then the previous entry made in the table RUN_EXE_PARAMETERS have to removed manually before executing the batch for this value combo. Failing to do this will lead to the error while executing the batch.

For more details, refer to *Operations* chapter in *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Checking the Execution Status

The status of batch execution can be monitored from the *Batch Monitor* screen.

> **Note:** For a more comprehensive coverage of configuration and execution of a batch, refer to *Operations* chapter in *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/date*. The file name will have the batch execution id.

Executing the Seeded Run Rule Framework

The CRM account summary T2Ts and the Fact Account Profitability DTs are now compatible with the OFSAAI Run Rule Framework. On executing these items from the RRF, the summary tables will be automatically populated with new Run Skey values. This section helps with brief information on executing the seeded RRF process, to populate the CRM account summary and Fact Account Profitability tables.

The CRM account summary T2Ts and the Fact Account Profitability DTs are packaged with the conventional ICC batches as well as with OFSAAI Run Rule Framework. It is recommended to use the OFSAAI Run Rule Framework to execute these items.

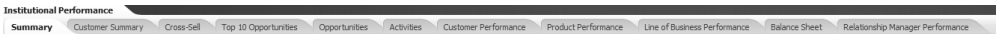
Please consider the following points before deciding the execution path.

- On executing these items through the Run Rule Framework, the run_skey value is automatically generated by the system and the same is populated in FCT_CRM_ACCOUNT_SUMMARY and FCT_ACCOUNT_PROFITABILITY tables.
- If the items are to be executed through ICC batch:
    - The user have to manually pass the run_skey value to be used while populating the records.
    - If the tables FCT_CRM_ACCOUNT_SUMMARY and FCT_ACCOUNT_PROFITABILITY already have the records for the run_skey being passed, the user have to manually delete these records from the tables

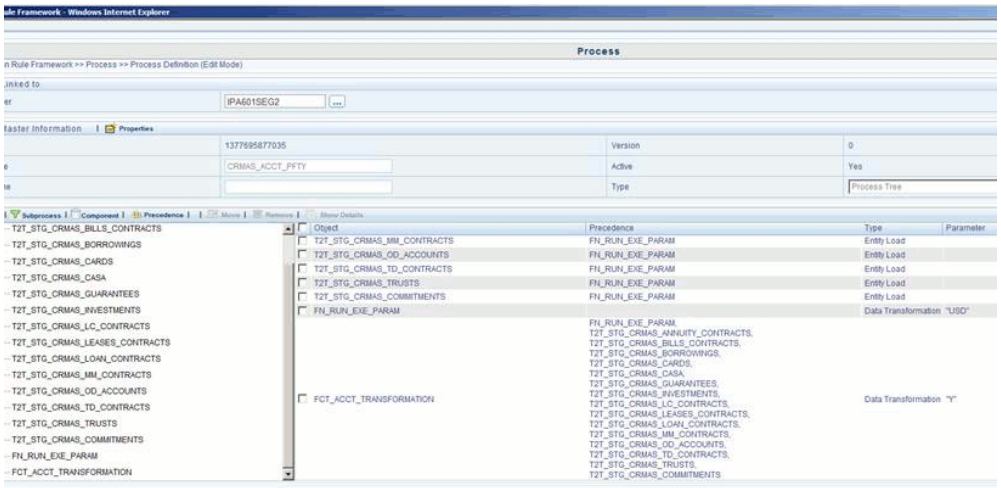
before executing.

- Please consider executing these items through ICC batch only if a repopulation for the same run_skey is to be performed.
- For a fresh run, it is always advised to use the Run Rule Framework.

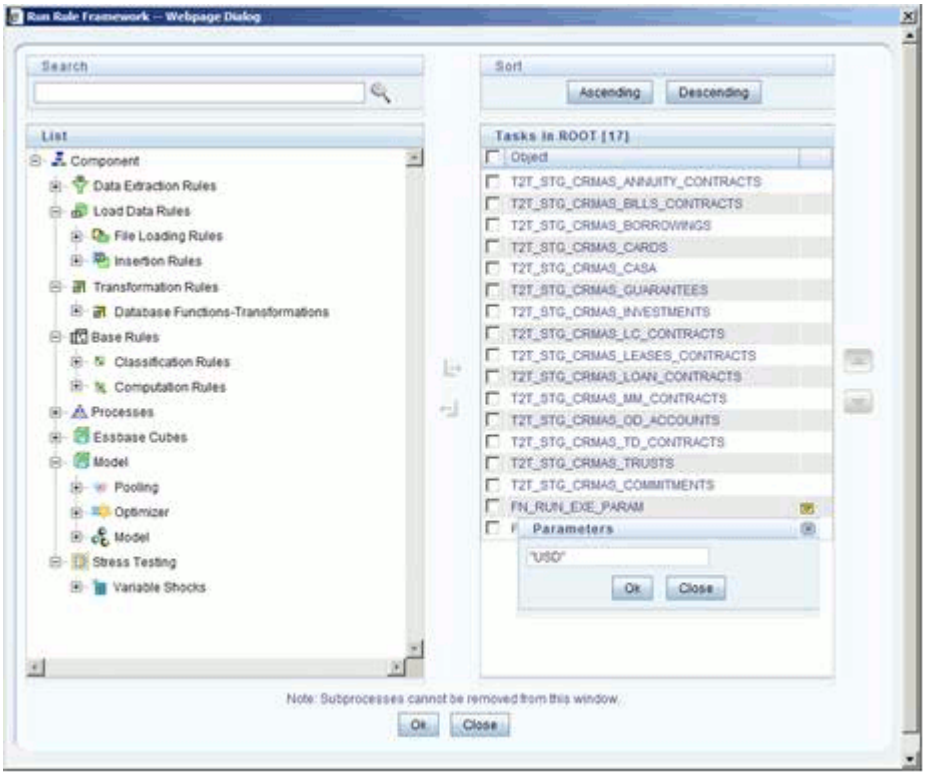
1. Select the seeded process by name "CRMAS_ACCT_PFTY" available in the *Process* screen.



2. Edit the process and click the "component" option.



3. From the list of tasks available in the right pane, click the arrow present near the " FN_RUN_EXE_PARAM" task.
4. Feed in the currency code of the Reporting Currency.



5. From the list of tasks available in the right pane, click the arrow present near the task by name "FCT_ACCT_TRANSFORMATION".

6. Feed the values for the below parameters as comma separated values enclosed individually in double quotes.

   - Re Run Flag
   - Regulator Capital flag (optional)
   - Economic Capital flag (optional)

7. Save the Process.

8. Select the seeded "Run" by name "CRMAS_ACCT_PFTY_RUN" and click "Fire Run" .

9. In the batch execution tab , select "Create & Execute" option from the **Batch** menu.

10. Select the desired MIS Date from the calendar and click **OK**.

11. The execution log can be accessed on the application server in the following directory:

$FIC_DB_HOME/log/date & $FIC_DB_HOME/log/t2t. The file name will have the batch execution id.

Note: For more information on configuration and execution of a Run rule, see Oracle Financial Services Analytical Applications Infrastructure User Guide.

10

Cube Build Process

Introduction

Reports of OFSIPA application can be configured to work on Relational database or Essbase cubes. Source of data for the reports is determined by the priority set for each Logical Table Source (LTS) in OBIEE RPD. Multi-dimensional databases store aggregated data for better performance and provide mechanisms for performing non-additive rollup within a hierarchy and defining complex derived measures using cross-dimensional operations. OFSAA Infrastructure is used for defining metadata about the cube and for building the cubes. Cubes are optional source of data for Institutional Performance application.

The chapter contains the following sections:

- List of cubes seeded within the application
- Process for building cubes

Overview of Cubes

OFSIPA application has the following seeded cubes:

- Institutional Analysis
  - Purpose

    The purpose of this cube is to provide analysis of various Account related measures across dimensions like Product, Line of Business, Vintage, and so on.

  - Dataset

    This cube is based on the FCT_COMMON_ACCOUNT_SUMMARY, FCT_CRM_ACCOUNT_SUMMARY, FCT_COMMON_CUSTOMER_SUMMARY, and

FCT_CRM_CUSTOMER_SUMMARY fact tables.

- RM P and L Cube
  - Purpose

    The purpose of this cube is to provide details of Profit and Loss statement of a Relationship Manager across dimensions like Line of Business, Product, Organizational Unit, and so on.

  - Dataset

    This cube is based on the FCT_ACCOUNT_PROFITAIBILTY and FCT_ACCOUNT_MGR_REL fact tables.

In case there is an error with the Relationship Manager cube saving or execution for the first time after the installation the parent child hierarchies must be saved by editing the hierarchies individually and re-saving them after which the cube needs to be saved successfully and re-executed.

Creating Configuration Files

Each cube has a configuration file that contains the details of dimensions and measures which are part of the cube. Essbase outline is created using the configuration file. Configuration files for seeded cubes are available as part of the installer. However, if there are any changes to cube definition then configuration files are recreated during saving of the cube definition.

Follow these steps:

1. On the LHS menu of OFSAAI, go to **Home > Unified Metadata Manager > Business Metadata Management > Cubes**.
2. Click Search and check if you can see the cubes in the pop up window that opens.
3. Click on the cube that needs to be built and click OK to return to the Cube Definition Screen.
4. Click Save to save the cube. A pop up appears saying 'Operation Successful'.

   Note: Cube definition will be saved only when the UI component detects any change event. In order to trigger the change event, type a blank space in 'Long Description' text-box and remove the same. Or a dimension can be removed from selected list, again the same dimension re-selected, variation applied for the dimension and saved.

Building Of Cubes

The Cube build process in OFSAA Infrastructure contains the following steps:

- Generating an aggregate DATA file containing the measure values for each dimension leaf that are part of the cube definition. This is performed by the **AGGREGATE DATA** component task within the batch definition.
- Creating the cube outline on Essbase server. This is performed by the **CREATE CUBE** component task within the batch definition.
- Loading the data to the cube. This is performed by the **CREATE CUBE** task within the batch definition

This section covers the following topics:

- Prerequisites
- Tables used by the Cube build component
- Executing the Cube build task
- Checking the execution status

Prerequisites

The following are prerequisites for creating a cube:

- All the post install steps mentioned in the OFSAA Infrastructure installation guide & Solution installation manual have been completed successfully.
- Parentage files need to be created for BI hierarchies after dimension data is loaded. 'Resave Metadata' process is used to create the parentage files.
- OFSAAI application user needs to have the required functions mapped to the user for doing Resave Metadata and accessing the Home> Unified Metadata Manager > Business Metadata Management screens and executing a batch from Application batch operations screen
- Execute Save Metadata by navigating to the following screen on the OFSAAI framework LHS Menu.
- Go to Home > Administration > Save Metadata.
- Choose all the available metadata under Hierarchy and move it to the right by using the '>>' button.

- Click Save and might take a few minutes for the saving to complete.
- Click Show Details to view the log for the Save operation.
- Ensure that the following services are running on the application server before doing a cube build:
  - Iccserver
  - Router
  - AM
  - Messageserver
  - Olapdataserver
- Batches need to be created for executing, which is explained in the Executing the Cube build section.
- All the required tables for dataset need to be populated before you execute the cube batches, such as Dimension Population, Time Dimension population, Account Summary Population and Fact Ledger Population.
- The dataset for the cube should return some rows in the database for the cube build to happen.

  To check the same, perform the following steps:
  - Navigate to Home > Unified Metadata Manager > Business Metadata Management > Data Sets.
  - Click Search.
  - Click any dataset in the pop up which opens and click Ok to return to the data set screen.
  - Click the button on right of ANSI Join text box. Enter the required expression or click the below button to define an expression using the Expression screen.
  - Click Ok to return to the data set screen.

    For more information, refer to Create Expression in *OFSAA Infrastructure User Guide*.
- Perform the same for Join/Filter Condition and Date filter.
- Frame a SQL query like this:

```
Select count(1) from <Enter the part you obtained from Ansi join
part above>where<Enter the part you obtained from Join/Filter
Condition & Date filterparts>
```

This query should show record count greater than zero when you fire this from SQL prompt in the database.

Tables Used by the Cube Build Component

Tables that are part of the dataset need to be populated before executing the cube build component. In addition, REV_BIHIER table in atomic database schema stores the hierarchy data for Business Intelligence-enabled hierarchies for cube build. This table gets populated when a hierarchy is saved using *Save Metadata* screen.

Executing the Cube Build Task

To execute the cube build process from OFSAAI ICC framework (accessed through the application Batch Operations screen), create a new Batch with two tasks – one for performing Data crunching (component is Aggregate Data) operations and another for building cube (component is Build Cube). The above batch needs to be created for each of the cubes.

- Aggregate Data Task
  - 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 on the check box in the Batch Name container.
  - Click New Task ('+' symbol in Task Details container).
  - Enter the Task ID and Description.
  - In the Component drop down, choose Aggregate Data.
  - 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.

- Cube Parameter - Choose the cube code to be built from the drop down list.
- Operation - Choose All from the drop down list.

- Create Cube Task
  - In the batch created in Aggregate Data task above, click New Task ('+' symbol in Task Details container).
  - Enter the Task ID and Description.
  - In the Component drop down, choose Create Cube.
  - 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.
    - Cube Parameter - Choose the cube code to be built from the drop down list.
    - Operation - Choose All from the drop down list.
  - Execute the batch created in the above step.

    Note: A common issue in the Aggregate task is Data Set not having records for which the steps mentioned in the prerequisites have to followed or the SQL query in Data Cruncher log file has to be checked on the database (Location of log file mentioned in the 'Checking the Execution Status' section below). In the Create Cube task one common error is the hierarchy member being the same for two different dimensions which are part of the same cube (Error message: 'Duplicate Alias' in the Create Cube log file). In this case, you can try appending a string to the Hierarchy member code so that it is unique across the cube or changing the hierarchy data to make the node unique across the cube.

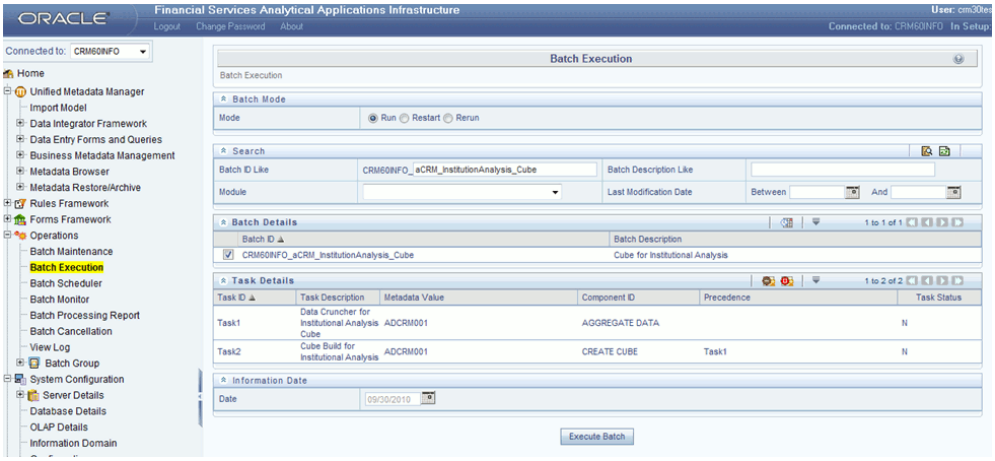
Seeded batches are provided along with the IPA application installer. The below described are the OFSIPA seeded batches:

- Institutional Analysis

  Seeded batch **<INFODOM _aCRM_InstitutionAnalysis_Cube** is provided with the installer. Execute the batch for the required MIS Date.

- RM P and L Cube

  Seeded batch <INFODOM_Reln_Mgr_Cube> is provided with the installer. Execute the batch for the required MIS Date.



Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen. This you can access by navigating to the following screen on the LHS menu screen: Home > Operations > Batch Monitor.

> **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/dc* for the Task 1 above (Aggregate Data). The file name will have the Batch Execution ID.

The execution log can be accessed on the application server by going to the following directory *$FIC_DB_HOME/log/olap* for the Task 2 above (Create Cube). The file name will have the Batch Execution ID.

Note: Refer to How to Develop a New Cube, page C-1 on how to add a New cube or modifying existing ones. For any new cube added using the OFSAAI framework Cube screen , the tasks for execution are the same as mentioned above.

11

Overview of OFSIPA Reports

Introduction to Dashboards

Oracle Financial Services Institutional Performance Analytics (OFSIPA) offers dashboards to users that organize different kinds of reports by subject area.

These reports present:

- Behavioral and Engagement trends of its target segments – exposures, commitments, line utilization, assets/liabilities, deposits, withdrawals, fees, income, recent transactions and so on.
- Performance of the business and underlying customers.
- Product holdings and Relationship depth across the organization (that is Corporate client and any of its sub-divisions or subsidiaries)
- Efficiency of the sales force in terms of ongoing customer revenue generation, cross-sell and up-sell, product usage and pipeline.
- Efficiency of investments (like marketing, partner development)

> **Note:** Time hierarchy prompted reports are all drill enabled on time hierarchy. On first load, the values are visible for a year, and on subsequent drills, we obtain values for quarter and month. These are not drill through reports.

Dashboards

Following tabs are present in the institutional performance dashboard:

- **Summary**

- **Customer Summary**
- **Cross-Sell**
- **Top 10 Opportunities**
- **Opportunities**
- **Activities**
- **Customer Performance**
- **Product Performance**
- **Line of Business Performance**
- **Balance Sheet**
- **Relationship Manager Performance**

The following screenshots display the essential nature of the available reports as per each tab:

Summary

- Open Customers by Product

  This report provides the number of Open Customers along with the associated products within a Line of Business over time.

Open Customers by Product

Time run: 3/5/2014 10:22:08 AM

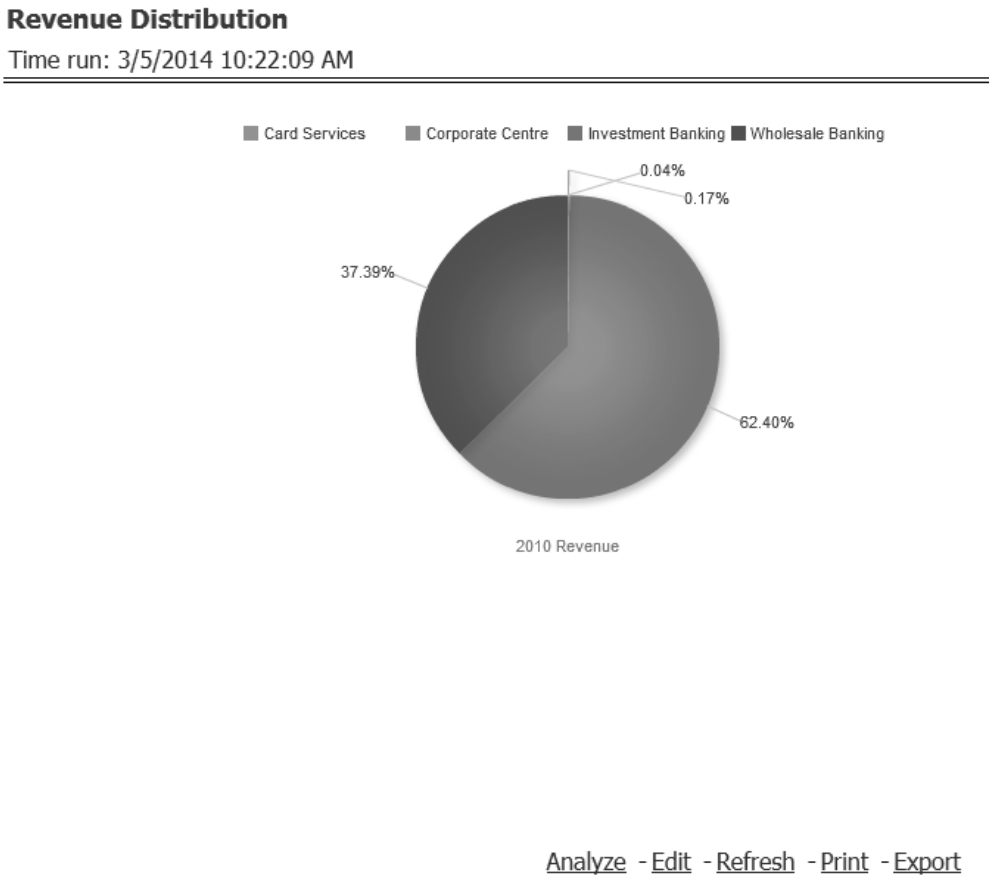
Time	Line of Business	Product	No. of Open Customers	% Change
2010	Investment Banking	Equity Funds	1336	
		Debt Funds	666	
		Subordinated Bonds	389	
		Treasury Bonds	1	
	Wholesale Banking	Secured Loans CRE	1739	
		Unsecured Bonds	8	
		Commercial Paper	3	
		Treasury Notes	2	
		Treasury Bonds	1	
	Corporate Centre	Corporate Bonds	1	
		Debt Funds	1	
		Equity Funds	1	
		Fixed Rate Deposit	1	
		Floating Rate Deposit	1	
		Government Bonds	1	

Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Revenue Distribution

  This report displays the breakdown of Revenue by Line of Business.



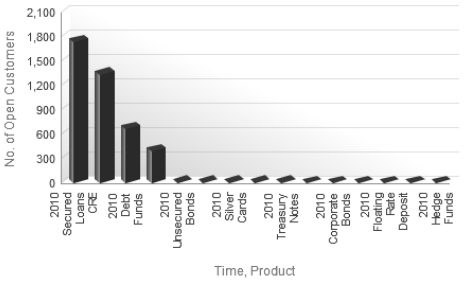
- Top 10 Products

  This report outlines the top 10 products across all lines of businesses as ranked by the number of customers of that product.

Top 10 Products

Time run: 3/5/2014 10:22:09 AM

Time	Product	No. of Open Customers
▷ 2010	Secured Loans CRE	1,739
	Equity Funds	1,337
	Debt Funds	666
	Subordinated Bonds	389
	Unsecured Bonds	8
	Commercial Paper	3
	Silver Cards	2
	Treasury Bonds	2
	Treasury Notes	2
	Branded Cards	1
	Corporate Bonds	1
	Fixed Rate Deposit	1
	Floating Rate Deposit	1
	Government Bonds	1
	Hedge Funds	1



Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Product Revenue Analysis

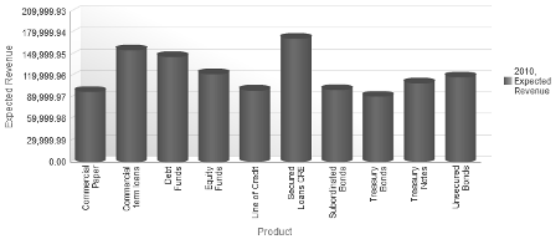
  This report displays the growth of revenue across various bank products over time.

Product Revenue Analysis

Time run: 3/5/2014 10:22:09 AM

Amount in Millions (USD)

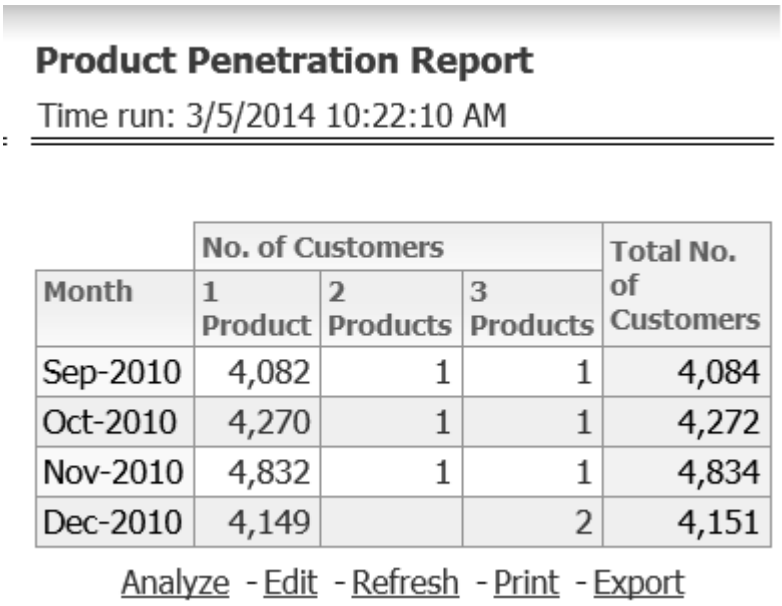
Time	Product	Expected Revenue
▷ 2010	Secured Loans CRE	173,176.98
	Commercial term loans	157,011.09
	Debt Funds	147,450.71
	Equity Funds	123,481.69
	Unsecured Bonds	119,141.27
	Treasury Notes	110,755.65
	Subordinated Bonds	101,207.54
	Line of Credit	100,603.63
	Commercial Paper	98,665.00
	Treasury Bonds	92,263.85



Analyze - Edit - Refresh - Print - Export

- Product Penetration Report

  This report demonstrates the depth of customer relationships across bank products. It outlines number of customers that have either one product, two products, or three products relationships with the bank.



Product Penetration Report

Time run: 3/5/2014 10:22:10 AM

Month	No. of Customers			Total No. of Customers
	1 Product	2 Products	3 Products	
Sep-2010	4,082	1	1	4,084
Oct-2010	4,270	1	1	4,272
Nov-2010	4,832	1	1	4,834
Dec-2010	4,149		2	4,151

Analyze - Edit - Refresh - Print - Export

Customer Summary

- Customer Distribution

  This report provides the distribution of the client base across the various industry verticals.

Customer Distribution

Time run: 3/5/2014 10:52:37 AM

Time	Line of Business	Industry	No. of Open Customers	% of Total
2010	Investment Banking	Finance	412	17.2%
		Professional	208	8.7%
		Whole Sale	208	8.7%
		Public	206	8.6%
		Manufacturing	203	8.5%
		All Industries	201	8.4%
		Transportation	199	8.3%
		Service	197	8.2%
		Information Technology	195	8.2%
		Property	194	8.1%
		Retail	169	7.1%
	Wholesale Banking	Finance	289	16.5%
		Manufacturing	174	9.9%
		Property	161	9.2%
		Professional	156	8.9%

Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Top 10 Customers by Revenue

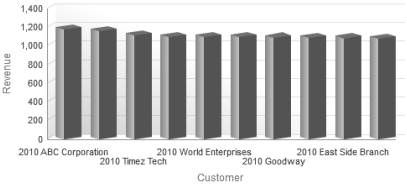
  This report outlines the top 10 customers of the bank along with associated revenue generated by the customer.

Top 10 Customers by Revenue

Time run: 3/5/2014 10:52:37 AM

Amount in USD

Time	Customer	Revenue
▷ 2010	ABC Corporation	1,178.85
	Saint - Gobain Abrasivos Ltda	1,155.69
	Timez Tech	1,114.35
	Charter Builders	1,097.68
	World Enterprises	1,091.25
	Baseball Office	1,090.88
	Goodway	1,089.25
	Iden Household	1,081.95
	East Side Branch	1,080.32
	Telefonica SA	1,076.05



Analyze - Edit - Refresh - Print - Export

- Customer Distribution By Region

  This report provides details about customers distributed among various region along with the Line of Business.

Customer Distribution by Region

Time run: 3/28/2014 12:23:09 PM

Time	Line of Business	Region	No. of Open Customers	% of Total
▽ 2010	Wholesale Banking	others	138	3.2%
		UK Region 1	137	3.2%
		UK Region 10	137	3.2%
		UK Region 2	137	3.2%
		UK Region 3	137	3.2%
		UK Region 4	137	3.2%
		UK Region 5	137	3.2%
		UK Region 6	137	3.2%
		UK Region 7	137	3.2%
		UK Region 8	137	3.2%
		UK Region 9	137	3.2%
		US Region 1	134	3.1%
		US Region 10	134	3.1%
		US Region 2	134	3.1%
		US Region 3	134	3.1%

Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Top 10 Products by Open Customers

  This report outlines the top 10 products within a line of business ranked by number of Open Customers along with the associated revenue.

Top 10 Products by Open Customers

Time run: 3/5/2014 10:52:37 AM

Amount in Millions (USD)

Time	Line of Business	Product	No. of Open Customers	Revenue	% of Revenue
▷ 2010	Investment Banking	Equity Funds	1,336	0.80	26.6%
		Debt Funds	666	0.39	13.1%
		Subordinated Bonds	389	0.67	22.3%
		Treasury Bonds	1	0.01	0.2%
	Wholesale Banking	Secured Loans CRE	1,739	1.02	34.0%
		Unsecured Bonds	8	0.02	0.8%
		Commercial Paper	3	0.04	1.2%
		Treasury Notes	2	0.01	0.4%
		Treasury Bonds	1	0.03	1.1%
	Corporate Centre	Corporate Bonds	1	0.00	0.0%
		Debt Funds	1	0.00	0.0%
		Equity Funds	1	0.00	0.0%
		Fixed Rate Deposit	1	0.00	0.0%
		Floating Rate Deposit	1	0.00	0.0%
		Government Bonds	1	0.00	0.0%

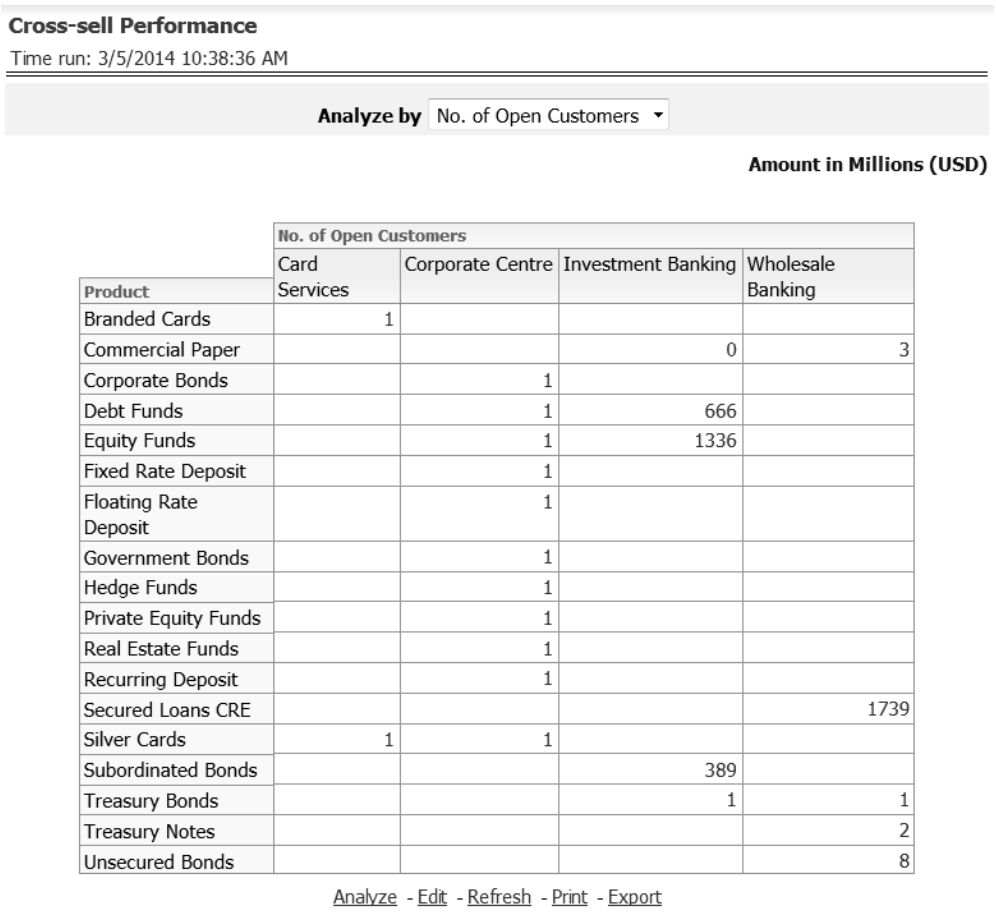
Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

Cross-Sell

- Cross-sell Performance

  This report outlines the performance of the Open Customers along with the associated products.



Cross-sell Performance

Time run: 3/5/2014 10:38:36 AM

Analyze by No. of Open Customers

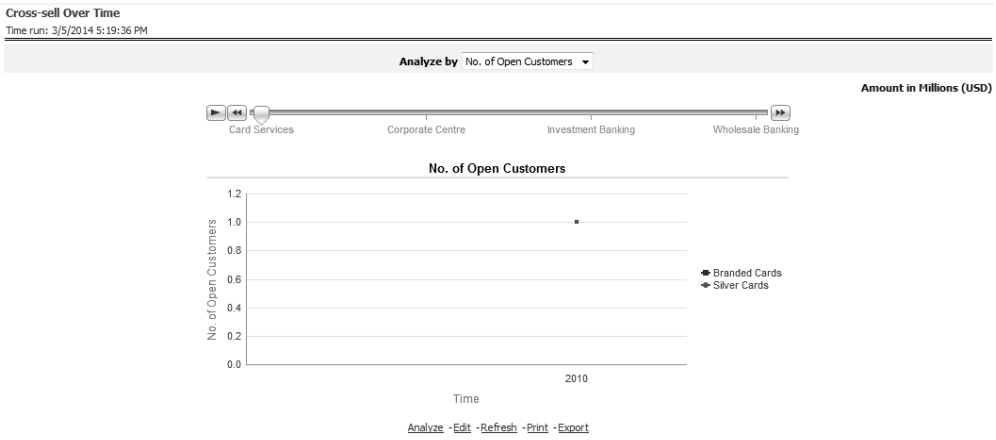
Amount in Millions (USD)

Product	No. of Open Customers			
	Card Services	Corporate Centre	Investment Banking	Wholesale Banking
Branded Cards	1			
Commercial Paper			0	3
Corporate Bonds		1		
Debt Funds		1	666	
Equity Funds		1	1336	
Fixed Rate Deposit		1		
Floating Rate Deposit		1		
Government Bonds		1		
Hedge Funds		1		
Private Equity Funds		1		
Real Estate Funds		1		
Recurring Deposit		1		
Secured Loans CRE				1739
Silver Cards	1	1		
Subordinated Bonds			389	
Treasury Bonds			1	1
Treasury Notes				2
Unsecured Bonds				8

Analyze - Edit - Refresh - Print - Export

- Cross-sell over Time

  This report displays time series outlining the growth of opportunities and growth in number of customers across the same time period.



Top 10 Opportunities

- Top 10 Sales Employees

  This report displays top 10 sales employees and identifies the best employee as ranked by the Estimated Revenue against deals closed by them. It also shows the number of wins and losses for the employee.

Top 10 Sales Employees

Time run: 3/5/2014 11:33:04 AM

Amount in Millions (USD)

Rank	Employee	Expected Revenue	No. of Wins	No. of Losses	Incentives
1	Thomos Martinez	190,094.94	26	4	
2	George Andy	160,737.82	19	5	8,138.25
3	Fransis Lucid	160,495.94	23	3	
4	B.K. Liebsung	150,514.64	25	3	
5	Mark Anthony	137,196.15	17	2	4,277.79
6	Stephen MAGILL	134,347.71	21	7	
7	A.J.Peter	131,916.05	20	1	
8	Tom Maddock	81,146.55	25	0	
9	Alfred Taylor	77,307.60	15	4	

Analyze - Edit - Refresh - Print - Export

- Top 10 Current Quarter Opportunities

  This report lists top 10 opportunities as ranked by Expected Revenue. This report also lists the product being sold and sales employee working on the deal and the probability of winning the same.

Top 10 Current Quarter Opportunities

Time run: 11:33:04 AM

Amount in Millions (USD)

Tir	Opportunity	Product	Employee	Revenue Probability	Opportunity Revenue
▷ 20	Sort Descending	Secured Loans CRE	B.K. Liebsung	47.33	17,505.77
	University of Buffalo	Subordinated Bonds	Alfred Taylor	29.72	17,139.41
	California Builders	Treasury Bonds	George Andy	21.54	17,030.89
	U.S. Treasury	Unsecured Bonds	B.K. Liebsung	18.27	16,621.47
	Streetsville	Secured Loans CRE	B.K. Liebsung	40.76	16,489.50
	New England Association of Colleges & Schools	Secured Loans CRE	A.J.Peter	45.43	16,483.68
	Union Computers	Commercial Paper	Thomos Martinez	16.01	16,376.01
	Office Group	Treasury Bonds	B.K. Liebsung	24.71	16,219.18
	The Brink's Company	Debt Funds	George Andy	40.33	16,172.11
	TDK CORPORATION	Equity Funds	George Andy	39.60	16,129.79

Analyze - Edit - Refresh - Print - Export

- Top 10 Wins

  This report lists the top 10 wins as ranked by Expected Revenue and the Sales Employee associated with the win and the date it was closed.

Top 10 Wins

Time run: 3/5/2014 11:33:04 AM

Amount in Millions (USD)

Time	Product	Employee	Opportunity Closed Date	Expected Revenue
▷ 2010	Secured Loans CRE	B.K. Liebsung	21-Dec-2010	14,747.36
			26-Oct-2010	12,478.45
			23-Dec-2010	11,351.43
			18-Oct-2010	11,178.49
			21-Oct-2010	740.91
			29-Nov-2010	14.17
			24-Nov-2010	13.69
			26-Nov-2010	8.46
			19-Sep-2010	5.78
			24-Sep-2010	5.75
			26-Sep-2010	5.42
			28-Sep-2010	5.17
			19-Nov-2010	4.43
			21-Sep-2010	2.60
		Thomos Martinez	25-Oct-2010	11,756.35

Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Top 10 Latest Opportunities

  This report lists the top 10 latest opportunities as ranked by Revenue.

Top 10 Latest Opportunities

Time run: 3/5/2014 11:33:04 AM

Amount in Millions (USD)

Time	Opportunity	Product	Sales Stage	Opportunity Revenue
▷ 2010	Vision Mexico - Obsoleted - do not use	Commercial term loans	05 - Building Vision	9,887.91
			04 - Opportunity	2.80
		Line of Credit	09 - Closed/Won	5,813.49
			01 - Prospecting	5.63
	Granja Viana S/A	Unsecured Bonds	05 - Building Vision	9,209.25
			09 - Closed/Lost	6,121.12
			08 - Negotiation	12.75
			04 - Opportunity	4.47
	Sumitomo Wiring Systems Ltd	Equity Funds	05 - Building Vision	9,773.36
			04 - Opportunity	5,359.12
			09 - Closed/Lost	1.48
	AVTOVAZ OAO	Equity Funds	03 - Established Need	8,563.86
			07 - Selected	5,528.62
		Secured Loans CRE	02 - Potential Lead	11.26
	Federated Bancorp	Equity Funds	04 - Opportunity	8,383.88

Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Top 10 Stalled Opportunities

  This report lists the top 10 Stalled Opportunities as ranked by Expected Revenue.

Top 10 Stalled Opportunities

Time run: 3/5/2014 11:33:04 AM

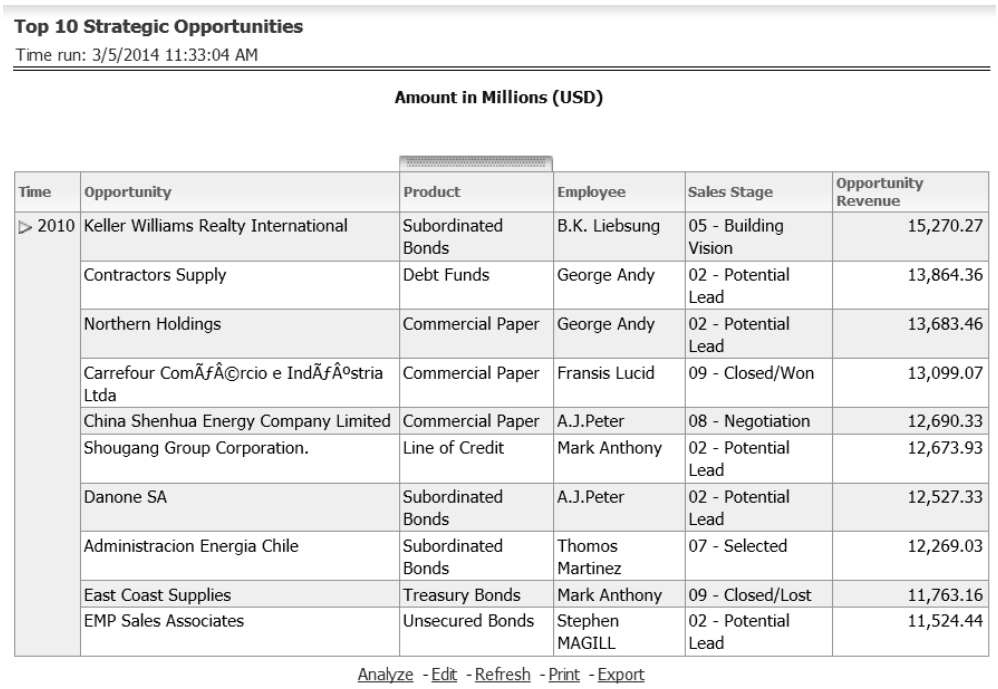
Amount in Millions (USD)

Time	Opportunity	Product	Employee	Sales Stage	No. of Days in Stage	Opportunity Revenue
▷ 2010	East Coast Supplies	Treasury Bonds	Mark Anthony	09 - Closed/Lost	671946	11,763.16
	Rapid Supplies	Treasury Notes	Mark Anthony	03 - Qualification	552212	11,431.09
	ABN Amro	Treasury Notes	Alfred Taylor	05 - Building Vision	782954	7,169.81
	Bank of Nova Scotia	Commercial Paper	Mark Anthony	04 - Opportunity	569862	6,584.27
	Gondola Corporation	Unsecured Bonds	George Andy	07 - Selected	585108	6,561.26
	Sports Ventures Ltd.	Subordinated Bonds	Fransis Lucid	03 - Qualification	691567	5,307.72
	Golden Responses Direct Mailing House	Equity Funds	Thomos Martinez	04 - Opportunity	594980	4,002.93
	USF Reddaway	Debt Funds	Fransis Lucid	05 - Building Vision	692752	3,534.43
	Vision Poland	Treasury Bonds	Mark Anthony	07 - Selected	613364	1,568.69
	Devon Networks	Line of Credit	A.J.Peter	05 - Building Vision	555064	254.53

Analyze - Edit - Refresh - Print - Export

- Top 10 Strategic Opportunities

  This report lists the top 10 Strategic Opportunities as ranked by Expected Revenue.



Top 10 Strategic Opportunities

Time run: 3/5/2014 11:33:04 AM

Amount in Millions (USD)

Time	Opportunity	Product	Employee	Sales Stage	Opportunity Revenue
▷ 2010	Keller Williams Realty International	Subordinated Bonds	B.K. Liebsung	05 - Building Vision	15,270.27
	Contractors Supply	Debt Funds	George Andy	02 - Potential Lead	13,864.36
	Northern Holdings	Commercial Paper	George Andy	02 - Potential Lead	13,683.46
	Carrefour ComÃƒÂ©rcio e IndÃƒÂºstria Ltda	Commercial Paper	Fransis Lucid	09 - Closed/Won	13,099.07
	China Shenhua Energy Company Limited	Commercial Paper	A.J.Peter	08 - Negotiation	12,690.33
	Shougang Group Corporation.	Line of Credit	Mark Anthony	02 - Potential Lead	12,673.93
	Danone SA	Subordinated Bonds	A.J.Peter	02 - Potential Lead	12,527.33
	Administracion Energia Chile	Subordinated Bonds	Thomos Martinez	07 - Selected	12,269.03
	East Coast Supplies	Treasury Bonds	Mark Anthony	09 - Closed/Lost	11,763.16
	EMP Sales Associates	Unsecured Bonds	Stephen MAGILL	02 - Potential Lead	11,524.44

Analyze - Edit - Refresh - Print - Export

- Top 10 Opportunities - Existing Customers

  This report identifies the opportunities that are being worked on with existing customers as ranked by Expected Revenue.

Top 10 Opportunities - Existing Customers

Time run: 3/5/2014 11:33:05 AM

Amount in Millions (USD)

Time	Opportunity	Opportunity Status	Win/Loss Status	Opportunity Revenue RCY	Expected Revenue
2010	Schneider	OPEN	N.A	17,507.42	
	Luxottica Group S.p.A.	OPEN	N.A	17,176.58	
	University of Buffalo	OPEN	N.A	17,144.45	
	California Builders	OPEN	N.A	17,037.18	
	Vision Financial Services (USA)	OPEN	N.A	16,972.36	
	Digital Construction	OPEN	N.A	16,931.74	
	People's Insurance Company Of China Group, The	OPEN	N.A	16,860.35	
	Allianz SE	OPEN	N.A	16,634.13	
	U.S. Treasury	OPEN	N.A	16,626.82	
	Streetsville	CLOSED	WON	16,495.25	16,495.25

Sort Ascending

Analyze - Edit - Refresh - Print - Export

- Top 10 Opportunities by Opportunity Revenue

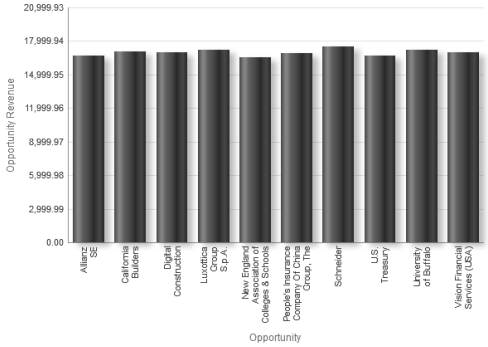
  This report displays the top 10 opportunities as ranked by Expected Revenue.

Top 10 Opportunities by Opportunity Revenue

Time run: 11:33:05 AM

Amount in Millions (USD)

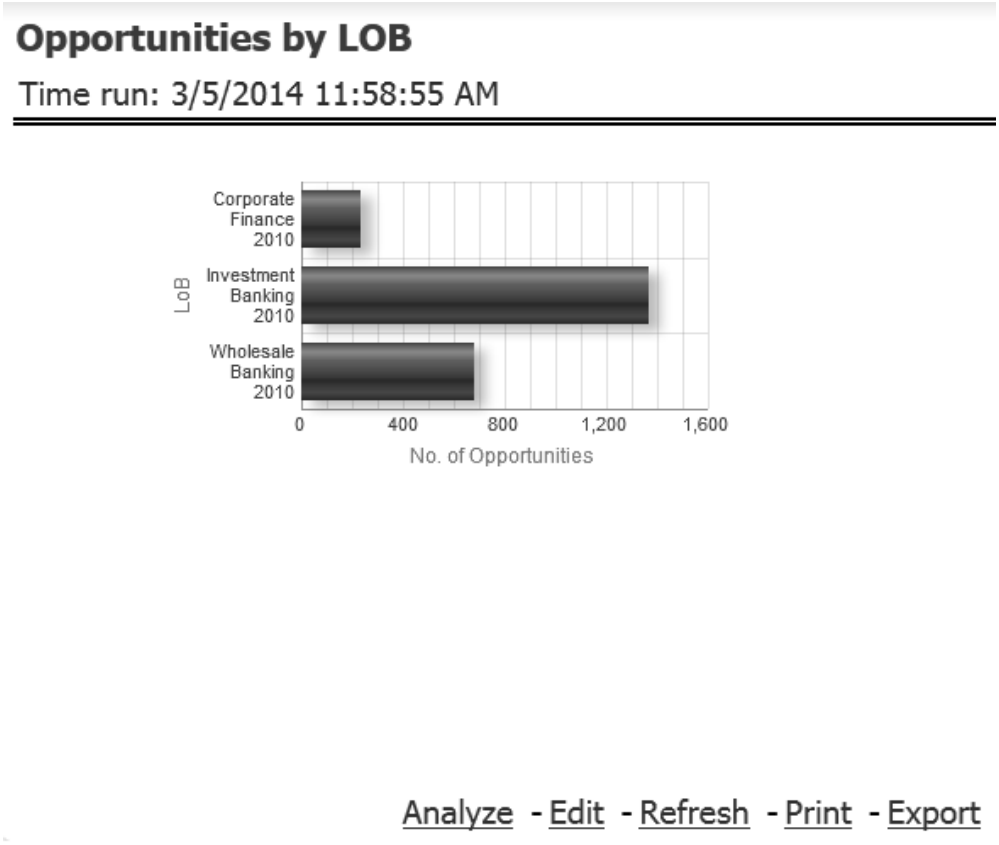
Opportunity	Opportunity Revenue
Schneider	17,507.42
Luxottica Group S.p.A.	17,176.58
University of Buffalo	17,144.45
California Builders	17,037.18
Vision Financial Services (USA)	16,972.36
Digital Construction	16,931.74
People's Insurance Company Of China Group, The	16,860.35
Allianz SE	16,634.13
U.S. Treasury	16,626.82
New England Association of Colleges & Schools	16,485.38



Opportunities

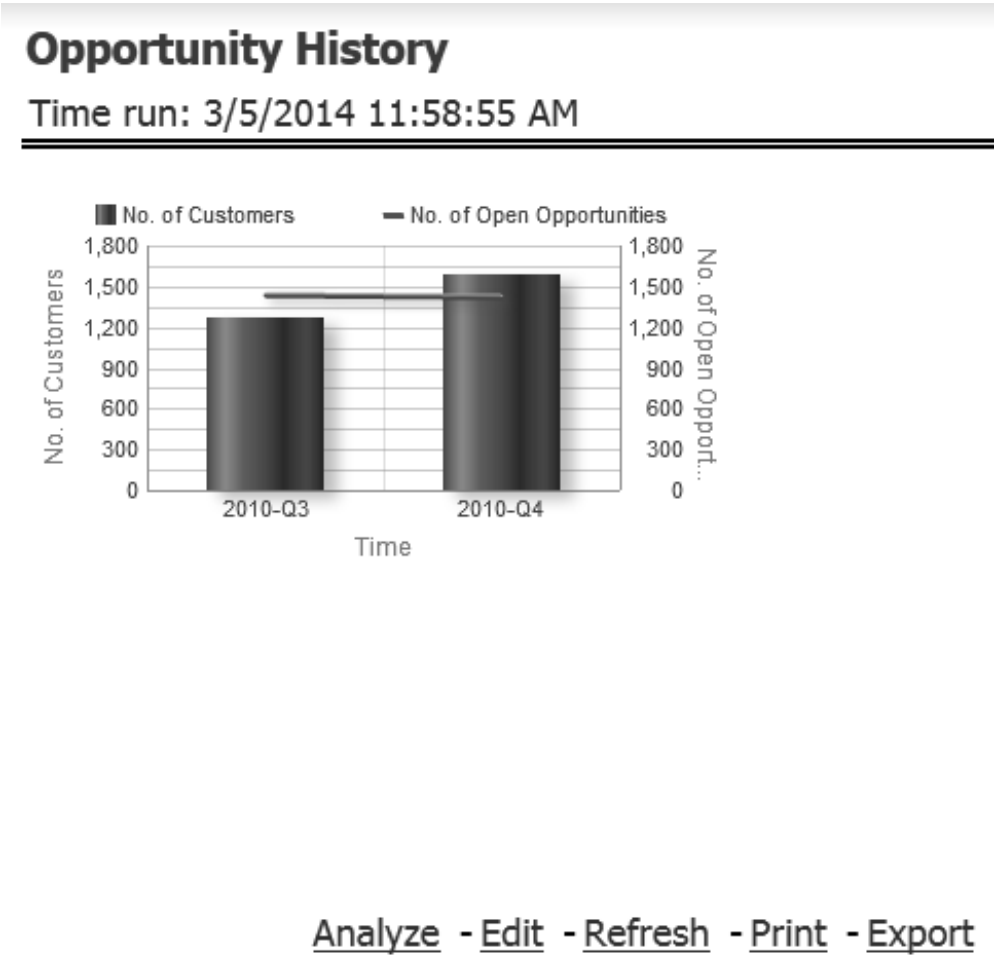
- Opportunities by LOB

This report shows the number of current opportunities across the various lines of business.



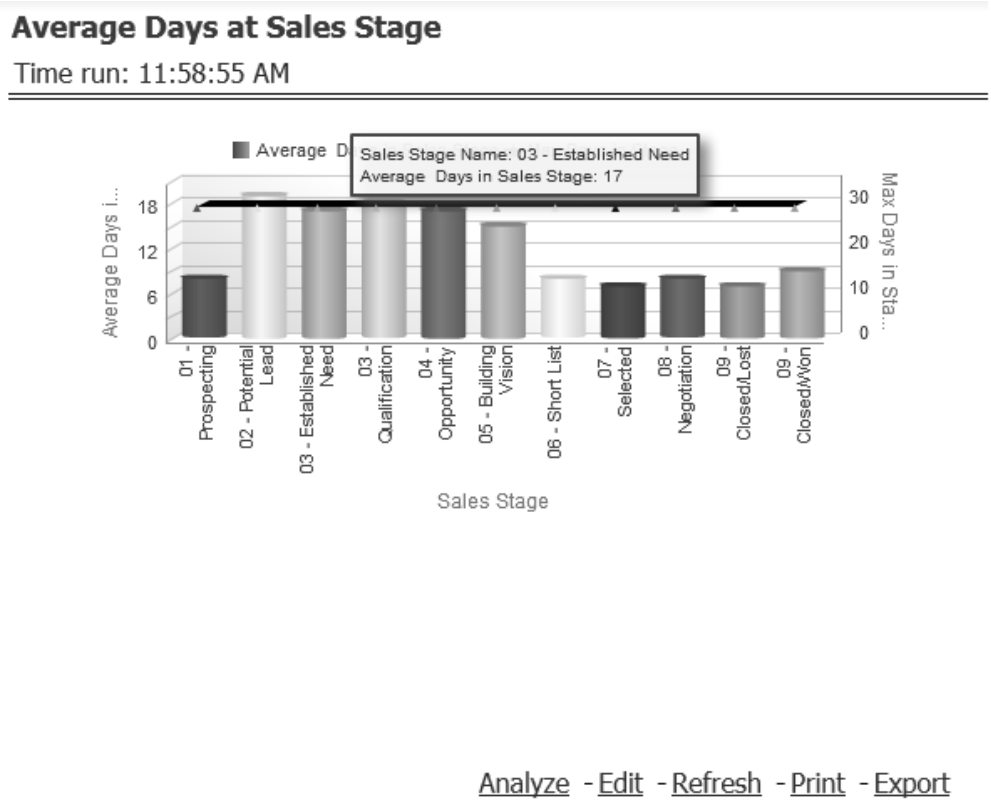
- Opportunities by History

  This report displays the time series outlining the growth of opportunities and growth in number of customers across the same time period.



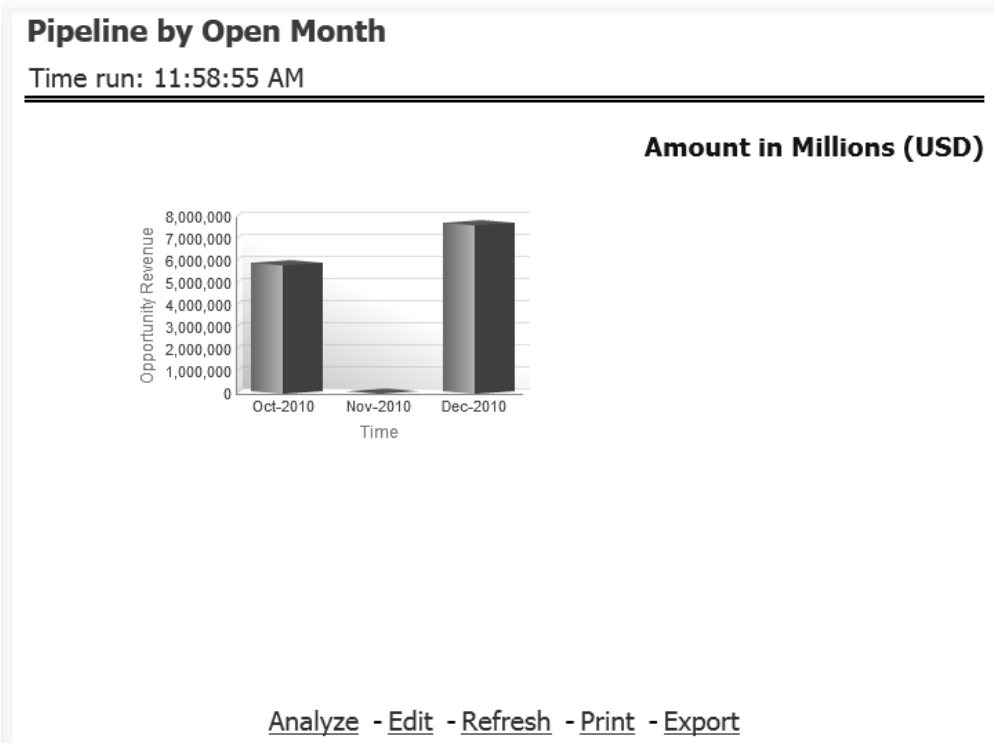
- Average day at Sales Stage

  This report displays the average number of days an opportunity stays in any stage of the sales cycle witnessed in every stage.



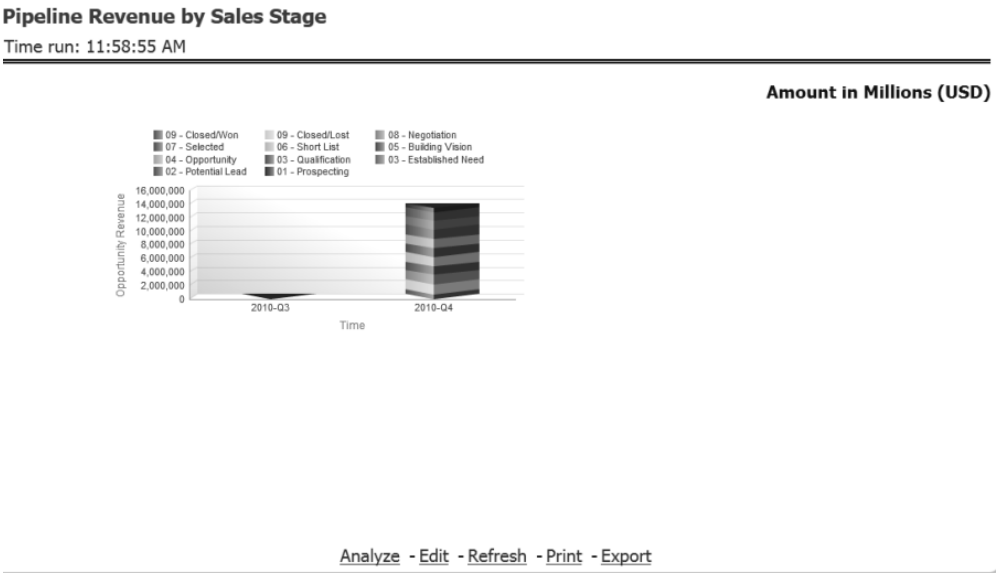
- Pipeline by Open Mouth

  This report displays the expected revenue corresponding to open opportunities over time.



- Pipeline Revenue by Sales Stage

  This report displays the distribution of expected revenue corresponding to each sales stage over time.



- Opportunity Distribution by Industry

  This report shows the distribution of Open Opportunities across various Industry verticals they belong to.

Opportunity Distribution by Industry

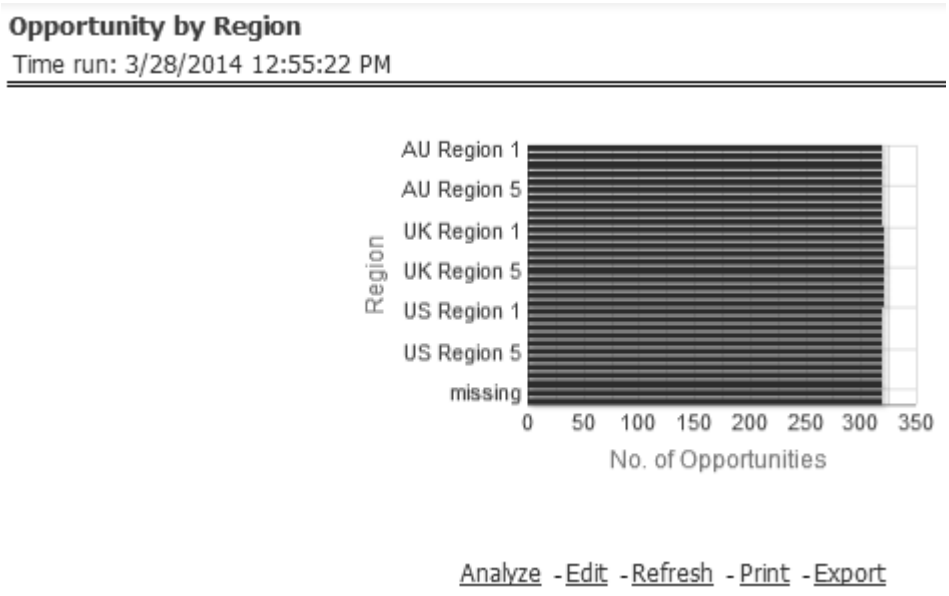
Time run: 3/5/2014 11:58:55 AM

Industry	No. of Open Opportunities	% of Total
IT/BPO	140	9.9%
Property	139	9.8%
Manufacturing	133	9.4%
Transportation	121	8.5%
Whole Sale	120	8.5%
Public	117	8.2%
Professional	116	8.2%
Service	116	8.2%
Retail	109	7.7%
Finance	108	7.6%
Telecom	101	7.1%
Others	100	7.0%
Grand Total	**1,420**	**100.0%**

Analyze - Edit - Refresh - Print - Export

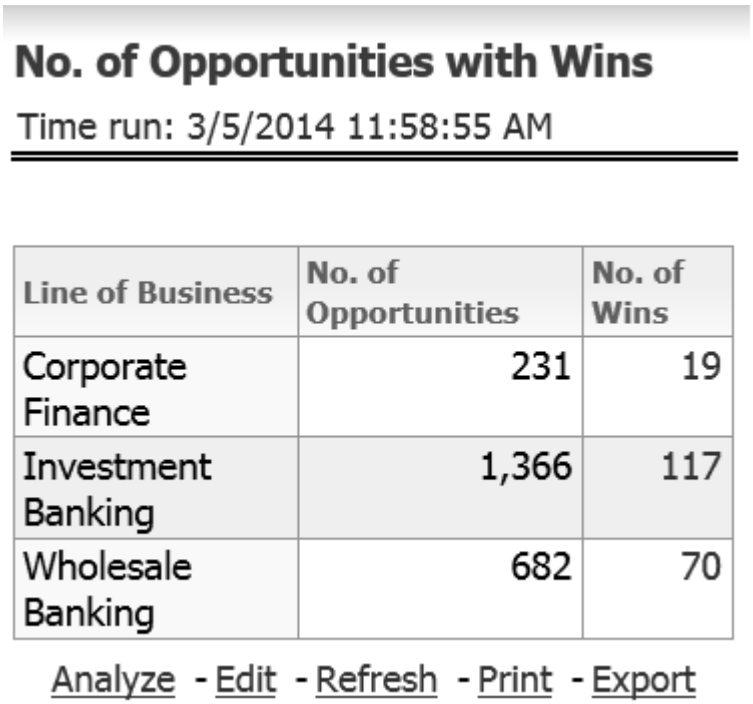
- Opportunities by Region

  This report displays the opportunities along with the corresponding regions.



- No. of Opportunities with Wins

  This report displays the Number of Open Opportunities and corresponding wins in the current period.



No. of Opportunities with Wins

Time run: 3/5/2014 11:58:55 AM

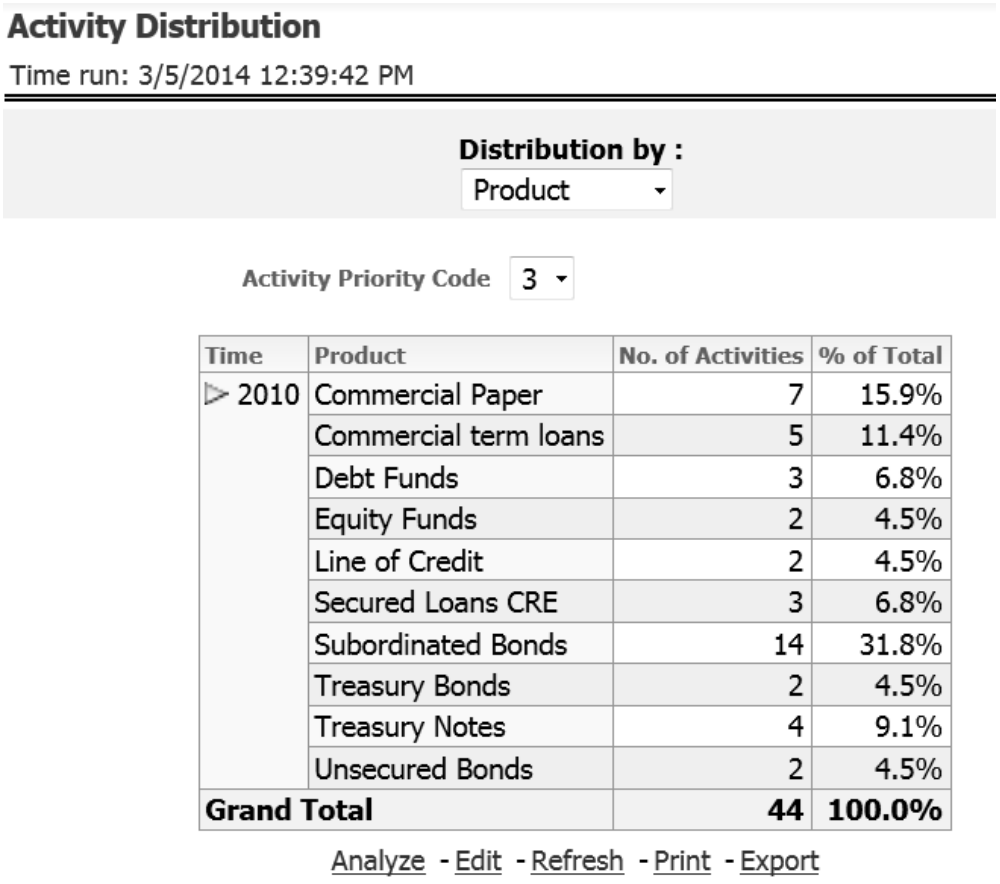
Line of Business	No. of Opportunities	No. of Wins
Corporate Finance	231	19
Investment Banking	1,366	117
Wholesale Banking	682	70

Analyze - Edit - Refresh - Print - Export

Activities

- Activity Distribution

  This report displays the number of activities across various activity priorities distributed by the Product or Activity Type.



Activity Distribution

Time run: 3/5/2014 12:39:42 PM

Distribution by : Product

Activity Priority Code 3

Time	Product	No. of Activities	% of Total
▷ 2010	Commercial Paper	7	15.9%
	Commercial term loans	5	11.4%
	Debt Funds	3	6.8%
	Equity Funds	2	4.5%
	Line of Credit	2	4.5%
	Secured Loans CRE	3	6.8%
	Subordinated Bonds	14	31.8%
	Treasury Bonds	2	4.5%
	Treasury Notes	4	9.1%
	Unsecured Bonds	2	4.5%
Grand Total		**44**	**100.0%**

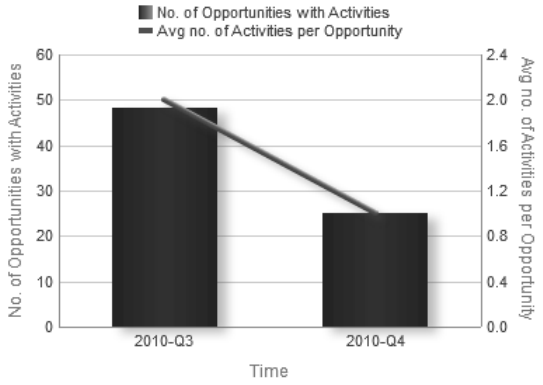
Analyze - Edit - Refresh - Print - Export

- Opportunities with Activities

  This report lists the number of opportunities that have an outstanding activity.

Opportunities with Activities

Time run: 3/5/2014 12:39:42 PM



Analyze - Edit - Refresh - Print - Export

- Top 5 Opportunities by No. of Activities

  This report lists the top 5 opportunities that have the most outstanding activities. This identifies opportunities with the most activity.

Top 5 Opportunities by No. of Activities

Time run: 3/5/2014 12:39:42 PM

Time	Opportunity	No. of Activities	No. of Open Activites	Activity Completion Rate %
▷ 2010	ABN Bank NV	8	4	50.0000%
	Digital Consulting	7	2	71.4286%
	KR Warehouse	7	2	71.4286%
	CSW Suppliers	6	0	100.0000%
	Knowledge Corporation	6	0	100.0000%

Analyze - Edit - Refresh - Print - Export

- Bottom 5 Opportunities by No. of Activities

  This report lists the number of opportunities with the least number of activities.

Bottom 5 Opportunities by No. of Activities

Time run: 3/5/2014 12:39:42 PM

Time	Opportunity	No. of Activities	No. of Open Activites	Activity Completion Rate %
▷ 2010	BANK OF AMERICA CORPORATION	1	0	100.0000%
	Constellation Stores	1	0	100.0000%
	Delight Products Mart	1	0	100.0000%
	Equity Electronics	1	0	100.0000%
	Exel Ltd.	1	0	100.0000%
	HomeCo Contracting	1	0	100.0000%
	Hsbc Bank Plc	1	0	100.0000%
	IN4-Mumbai	1	0	100.0000%
	Insight Devices	1	0	100.0000%
	LG Corporation	1	0	100.0000%
	MAV Magyar Allamvasutak Rt.	1	0	100.0000%
	Northern Group	1	0	100.0000%
	Pakistan Telecommunication Company Ltd.	1	0	100.0000%
	Performance Financial	1	0	100.0000%
	Precision Computers	1	0	100.0000%

Rows 1 - 15

Analyze - Edit - Refresh - Print - Export

- Balance Sheet

  This report displays the balance sheet details about a selected customer.

Balance Sheet

Time run: 3/5/2014 1:58:26 PM

Amount in Millions (USD)

	▽ 2010		
		▷ 2010-Q3	▷ 2010-Q4
▽ Balance Sheet	(24.86)	(23.06)	(24.86)
▽ Cash	155.87	134.31	155.87
Balances with Central Bank	155.87	134.31	155.87
▷ Loans '&' Advances to Customers	155.87	134.31	155.87
▷ Total Liabilities '&' Sharesholders Equity	(336.61)	(291.69)	(336.61)

Analyze - Edit - Refresh - Print - Export

Customer Performance

- Profit and Loss Summary

  This report displays a profit and loss summary for a selected customer within a specific Line of Business.

Profit and Loss Summary

Time run: 3/5/2014 12:48:29 PM

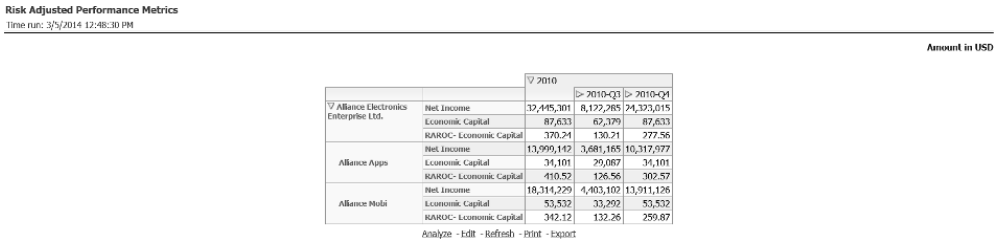
Amount in USD

		Movement									
		▽ Net Income Before Taxes									Tax Expense
			▽ Operating Income before Taxes	▷ Total Revenue, Net of Interest Expense	▷ Net Credit Losses	▽ Operating Expenses	Direct Account Expense	Indirect Processing Expense	Indirect Distribution Expense	Other Indirect Non-Interest Expense	
▷ Alliance Electronics Enterprise Ltd.	▽ 2010	32,445,301	32,445,301	32,692,095	(131,930)	378,724	112,731	64,407	109,049	92,537	534,202
	▷ 2010-Q3	8,177,785	8,177,785	8,177,606	(38,018)	93,338	29,821	19,471	17,702	26,344	133,550
	▷ 2010-Q4	24,323,015	24,323,015	24,514,489	(93,912)	285,386	82,910	44,935	91,348	66,193	400,651

Analyze - Edit - Refresh - Print - Export

- Risk Adjusted Performance Metrics

This report helps you to determine the ratio of risk-adjusted Net Income against the Economic Capital. This metric is also called Risk Adjusted Return On Capital (RAROC). It helps in determining the efficiency of Economic Capital corresponding to every customer.



Risk Adjusted Performance Metrics

Time run: 3/5/2014 12:48:30 PM

Amount in USD

		▽ 2010		
			▷ 2010-Q3	▷ 2010-Q4
▽ Alliance Electronics Enterprise Ltd.	Net Income	32,445,301	8,122,285	24,323,015
	Economic Capital	87,633	62,379	87,633
	RAROC- Economic Capital	370.24	130.21	277.56
Alliance Apps	Net Income	13,999,142	3,681,165	10,317,977
	Economic Capital	34,101	29,087	34,101
	RAROC- Economic Capital	410.52	126.56	302.57
Alliance Mobi	Net Income	18,314,229	4,403,102	13,911,126
	Economic Capital	53,532	33,292	53,532
	RAROC- Economic Capital	342.12	132.26	259.87

Analyze - Edit - Refresh - Print - Export

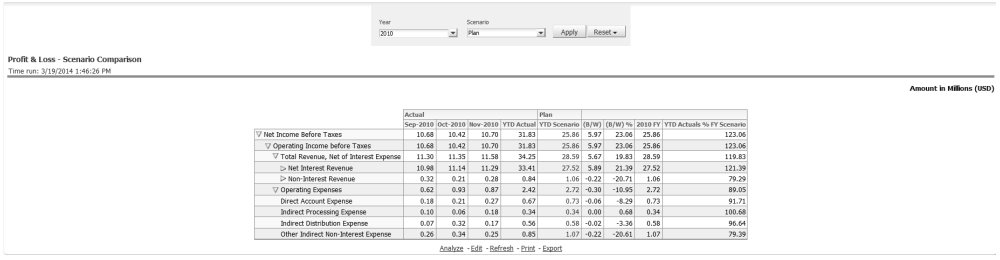
Product Performance

- Profit and Loss Summary

  This report displays a profit and loss summary for a selected product for a certain time period.

- Profit and Loss - Scenario Comparison

  This report provides the profit and loss details by comparing various scenarios for a selected product.



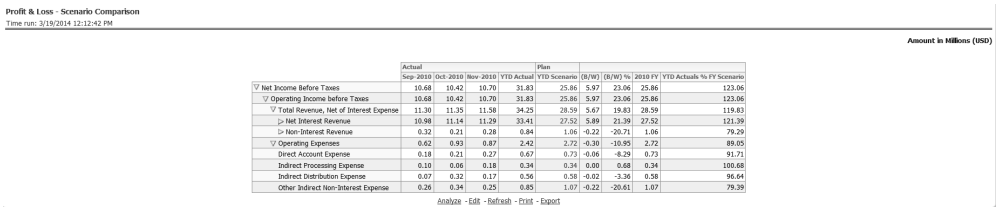
Line of Business Performance

- Profit and Loss Summary

This report displays a profit and loss summary for a selected Line of Business.

- Profit and Loss - Scenario Comparison

  This report provides the profit and loss details by comparing various scenarios for a selected Line of Business.



Profit & Loss - Scenario Comparison

Time run: 3/19/2014 12:12:42 PM

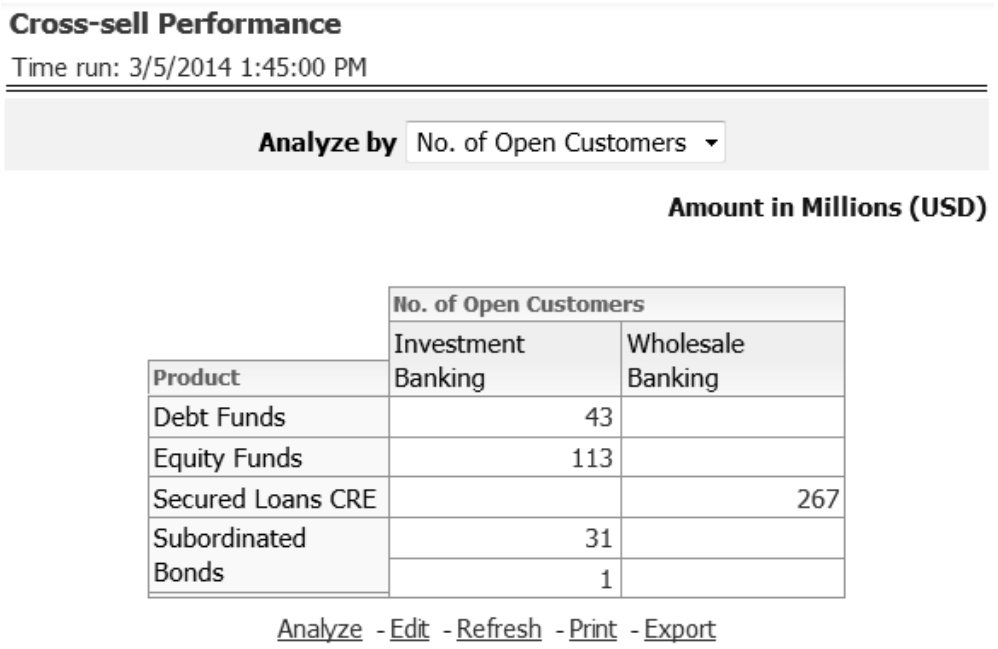
Amount in Millions (USD)

	Actual				Plan				
	Sep-2010	Oct-2010	Nov-2010	YTD Actual	YTD Scenario	(B/W)	(B/W) %	2010 FY	YTD Actuals % FY Scenario
▽ Net Income Before Taxes	10.68	10.42	10.70	31.83	25.86	5.97	23.06	25.86	123.06
▽ Operating Income before Taxes	10.68	10.42	10.70	31.83	25.86	5.97	23.06	25.86	123.06
▽ Total Revenue, Net of Interest Expense	11.30	11.35	11.58	34.25	28.59	5.67	19.83	28.59	119.83
▷ Net Interest Revenue	10.98	11.14	11.29	33.41	27.52	5.89	21.39	27.52	121.39
▷ Non-Interest Revenue	0.32	0.21	0.28	0.84	1.06	-0.22	-20.71	1.06	79.29
▽ Operating Expenses	0.62	0.93	0.87	2.42	2.72	-0.30	-10.95	2.72	89.05
Direct Account Expense	0.18	0.21	0.27	0.67	0.73	-0.06	-8.29	0.73	91.71
Indirect Processing Expense	0.10	0.06	0.18	0.34	0.34	0.00	0.68	0.34	100.68
Indirect Distribution Expense	0.07	0.32	0.17	0.56	0.58	-0.02	-3.36	0.58	96.64
Other Indirect Non-Interest Expense	0.26	0.34	0.25	0.85	1.07	-0.22	-20.61	1.07	79.39

Analyze - Edit - Refresh - Print - Export

- Cross-sell Performance

  This report outlines the performance of the Open Customers along with the associated products for a specific Line of Business.

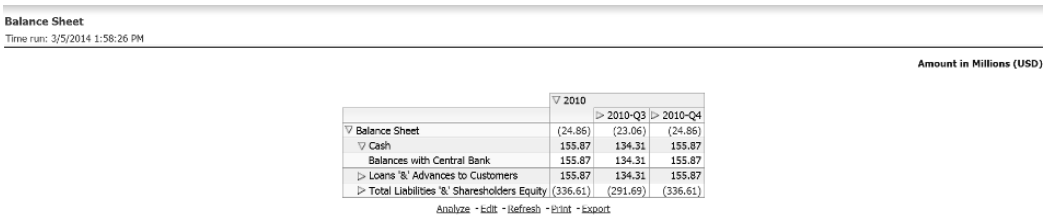


- Cross-sell Over Time

  This report displays the time series outlining the growth of opportunities and growth in number of customers for a specific Line of Business across the same time period.

Balance Sheet

This report displays the balance sheet details.



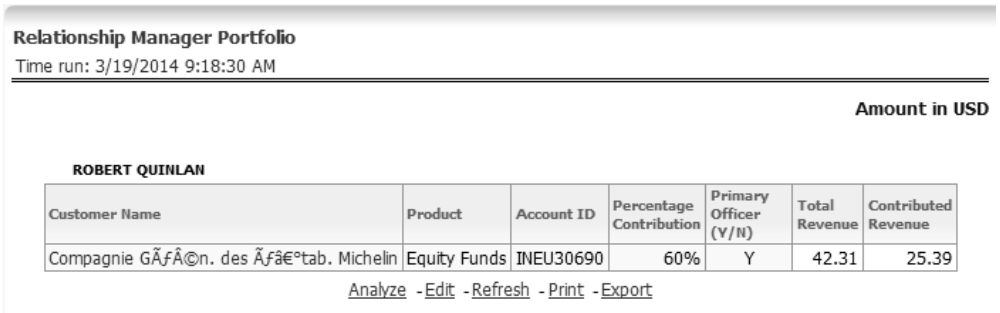
Relationship Manager Performance

- Relationship Manager - Profit and Loss Summary

  The Relationship Manager provides the profit and loss details.

- Relationship Manager Portfolio

  This report displays the various assets of a Relationship Manager.



Relationship Manager Portfolio

Time run: 3/19/2014 9:18:30 AM

Amount in USD

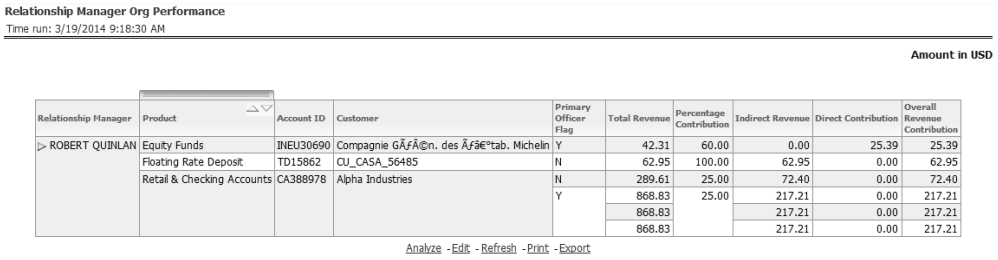
ROBERT QUINLAN

Customer Name	Product	Account ID	Percentage Contribution	Primary Officer (Y/N)	Total Revenue	Contributed Revenue
Compagnie GÃƒÂ©n. des Ã‚â€°tab. Michelin	Equity Funds	INEU30690	60%	Y	42.31	25.39

Analyze -Edit -Refresh -Print -Export

- Relationship Manager Organization Performance

  The Relationship Manager analyzes the performance of the Organization.



Relationship Manager Org Performance

Time run: 3/19/2014 9:18:30 AM

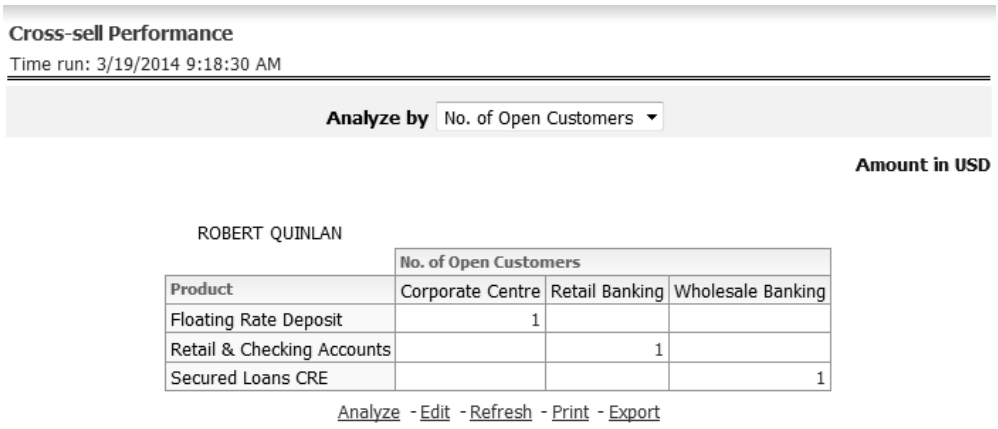
Amount in USD

Relationship Manager	Product	Account ID	Customer	Primary Officer Flag	Total Revenue	Percentage Contribution	Indirect Revenue	Direct Contribution	Overall Revenue Contribution
▷ ROBERT QUINLAN	Equity Funds	INEU30690	Compagnie GÃƒÂ©n. des Ã¡â€°tab. Michelin	Y	42.31	60.00	0.00	25.39	25.39
	Floating Rate Deposit	TD15862	CU_CASA_56485	N	62.95	100.00	62.95	0.00	62.95
	Retail & Checking Accounts	CA388978	Alpha Industries	N	289.61	25.00	72.40	0.00	72.40
				Y	868.83	25.00	217.21	0.00	217.21
					868.83		217.21	0.00	217.21
					868.83		217.21	0.00	217.21

Analyze - Edit - Refresh - Print - Export

- Cross-sell Performance

  The Relationship Manager reports the performance of the Open Customers along with the associated products for a specific Line of Business.



Cross-sell Performance

Time run: 3/19/2014 9:18:30 AM

Analyze by No. of Open Customers

Amount in USD

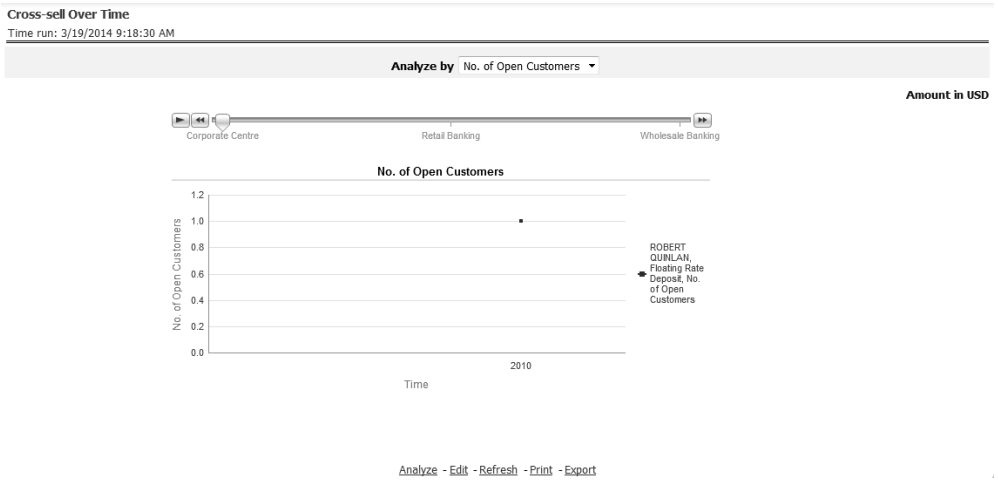
ROBERT QUINLAN

Product	No. of Open Customers		
	Corporate Centre	Retail Banking	Wholesale Banking
Floating Rate Deposit	1		
Retail & Checking Accounts		1	
Secured Loans CRE			1

Analyze - Edit - Refresh - Print - Export

- Cross-sell over Time

  The Relationship Manager reports the growth of opportunities and growth in number of customers for a specific Line of Business across the same time period.


Cross-sell Over Time
Time run: 3/19/2014 9:18:30 AM
Analyze by No. of Open Customers
Amount in USD
Corporate Centre
Retail Banking
Wholesale Banking
No. of Open Customers
1.2
1.0
0.8
0.6
0.4
0.2
0.0
No. of Open Customers
2010
Time
ROBERT QUINLAN, Floating Rate Deposit, No. of Open Customers
Analyze - Edit - Refresh - Print - Export

A

How to Add a New Dimension

Introduction

This section explains the steps to be performed by the user for adding a new dimension to the cube.

As a prerequisite, dimension tables should be added in the data model and the fact table needs to have the referential key with the dimension table. These dimension tables will hold dimension members and can be level-based or parent-child.

Level based dimension tables contain columns for each level of the hierarchy, while parent-child dimension tables contain columns for storing the relationship between the parent and child members. These dimension tables can be loaded from external systems or can be maintained within the Dimension Management component of OFSAAI.

If user intends to maintain the dimension within OFSAAI, see Data Model Utilities Guide for adding dimension tables under "Object Management" chapter.

Dimension Definition Process

Step 1 - Add Business Hierarchy

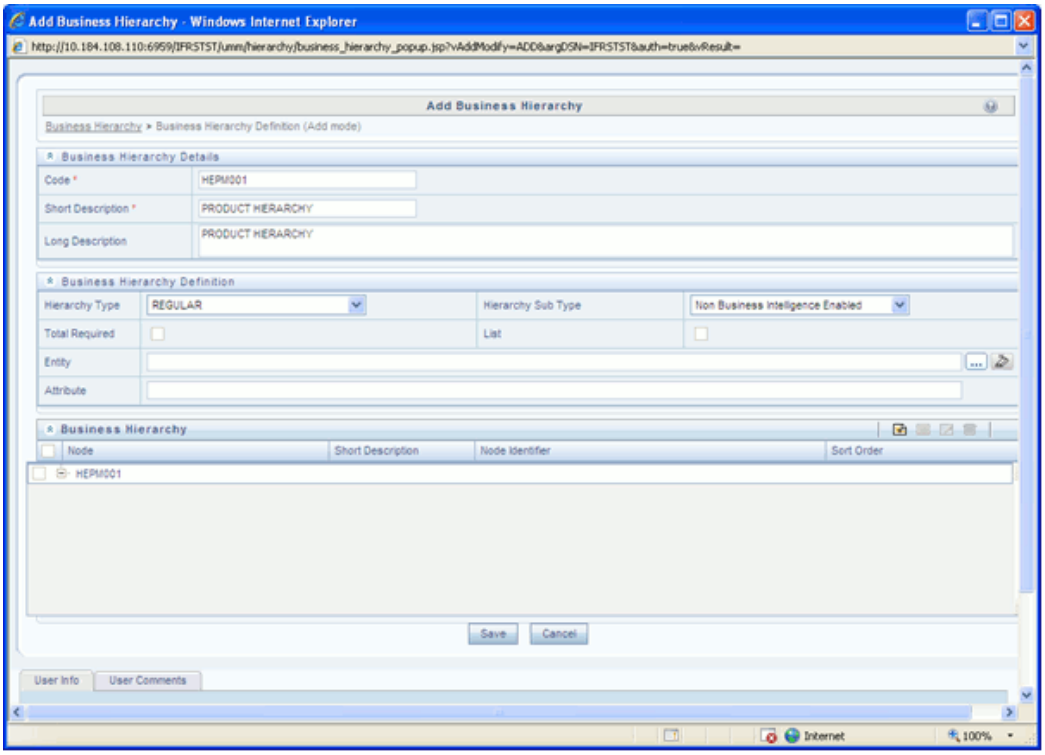
To define a new **Business Hierarchy**, go to **Unified Metadata Manager**, select **Business Metadata Management** and choose the type of hierarchy.

Hierarchy Types are:

- **Regular** – For representing non-time and non-measure dimensions in a hierarchical format. For example, this type are Product, Organization Unit, and so on.

- **Measure** – For representing the measures in the hierarchical format. This corresponds to a ACCOUNT hierarchy within the ESSBASE. An example of this type is Management Reporting Line.

- **Time** – For representing the calendar or date dimension in a hierarchical format. This corresponds to a TIME hierarchy within Essbase. An example of this type is Calendar hierarchy.



Choose Hierarchy subtype. Hierarchy SubTypes are:

- **Non Business Intelligence Enabled** – For representing the hierarchy with underlying data store containing just leaves and nodes are built within the metadata of the hierarchy. This subtype is useful for modelling bucket/range, ragged, and non-additive hierarchies.

- **Business Intelligence Enabled** – For representing the hierarchy with underlying data store as level-based dimension table. This subtype is useful for modelling balanced hierarchies.

- **Parent Child** – For representing the hierarchy with underlying data store as a parent-child dimension table. This subtype is useful for modelling ragged hierarchies.

Select the "Total Required" property, if a TOTAL is required to be included as the root node of the hierarch and select the "List" property, if hierarchy is a flat list of members without any levels.

Choose the entity and attribute on which the hierarchy is based. The components for hierarchy definition differ for each subtype of the hierarchy.

If subtype is "Non Business Intelligence Enabled", then the user can add nodes and order in which the node should appear in the hierarchy (sort-order). Node identifiers are SQL expressions that are specified for leaf members and data is classified based on the node identifiers.

If sub-type is "Business Intelligence Enabled", then the user can specify the levels and SQL expression for each level within the hierarchy.

If sub-type is "Parent Child", then the user can specify the column that contains the parent member and that contains the child member.

For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

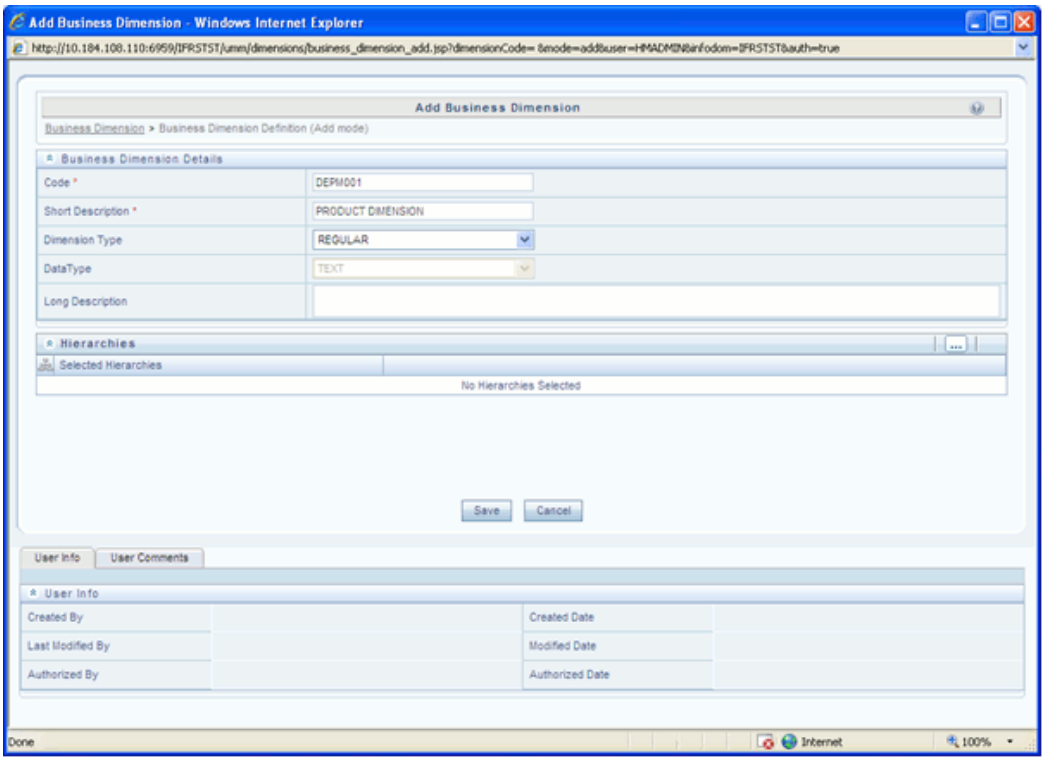
Step 2 – Add Business Dimension

To define a new **Business Dimension,** go to **Unified Metadata Manager**, select **Business Metadata Management**.

Choose the **Dimension Type**. Dimension Type is same as Hierarchy Type and helps to filter the hierarchies that will be part of the dimension. A dimension will contain one or many hierarchies. Choose the hierarchies that are part of the dimension.

The User Info grid at the bottom of the screen displays the metadata information about the Business Dimension created along with the option to add comments.

Click **Save** in **Add Business Dimension** screen to save the details.

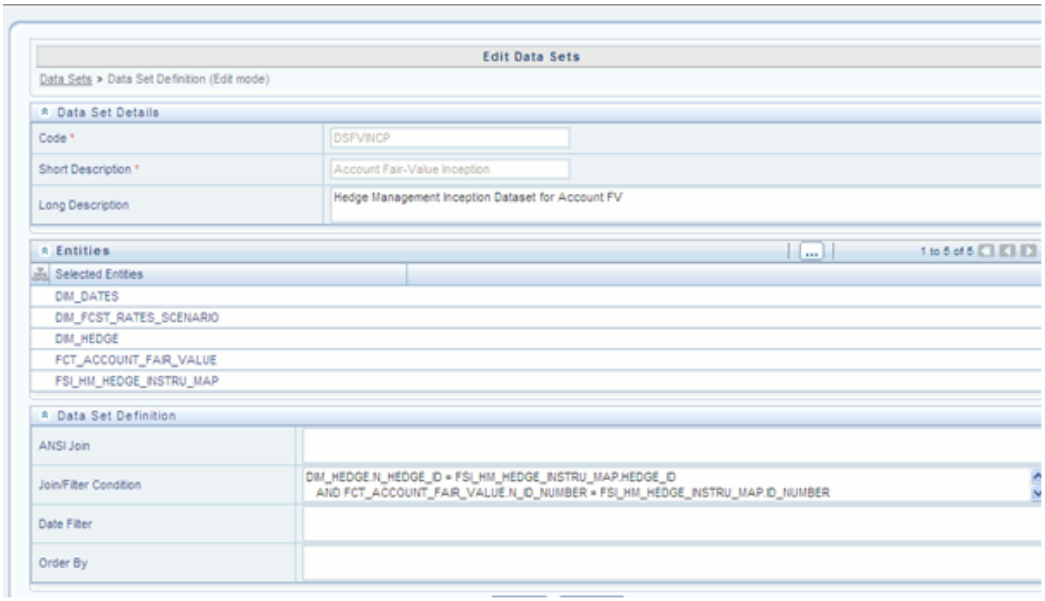


For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 3 – Modify Data Set

To modify **Data Sets**, go to **Unified Metadata Manager --> Business Metadata Management.**

Identify data sets that are based on the modified fact table. Open the data set definition. Include the new dimension table in the data set. Modify the data set JOIN to include the join clause between the fact table and new dimension table. Save the data set.



For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 4 – Modify Cube Definition

Modify "Cubes" in **Unified Metadata Manager -> Business Metadata Management**. Identify the cube that needs to be modified. Open the cube definition. Add the new dimension. Map the measures to the newly added dimension and **Save** the cube definition.

For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 5 – Build Cube

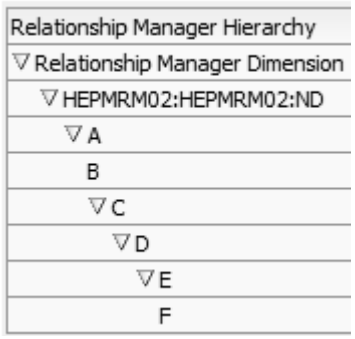
Assuming that the dimension table and fact table is loaded with relevant data, cube can be built. Define batch to execute the CREATE CUBE component that will build the outline and load data in ESSBASE.

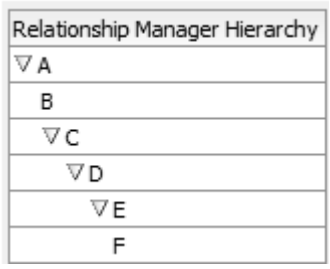
For more information on executing batch, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide*.

Steps to follow while using ESSBASE Source for Relationship Manager Hierarchy

The following are the steps to follow while using ESSBASE Source for Relationship Manager Hierarchy.

1. When creating a Parent Child hierarchy using ESSBASE, ESSBASE creates two additional parents to the existing hierarchy. For example:

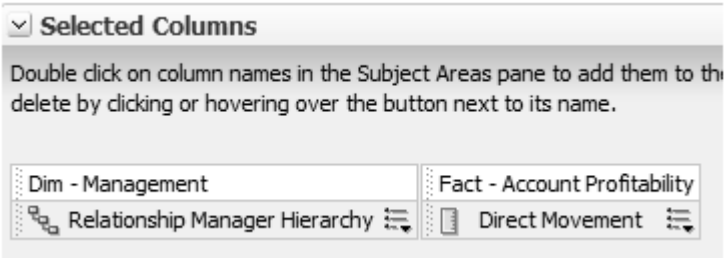


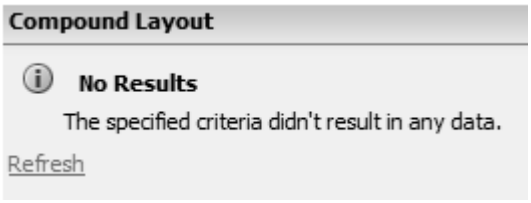


The first hierarchy is generated by RDBMS source and the second is generated by ESSBASE source. The additional parents are the Hierarchy Name and the Dimension Name of the metadata bearing the hierarchy.

2. In the context of using Relationship Manager Hierarchy for Institutional Performance, there is a concept of visibility of data implemented. This means that while using a cube source, D can see A listed as a manager in the hierarchy. However, D does not have the privilege to view the data (revenue, movement, and so on) related to A but can view the data for all the child nodes of D, for example, E and F.

   As a result, if Relationship Manager Hierarchy is selected along with Direct Movement, no results are displayed.

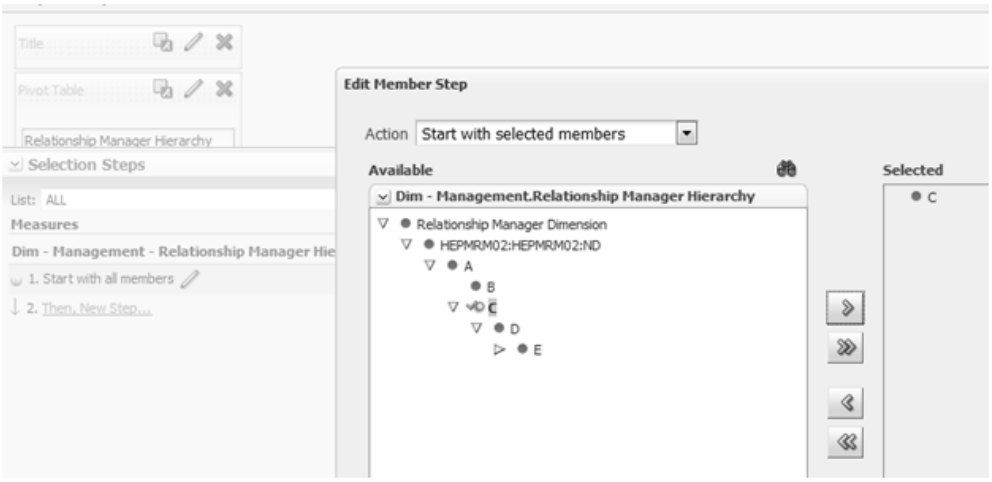




3. To view results for the logged-in Relationship Manager, the user must choose the Relationship Manager who is mapped to the user. In this case, the logged-in user is weblogic. From FSI_M_USER_MANAGER_MAP, the following is seen:

	V_USERNAME	V_MANAGER_CODE	D.V_AM_ACCT_MANAGER_FIRST_NAME
1	RELATIONSHIP MANAGER	A01	A
2	SALES REPRESENTATIVE	A02	B
3	weblogic	A03	C

4. Thus the user must start the hierarchy with C.



As a result, the user will be able to see the data related to the manager.

Relationship Manager Hierarchy	Direct Movement
▽C	-827.25
▽D	-827.25
▽E	-827.25
F	-1611.25

Metadata

Technical Metadata

The attached excel sheet lists the SCD's packaged in the IPA application.

The attached excel sheet lists the Institutional Performance Analytics technical metadata.

Optional Metadata

The following excel sheet lists the technical metadata related to PFT account summary.

The following excel sheet lists the technical metadata related to FTP account summary.

Business Metadata

The attached excel sheet lists the Oracle Financial Services Institutional Performance Analytics BI 6.0 Business Metadata.

OFSIPA Business metadata.xlsx

Reporting Metadata

The attached excel sheet lists the Customer Attributes.

Customer Attributes - IPA.xlsx

The attached excel sheet lists the IPA-RPD-Webcat metadata.

IPA-RPD_webcat.xlsx

B

How to Add a New Measure

Introduction

This section details the steps to be performed by the user for adding a new measure to the cube. As a prerequisite, the fact table needs to have the column that holds values for the new measure.

Measure Definition Process

Step 1 – Add Business Measure

1. From **Unified Metadata Manager**, select **Business Metadata Management**, then select **Business Measures**.

2. From Business Measures, click **Add** to create a Business measure definition. In the Business Measure Definition (Add mode) window, Select **Aggregation Function**. Aggregation Function can be:

   - SUM – for summing up the values in the column of the fact table.
   - COUNT – for determining the number of records in the fact table.
   - MAXIMUM – for identifying the maximum value of a column in the fact table.
   - MINIMUM – for identifying the minimum value of a column in the fact table.
   - COUNT DISTINCT – for determining the distinct count of records in the fact table.

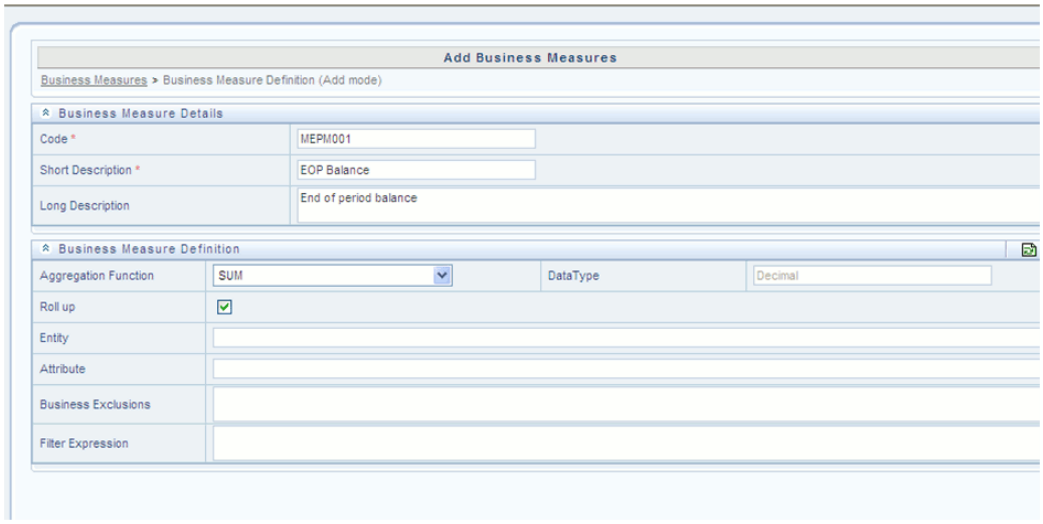
3. Specify if this measure needs to be rolled up against hierarchies.

4. Select the fact table as part of the Entity.

5. Select the column of the fact table as part of the Attribute. This column will hold the value of the measure.

6. Specify Business Exclusions and Filters, if required.

7. Save the measure.



For more information on Business Measures, see Business Measures under Unified Metadata Manager chapter in *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide*.

Step 2 – Modify Cube Definition

1. From **Unified Metadata Manager**, select **Business Metadata Management**, then select **Cube**.

2. Identify the cube that needs to be modified.

3. Edit the cube definition.

4. Add the new measure.

5. Map the measures to the to the required dimensions.

6. Save the cube definition.

Build Cube

Assuming that the dimension table and fact table is loaded with relevant data, cube can be built.

Define batch to execute the CREATE CUBE component that will build the outline and load data in ESSBASE.

For more information on executing the batch, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

C

How to Develop a New Cube

Introduction to Developing a New Cube

This section details the steps to be performed by the user for developing a new cube. Make sure that the existing cubes do not provide the required analytics / reporting coverage before deciding to define a new cube. In case user would like to see measures against a new dimension that is not part of the existing seeded metadata, then suggest including the new dimension as part of the existing cubes instead of creating a new cube. As a prerequisite, user should have defined datasets, measures, hierarchies and dimensions before defining a cube.

Procedures to Develop a New Cube

Step 1 – Add Cube

From **Unified Metadata Manager**, select **Business Metadata Management**, then select **Cube**. Specify the MDB details that will be created in ESSBASE.

Step 2 – Include Dimensions

Include dimensions that are part of the cube definition. Users mandatorily need to include TIME and MEASURE dimensions.

Step 3 – Specify Variations

Specify variations between each of the measures to the respective dimensions. All the measures that are part of the cube need not vary against all of the dimensions. Depending on business needs, variations can be specified to control the rollup of measures against a set of dimensions.

Step 4 – Specify Dataset

Specify dataset corresponding to the selected dimensions and measures. Data set will supply required data to the cube.

Step 5 – Specify Node Level Formula

If node level formula's are required to be specified for the nodes within the hierarchy, then they can be specified in this UI.

Step 6 – Save and Build

Save the cube. Define and execute batch in ICC to build the cubes.

For more information on Cubes, see Cubes under Unified Metadata Manager chapter in *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide*.

D

How to Define a Batch

Introduction

Batch refers to a set of executable processes based on a specified rule. Batch Maintenance framework within OFSAAI facilitates you to create and maintain the Batch Definitions. You can process the Batch scheduled for execution from Batch Maintenance and also from other modules.

You need to have Data Centre Manager function role mapped to access the Operations framework within OFSAAI. You can access Batch Maintenance by expanding Operations section within the tree structure of LHS menu. The *Batch Maintenance* window displays a list of Batches scheduled for maintenance with the other details such as Batch ID, Batch Description, and the editable state of the Batch.

Batch Creation

You can create a batch from the *Batch Maintenance* screen as mentioned below:

1. From the OFSAAI **Home** menu, navigate to **Operations > Batch Maintenance**.
2. In the *Batch Maintenance* window, Select '+' button from the *Batch Name* tool bar.

   The *New Batch Definition* window is displayed.
3. Enter the Batch details as tabulated.

Field	Description
Batch Name	The **Batch Name** is auto generated by the system. You can edit to specify a Batch name based on the following conditions: • The Batch Name should be unique across the Information Domain. • The Batch Name must be alpha-numeric and should not start with a number. • The Batch Name should not exceed 41 characters in length. • The Batch Name should not contain special characters "." and "-".
Batch Description	Enter a description for the Batch based on the Batch Name.
Duplicate Batch	(Optional) Select the checkbox to create a new Batch by duplicating the existing Batch details. On selection, the **Batch ID** field is enabled.
Batch ID (If duplicate Batch is selected)	It is mandatory to specify the Batch ID if Duplicate Batch option is selected. Select the required **Batch ID** from the list.
Sequential Batch	Select the check box if the Batch has to be created sequentially based on the task specified. For example, if there are 3 tasks defined in a Batch, task 3 should have precedence as task 2, and task 2 should have precedence as task 1.

4. Click **Save** to save the Batch definition details.

The new Batch definition details are displayed in the *Batch Name* section of *Batch Maintenance* window with the specified **Batch ID**.

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

E

List of Hard-Coded Members

List of Hard-Coded Members

Following are the dimension members that are hard-coded within the application:

Table Name	Column Name	Expected Values
DIM_CUSTOMER_TYPE	V_CUST_CATEGORY	C
FCT_CRM_ACCOUNT_SUMMARY	V_SCENARIO_CODE	PLAN, BUDGET
FCT_OPPORTUNITY_ACTIVITY	V_ACTIVITY_STATUS	O, C
DIM_BANDS	V_BAND_TYPE	AGEONBOOK TURNOVER
FCT_ACCOUNT_PROFITABILITY	N_REP_LINE_CD	98000 - Net Income Before Taxes 98500 - Tax Expense 99000 - Net Income After Taxes 107100 - Number of Customers 107130 - Number of Open Customers

Table Name	Column Name	Expected Values
		107200 - Number of Accounts 107230 - Number of Open Accounts 107300 - Attrition Rate