Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack

User Guide

Release 8.0.3.1.0

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Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration User Guide, Release 8.0.3.1.0

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ABOUT THE GUIDE

This section provides a brief description of the scope, the audience, the references, concepts and the organization of the user guide and conventions incorporated into the user guide. The topics in this section are organized as follows:

- Scope of the Guide
- Intended Audience
- Documentation Accessibility
- Related Information Sources
- How This Guide is Organized
- <u>Conventions Used</u>

SCOPE OF THE GUIDE

The objective of this user guide is to provide a comprehensive working knowledge on Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack, Release 8.0.3.1.0. This user guide is intended to help you understand the key features and functionalities of Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack (Oracle Financial Services Data Foundation (OFSDF) Interface with Lombard Risk for US FED) release 8.0.3 and details the process flow and methodologies used.

INTENDED AUDIENCE

Welcome to Release 8.0.3.1.0 of the Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack User Guide.

This guide is intended for:

- Regulatory Reporting Analyst who bears the responsibility to verify and submit the results. He/She is also entrusted to maintain the dimensional values across multiple reporting requirements, maintain results area structure of Oracle Financial Services Data Foundation.
- Data Analysts, who clean, validate, and import data into the Oracle Financial Services Download Specification format, and ensure that data is populated in the relevant tables as per the specifications and executions required for regulatory reporting.
- System Administrator (SA), instrumental in making the application secure and operational and configures the user roles providing necessary access to users.

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RELATED INFORMATION SOURCES

In addition to this user guide you can refer to the following documents in the <u>OHC</u> documentation library:

- Oracle Financial Services Regulatory Reporting for US Federal Reserve Lombard Risk Integration Pack Installation Manual Release 8.0.3.1.0
- Oracle Financial Services Data Foundation User Guide Release 8.0.3
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.3
- Oracle Financial Services Analytical Applications Infrastructure User Guide Release 8.0.3 (present in this - <u>OHC</u> documentation libaray)

HOW THIS GUIDE IS ORGANIZED

The OFSDF Interface with Lombard Risk for US FED User Guide includes the following topics:

- Chapter 1: Introduction
- <u>Chapter 2: Getting Started</u>
- Chapter 3: Regulatory Reporting (REG REP) Solution Data Flow
- <u>Chapter 4: OFSAA Features</u>
- Chapter 5: Executing Run through Run Management
- <u>Chapter 6: Integrating OFSAA Processing Applications with OFS REG REP USFED</u>
- Chapter 6: Metadata Export Utility
- Chapter 7: Report Submission
- Chapter 8: Maintenance
- <u>Chapter 9: Troubleshooting Guidelines</u>

CONVENTIONS USED

Table 1 lists the conventions used in this guide.

Table 1: Conventions Used in this Guide

Convention	Meaning
Italics	Names of books, chapters, and sections as references

Convention	Meaning		
Bold	• Object of an action (menu names, field names, options, button names) in a step-by-step procedure		
	Commands typed at a prompt		
	User input		
Monospace	Directories and subdirectories		
	File names and extensions		
	Process names		
	Code sample, including keywords and variables within text		

1 Introduction

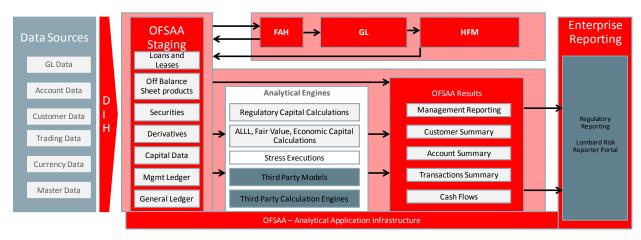
This chapter provides an understanding of the Oracle Financial Services Data Foundation (OFSDF) Interface with Lombard Risk for US FED application and its scope. It includes:

- Overview
- OFSAA Regulatory Reporting Architecture
- <u>Scope</u>

1.1 Overview

Regulatory reporting and financial services have evolved to be an inseparable combination. It has worsened since the 2008 financial crisis. Today, banks and financial institutions need to file hundreds of regulatory reports. For the U.S. Federal Reserve alone, institutions must file multiple submissions of FFIEC 101, call reports, stress testing reports, and so on. Reporting requirements increase rapidly in number and complexity for banks operating regionally or globally, where they must file in multiple jurisdictions.

The OFS REG REP US FED solution enables financial services organizations to manage and execute regulatory reporting in a single integrated environment. It automates end-to-end processes from data capture through submission with industry-leading solutions. It leverages Oracle Financial Services Analytical Application (OFSAA) and Oracle Financial Services Data Foundation (OFSDF) for managing analytical application data. The AgileREPORTER in Regulatory Reporting (REG REP) Solution enables firms to automate the final mile of the reporting process. It provides pre-built integration to Lombard Risk Reporting, eliminating the need for further manual intervention. The solution ensures data integrity allowing banks to focus more time on analyzing and gaining new business insight from their growing stores of data instead of preparing data and reports with the sole objective of meeting submission deadlines.



1.2 OFSAA Regulatory Reporting Architecture



This interface connects the Oracle FSDF to Lombard Risk. As one can see in Architecture figure above, Data flows from OFSAA to Lombard Risk.

OFSDF is an analytical data warehouse platform for the Financial Services industry. OFSDF combines an industry data model for Financial Services along with a set of management and infrastructure tools that allows Financial Services Institutions to develop, deploy, and operate analytical solutions spanning key functional areas in Financial Services, including:

- 1. Enterprise Risk Management
- 2. Enterprise Performance Management
- 3. Customer Insight
- 4. Financial Crime and Compliance Management

OFSDF is a comprehensive data management platform that helps institutions to manage the analytical data life cycle from sourcing to reporting and business intelligence/BI using a unified, consistent platform and toolset.

AgileREPORTER is a forms and workflow tool that enables both creation and submission of regulatory returns. AgileREPORTER addresses the financial reporting requirements of both domestic and international banks and financial institutions by automating compliance with mandated reports to central banks, regulatory agencies. AgileREPORTER works easily with multiple sources of information as it standardizes data elements and automates regulatory report production in prescribed templates with the associated workflow for automatic submission. It is Reliable and efficient infrastructure to compile, generate and submit regulatory reports. It collects data from a wide universe (not just OFSAA Results). It provides automated repeated manual adjustments, variance analysis and validation checks. It provides features to explain and justify a number quickly, including links to OBIEE.

The solution provides a pre-built interface or integration between FSDF and AgileREPORTER. With this integration end user can automate end to end reporting process covering data preparation to last mile of reporting.

1.3 Scope

Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack covers the following regulatory reports for specified release as mentioned in the table:

Report	Report Name	Released Version
FR Y-9C Consolidated Financial Statements for Holding Companies 8.0.1		8.0.1
FR Y-20Financial Statements for a Bank Holding Company Subsidiary Engaged in Bank-Ineligible Securities Underwriting and Dealing8.0.1		8.0.1
FR Y-15 Banking Organization Systemic Risk Report 8		8.0.1
FFIEC 009 Country Exposure Report 8		8.0.1

Table 2: Scope

Report Report Name		Released Version	
FFIEC 009 A	Country Exposure Information Report	8.0.1	
FR Y-11 Financial Statements of U.S. Nonbank Subsidiaries of U.S. Holding Companies		8.0.1	
FR Y-11 S	Abbreviated Financial Statements of U.S. Nonbank Subsidiaries of U.S. Holding Companies	8.0.1	
FR 2314	Financial Statements of Foreign Subsidiaries of U.S. Banking Organizations	8.0.1	
FR 2314 S	Abbreviated Financial Statements of Foreign Subsidiaries of U.S. Banking Organizations	8.0.1	
FR Y-14A	Capital Assessments and Stress Testing - Annual	8.0.1	
FR Y-9LP	Parent Company Only Financial Statements for Large Holding Companies	8.0.1	
FFIEC 031	Consolidated Reports of Condition and Income for a Bank with Domestic and Foreign Offices	8.0.2	
FR Y-12	FR Y-12 Consolidated Holding Company Report of Equity Investments in Nonfinancial Companies		
FFIEC 041 Consolidated Reports of Condition and Income for a Bank v Domestic Offices Only		8.0.3	
FR 2052 A	Complex Institution Liquidity Monitoring Report	8.0.3	
FR Y-7N	Financial Statements of U.S. Nonbank Subsidiaries Held by Foreign Banking Organizations	8.0.3	
FR Y-7N S	Abbreviated Financial Statements of U.S. Nonbank Subsidiaries Held by Foreign Banking Organizations	8.0.3	
FR 2644	Weekly Report of Selected Assets and Liabilities of Domestically Chartered Commercial Banks and U.S. Branches and Agencies of Foreign Banks		
FR 2900	Report of Transaction Accounts, Other Deposits, and Vault Cash (Commercial Banks)	8.0.3	
FR Y-14Q	Schedule M.1 – Balances	8.0.3	
FR Y-14Q	FR Y-14Q Schedule K – Supplemental		
FR Y-14Q	R Y-14Q Schedule A – Retail		
FR Y-14Q	R Y-14Q Schedule H – Wholesale Risk		
FR Y-14M	Capital Assessments and Stress Testing Report - Monthly	8.0.3	
FFIEC 101 Regulatory Capital Reporting for Institutions Subject to the Advanced Capital Adequacy Framework		8.0.3	

The following table lists the detailed scope.

SI. No.	Report Code	Schedule Code	Schedule Name
1	FR 2314		Financial Statements of Foreign Subsidiaries of U.S. Banking Organizations
2	FR 2314	Schedule IS	Income Statement (calendar year-to-date)
3	FR 2314	Schedule IS-A	Changes in Equity Capital
4	FR 2314	Schedule IS-B	Changes in Allowance for Loan and Lease Losses
5	FR 2314	Schedule BS	Balance Sheet
6	FR 2314	Schedule BS-A	Loans and Lease Financing Receivables
7	FR 2314	Schedule BS-M	Memoranda
8	FR 2314S		Abbreviated Financial Statements of Foreign Subsidiaries of U.S. Banking Organizations
9	FR 2052A		Complex Institution Liquidity Monitoring Report
10	FR 2644		Weekly Report of Selected Assets and Liabilities of Domestically Chartered Commercial Banks and U.S. Branches and Agencies of Foreign Banks
11	FR 2900		Report of Transaction Accounts, Other Deposits, and Vault Cash
12	FDIC 8020		Statement of Deposits
13	FR Y-7N		Financial Statements of U.S. Nonbank Subsidiaries Held by Foreign Banking Organizations
14	FR Y-7N	Schedule IS	Income Statement
15	FR Y-7N	Schedule IS-A	Changes in Equity Capital
16	FR Y-7N	Schedule IS-B	Changes in Allowance for Loan and Lease Losses
17	FR Y-7N	Schedule BS	Balance Sheet
18	FR Y-7N	Schedule BS-A	Loans and Lease Financing Receivables
19	FR Y-7N	Schedule BS-M	Memoranda
20	FR Y-7NS		Abbreviated Financial Statements of U.S. Nonbank Subsidiaries Held by Foreign Banking Organizations
21	FR Y-9C		Consolidated Financial Statements for Holding Companies
22	FR Y-9C	Schedule HI	Consolidated Income Statement
23	FR Y-9C	Schedule HI-A	Changes in Holding Company Equity Capital

Table 3: Detailed Scope

SI. No.	Report Code	Schedule Code	Schedule Name
24	FR Y-9C	Schedule HI-B	Charge-Offs and Recoveries on Loans and Leases and Changes in Allowance for Loan and Lease Losses
25	FR Y-9C	Schedule HI-C	Disaggregated Data on the Allowance for Loan and Lease Losses
26	FR Y-9C	Schedule HC	Consolidated Balance Sheet
27	FR Y-9C	Schedule HC-B	Securities
28	FR Y-9C	Schedule HC-C	Loans and Lease Financing Receivables
29	FR Y-9C	Schedule HC-D	Trading Assets and Liabilities
30	FR Y-9C	Schedule HC-E	Deposit Liabilities1
31	FR Y-9C	Schedule HC-F	Other Assets
32	FR Y-9C	Schedule HC-G	Other Liabilities
33	FR Y-9C	Schedule HC-H	Interest Sensitivity
34	FR Y-9C	Schedule HC-I	Insurance-Related Underwriting Activities (Including Reinsurance)
35	FR Y-9C	Schedule HC-K	Quarterly Averages
36	FR Y-9C	Schedule HC-L	Derivatives and Off-Balance-Sheet Items
37	FR Y-9C	Schedule HC-M	Memoranda
38	FR Y-9C	Schedule HC-N	Past Due and Nonaccrual Loans, Leases, and Other Assets
39	FR Y-9C	Schedule HC-P	1–4 Family Residential Mortgage Banking Activities in Domestic Offices
40	FR Y-9C	Schedule HC-Q	Assets and Liabilities Measured at Fair Value on a Recurring Basis
41	FR Y-9C	Schedule HC-R	Regulatory Capital
42	FR Y-9C	Schedule HC-S	Servicing, Securitization, and Asset Sale Activities
43	FR Y-9C	Schedule HC-V	Variable Interest Entities
44	FR Y-9LP		Parent Company Only Financial Statements for Large Holding Companies
45	FR Y-9LP	Schedule PI	Parent Company Only Income Statement
46	FR Y-9LP	Schedule PI-A	Cash Flow Statement
47	FR Y-9LP	Schedule PC	Parent Company Only Balance Sheet
48	FR Y-9LP	Schedule PC-A	Investments in Subsidiaries and Associated Companies
49	FR Y-9LP	Schedule PC-B	Memoranda

SI. No.	Report Code	Schedule Code	Schedule Name
50	FR Y-11		Financial Statements of U.S. Nonbank Subsidiaries of U.S. Holding Companies
51	FR Y-11	Schedule IS	Income Statement (calendar year-to-date)
52	FR Y-11	Schedule IS-A	Changes in Equity Capital
53	FR Y-11	Schedule IS-B	Changes in Allowance for Loan and Lease Losses
54	FR Y-11	Schedule BS	Balance Sheet
55	FR Y-11	Schedule BS-A	Loans and Lease Financing Receivables
56	FR Y-11	Schedule BS-M	Memoranda
57	FR Y-11S		Abbreviated Financial Statements of U.S. Nonbank Subsidiaries of U.S. Holding Companies
58	FR Y-12		Consolidated Holding Company Report of Equity Investments in Nonfinancial Companies
59	FR Y-12	Schedule A	Type of Investments
60	FR Y-12	Schedule B	Type of Security
61	FR Y-12	Schedule C	Type of Entity within the Banking Organization
62	FR Y-12	Schedule D	Nonfinancial Investment Transactions During Reporting Period
63	FR Y-14A		Capital Assessments and Stress Testing - Annual
64	FR Y-14M		Capital Assessments and Stress Testing Report - Monthly
65	FR Y-14M	Schedule A.1	Domestic First Lien Closed-end 1-4 Family Residential Loan Data Dictionary: Loan Level Table
66	FR Y-14M	Schedule A.2	Domestic First Lien Closed-end 1-4 Family Residential Loan Data Dictionary: Portfolio Level Table
67	FR Y-14M	Schedule B.1	Domestic Home Equity Loan and Home Equity Line Data Dictionary: Loan/Line Level Table
68	FR Y-14M	Schedule B.2	Domestic Home Equity Loan and Home Equity Line Data Dictionary: Portfolio Level Table
69	FR Y-14M	Schedule C.1	Address Matching Loan Level Data Collection: Data Table
70	FR Y-14M	Schedule D.1	Domestic Credit Card Data Collection Data Dictionary: Loan Level Table
71	FR Y-14M	Schedule D.2	Domestic Credit Card Data Collection Data Dictionary: Portfolio Level Table
72	FR Y-14Q	Schedule A.1	International Auto Loan
73	FR Y-14Q	Schedule A.2	US Auto Loan

SI. No.	Report Code	Schedule Code	Schedule Name
74	FR Y-14Q	Schedule A.3	International Credit Card
75	FR Y-14Q	Schedule A.4	International Home Equity
76	FR Y-14Q	Schedule A.5	International First Lien Mortgage
77	FR Y-14Q	Schedule A.6	International Other Consumer Schedule
78	FR Y-14Q	Schedule A.7	US Other Consumer
79	FR Y-14Q	Schedule A.8	International Small Business
80	FR Y-14Q	Schedule A.9	US Small Business
81	FR Y-14Q	Schedule A.10	Student Loan
82	FR Y-14Q	Schedule H	Wholesale Risk
83	FR Y-14Q	Schedule H.1	Corporate Loan Data Schedule
84	FR Y-14Q	Schedule H.2	Commercial Real Estate Schedule
85	FR Y-14Q	Schedule K	Supplemental
86	FR Y-14Q	Schedule M.1	Balances
87	FR Y-15		Banking Organization Systemic Risk Report
88	FR Y-15	Schedule A	Size Indicator
89	FR Y-15	Schedule B	Interconnectedness Indicators
90	FR Y-15	Schedule C	Substitutability Indicators
91	FR Y-15	Schedule D	Complexity Indicators
92	FR Y-15	Schedule E	Cross-Jurisdictional Activity Indicators
93	FR Y-15	Schedule F	Ancillary Indicators
94	FR Y-15	Schedule G	Short-Term Wholesale Funding Indicator
95	FR Y-20		Financial Statements for a Bank Holding Company Subsidiary Engaged in Bank-Ineligible Securities Underwriting and Dealing
96	FFIEC 009		Country Exposure Report
97	FFIEC 009	Schedule C, Part I	Claims on an Immediate Risk Basis
98	FFIEC 009	Schedule C, Part II	Claims on an Ultimate Risk Basis and Memorandum Items
99	FFIEC 009	Schedule L	Foreign-Office Liabilities
100	FFIEC 009	Schedule O	Off-Balance-Sheet Items

SI. No.	Report Code	Schedule Code	Schedule Name
101	FFIEC 009	Schedule D	Claims from Positions in Derivative Contracts
102	FFIEC 009A		Country Exposure Information Report
103	FFIEC 031		Consolidated Reports of Condition and Income for a Bank with Domestic and Foreign Offices
104	FFIEC 031	Schedule RI	Income Statement
105	FFIEC 031	Schedule RI-A	Changes in Bank Equity Capital.
106	FFIEC 031	Schedule RI-B	Charge-offs and Recoveries on Loans and Leases and Changes in Allowance for Loan and Lease Losses
107	FFIEC 031	Schedule RI-C	Disaggregated Data on the Allowance for Loan and Lease Losses
108	FFIEC 031	Schedule RI-D	Income from Foreign Offices
109	FFIEC 031	Schedule RI-E	Explanations
110	FFIEC 031	Schedule RC	Balance Sheet
111	FFIEC 031	Schedule RC-A	Cash and Balances Due from Depository Institutions
112	FFIEC 031	Schedule RC-B	Securities
113	FFIEC 031	Schedule RC-C, Part I	Loans and Leases
114	FFIEC 031	Schedule RC-C, Part II	Loans to Small Businesses and Small Farms
115	FFIEC 031	Schedule RC-D	Trading Assets and Liabilities
116	FFIEC 031	Schedule RC-E	Deposit Liabilities
117	FFIEC 031	Schedule RC-F	Other Assets
118	FFIEC 031	Schedule RC-G	Other Liabilities
119	FFIEC 031	Schedule RC-H	Selected Balance Sheet Items for Domestic Offices
120	FFIEC 031	Schedule RC-I	Assets and Liabilities of IBFs
121	FFIEC 031	Schedule RC-K	Quarterly Averages
122	FFIEC 031	Schedule RC-L	Derivatives and Off-Balance-Sheet Items
123	FFIEC 031	Schedule RC-M	Memoranda
124	FFIEC 031	Schedule RC-N	Past Due and Nonaccrual Loans, Leases, and Other Assets
125	FFIEC 031	Schedule RC-O	Other Data for Deposit Insurance and FICO Assessments
126	FFIEC 031	Schedule RC-P	1–4 Family Residential Mortgage Banking Activities in Domestic Offices

SI. No.	Report Code	Schedule Code	Schedule Name
127	FFIEC 031	Schedule RC-Q	Assets and Liabilities Measured at Fair Value on a Recurring Basis
128	FFIEC 031	Schedule RC-R, Part I	Regulatory Capital Components and Ratios
129	FFIEC 031	Schedule RC-R, Part II	Risk-Weighted Assets
130	FFIEC 031	Schedule RC-S	Servicing, Securitization, and Asset Sale Activities
131	FFIEC 031	Schedule RC-T	Fiduciary and Related Services
132	FFIEC 031	Schedule RC-V	Variable Interest Entities
133	FFIEC 041		Consolidated Reports of Condition and Income for a Bank with Domestic Offices Only
134	FFIEC 041	Schedule RI	Income Statement
135	FFIEC 041	Schedule RI-A	Changes in Bank Equity Capital
136	FFIEC 041	Schedule RI-B	Charge-offs and Recovers on Loans and Leases and Changes in Allowance for Loan and Lease Losses
137	FFIEC 041	Schedule RI-C	Disaggregated Data on the Allowance for Loan and Lease Losses
138	FFIEC 041	Schedule RI-E	Explanations
139	FFIEC 041	Schedule RC	Balance Sheet
140	FFIEC 041	Schedule RC-A	Cash and Balances Due from Depository Institutions
141	FFIEC 041	Schedule RC-B	Securities
142	FFIEC 041	Schedule RC-C	Loans and Lease Financing Receivables
143	FFIEC 041	Schedule RC-D	Trading Assets and Liabilities
144	FFIEC 041	Schedule RC-E	Deposit Liabilities
145	FFIEC 041	Schedule RC-F	Other Assets
146	FFIEC 041	Schedule RC-G	Other Liabilities
147	FFIEC 041	Schedule RC-K	Quarterly Averages
148	FFIEC 041	Schedule RC-L	Derivatives and Off-Balance-Sheet Items
149	FFIEC 041	Schedule RC-M	Memoranda
150	FFIEC 041	Schedule RC-N	Past Due and Nonaccrual Loans, Leases, and Other Assets
151	FFIEC 041	Schedule RC-O	Other Data for Deposit Insurance and FICO Assessments

SI. No.	Report Code	Schedule Code	Schedule Name
152	FFIEC 041	Schedule RC-P	1–4 Family Residential Mortgage Banking Activities in Domestic Offices
153			Assets and Liabilities Measured at Fair Value on a Recurring Basis
154	FFIEC 041	Schedule RC-R	Regulatory Capital
155	FFIEC 041	Schedule RC-S	Servicing, Securitization, and Asset Sale Activities
156	FFIEC 041	Schedule RC-T	Fiduciary and Related Services
157	FFIEC 041	Schedule RC-V	Variable Interest Entities
158	FFIEC 101		Regulatory Capital Reporting for Institutions Subject to the Advanced Capital Adequacy Framework

2 Getting Started

This chapter provides an understanding of the pre-requsites, general and data preparation assumptions and logging into the application. It includes:

- Prerequisites
- <u>Assumptions</u>
- Logging in to the OFSDF Interface with Lombard Risk for US FED
- Organization of the Interface for User Roles
- Metadata Browser

OFSDF interface with Lombard Risk for US FED allows you to perform the following activities:

- Manage Data Loading and Transformation from various source systems to staging, processing, and results.
- Manage relevant OFSAA metadata for regulatory reporting purpose. This includes creating, modifying, and viewing the metadata used in reporting.
- View the report metadata for mapping.
- Drill down from AgileREPORTER to OFSAA results area.

2.1 Prerequisites

The prerequisites are:

- Oracle Financial Services Analytical Applications Infrastructure (AAI) is deployed and configured.
- Oracle Financial Services Data Foundation is deployed and configured.
- Processed data required for reports as per the release scope.
- Ensure that the report templates for AgileREPORTER **RPforFED_v1.6.1.6.zip** is available in the AgileREPORTER.
- Ensure that AgileREPORTER version 1.14 is installed.
- Knowledge of working with regulatory reports.

2.2 Assumptions

OFSDF interface with Lombard Risk for US FED is a reporting application and it does not perform any risk/stress calculations. Following listed are the assumptions for the application:

- Textual and other related portions of reports like person details, contact details, Yes / No choices must be updated on Report Portal directly and FSDF does not have placeholder for it.
- Data provided is post reconciliation to ensure that accuracy of data being reported (nonprescribed by regulators) are performed in OFSAA using various components – General Ledger (GL) reconciliation.

- Validity checks such as edit checks, cross-validation checks and so on prescribed by regulator are performed within the AgileREPORTER.
- All monetory amounts are expected to be positive in number, except valuation outputs which can be positive or negative. Rules are constructed assuming the negative sign of valuation amounts wherever applicable.
- The application populates few specific dimension tables, known as seeded / sample tables as part of the installation script. Since they are used in the metadata, changes in data values have impact on the overall functioning.
- All percentage data are expected in decimal format meaning 9% must be provided as 9 and not 0.09.
- For a data provided as of date, such as last day of the quarter of the reporting year: Quarterly and Year to Date (YTD) report for the given date displays same value for those measures which are of as of date in nature. For example, Annual and Quarterly Balance Sheet and BASEL reports generated as of 31-MAR show same values for all measures such as Account Balance.
- Account Balances such as End of Period Balances are expected to be provided as Net of (without) Unearned Income.
- In FR2052 A, for PIDs I.O.9 and 0.0.22 there is no OOTB rule provided by OFSAA to identify these PIDs. The accounts which must be reported under PIDs is purely Reporter's Discretion. So a Custom Rule can be built by the user to report these PIDs.
- Reporting currency identification in FR2052 A must be done by populating setup_master table, in which V_COMPONENT_CODE = 'ENTITY_REPORTING_CD' that is defaulted to 'N', must be changed to 'Y' if the Reporting entity has greater than \$700 billion in total consolidated assets and greater than \$10 trillion in assets under custody.
- Data load for FR Y-14M Report must include all the loans closed from the previous month.

2.3 Logging in to the OFSDF Interface with Lombard Risk for US FED

After the application is installed and configured, to access the OFSDF Interface with Lombard Risk for US FED application you need to log into OFSAAI environment using the OFSAAI login page.

To access application follow these steps:

1. Enter the OFSAAI URL in your browser. The OFSAAI login page is displayed.

ORACLE	Financial Services Analytical Applications About
	Language US-English User ID Image: Image

Figure 2: OFSAAI Log in

- 2. Select the desired language from the Language drop-down list.
- 3. Enter your **User ID** and **Password**. When you log into OFSAAI, the first screen is dsplayed.

	Analytical Applications	🛗 🔻 🤽 🔻 US-English 🔍 RROFUSER 🖲
Applications Object Administration System Configura	on & Identity Management	
Select Applications Financial Services Data Foundation	Financial Services Data Foundation Financial Services Data Foundation	
Bata Model Management Bata Management Framework EU Unified Analytical Metadata Dimension Management	Data Model Management Manage Data Model	Data Management Framework Manage Date movement using framework for Date Management Auto Run Framework
✓ 100 Business Metadata Management ④ Alias ♥ Derived Entity ■ Dataset	Define and maintain analytical metadata definitions	Framework to represent simple and complex business logic in to Rules, Process and Imparadigms Settings Settings
K Measure Build Hierarchy Dimension	Metadata Browser Browse metadata lineage	
Map Maintenance		
Save Metadata		
Settings Metadata Browser		

Figure 3: Landing Page

2.4 Organization of Interface for User Roles

This section explains the various features used by a analyst. It describes the organization of the user interface and provides step-by-step instructions for navigating through the application to carry out these activities.

Data Analysts are expected to perform the following activities:

- 1. Marking Run as Final
- 2. Executing Batch to Refresh Derived Entities
- 3. Drill Down from AgileREPORTER to OFSDF

Reporting Analyst are expected to perform the following activities:

- 1. Drill Down from AgileREPORTER to OFSDF
- 2. Using Metadata Browser to check Schedule Wise metadata
- 3. Using Metadata Browser to check metadata usage across schedules

2.4.1 Marking Run as Final

Various applications provide data for regulatory reporting. You must mark specific executions for regulatory reporting as final run.

	al Applications			🛗 🔻 🏋 🔻 US-English 🕷 OFSAD 🖲
Applications Object Administration System Configuration & Identit	ty Management My Inbox			
Select Applications	Financial Services Data Foundation > I	Run Management > Run Management		
Financial Services Data Foundation		Run Manager	ment Summary	
 Financial Services Data Foundation B Data Model Management 	* Search			
Data Model Management Framework	Segment	FSDFSEG V	Run Name	
E Unified Analytical Metadata Management Management	Run Type			
Run Management Run Management			≣\$¢% ₹	0 to 0 of 0 행 행 한 한
Operations	No Records to Display			
Settings Metadata Browser				

Figure 4: Run Management Summary Screen

					Rur	n Executio	ion Summary						
Run Na	ame		US FED Run	15			Run ID		14657984	54268			
Run Type BASELINE RUN													
* Rui	n Execution Deta	Is							💼 🖏 🔂 🖄	🕗 🖬 🛛 👻		1 to 1 of 1 😒	
	Run Skey 🛛 🗸	Run Execution	ld	FIC MIS DATE	Execution Status	Executi	tion Date	Time of Execution	Reportin	Approve Repo	- Concription		
V	127004	146579871047	9	06/30/2013	COMPLETE	06/13/2	2016	11:48:30		Approve Kepo	14657	8454268_Descr	iption
	porting Flag Deta	15											
Repo	rting flag Status	Is											
Repo Requ	eting flag Status rested By	Is											
Repo Requi	ested By ested Date	Is											
Repo Requi Requi	eting flag Status ested By ested Date estor Comments	Is											
Requi Requi Requi Requi	ested By ested Date	Is											

Figure 5: Run Management Summary Screen

2.4.2 Executing Batch to Resave Derived Entities

To execute the batch to refresh derived entities, follow the below steps:

- 1. Navigate to Financial Services Data Foundation → Operations → Batch Execution
- Select the batch <<INFODOM>>_USFED_FFIEC031_RESAVEDE to resave all the DEs used in FFIEC031.
- Similarly "<<INFODOM>>_USFED_FR2314_RESAVEDE", "<<INFODOM>>_USFED_FRY11_RESAVEDE" can be used to resave DEs related to 2314,11 respectively.

Figure 6: Batch Maintenance Screen

- 4. Monitor status of the batch using **Batch Monitor** link.
- 5. The batches available for this release are:
 - a. batch_resave_de_usfed_ffiec031

This batch saves the Derived Entities of FFIEC 031 report.

b. batch_resave_de_usfed_fr2314

This batch saves the Derived Entities of FR 2314 report.

c. batch_resave_de_usfed_fry11

This batch saves the Derived Entities of FR Y-11 report.

d. batch_resave_de_usfed_fry2052a

This batch saves the Derived Entities of FR 2052A report.

e. batch_resave_de_usfed_fry2644

This batch saves the Derived Entities of FR 2644 report.

f. batch_resave_de_usfed_fry2900

This batch saves the Derived Entities of FR 2900 report.

g. batch_resave_de_usfed_fdic_8020

This batch saves the Derived Entities of FDIC 8020 report.

h. batch_resave_de_usfed_fry9C

This batch saves the Derived Entities of FR Y-9C report.

i. batch_resave_de_usfed_fry14m

This batch saves the Derived Entities of FR Y-14M report.

j. batch_resave_de_usfed_fry14q_H1H2

This batch saves the Derived Entities of FR Y-14Q_H1H2 report.

2.4.3 Logging to AgileREPORTER to Retrieve the Returns

The Retrieve Return functionality in AgileREPORTER fetches data from OFSAA derived entities and embeds them on AgileREPORTER templates. This runs the decision table process in Lombard Risk. You can view the relevant OFSAA data on various schedules of the AgileREPORTER using this functionality.

Lombard Risk	Dashboa	rd								Job Manage	r 🖂	XBRL Checker	r hi rpadmin	° 0
				Show Del	eted Returns	Delete Return Log	Create New	C	Import adjustments 🚽 👻	Export To Regul	ator Format	Export d	Retrieve Retur	m
Regulator : US FED Reserve	٣	ENTITY	RETURNS \$	VERSION \$	REFERENCE DATE	JOB STATUS	WORKFLOW STATUS	UPDATE	APPROVAL	EDITIONS	TRANSMISSION	MODIFIED \$	MODIFIED B	Y ¢
Catile.		US	FFIEC031	4	30/09/2013	R ()		C Update	NO ATTESTATION NEEDED	Manage Editions		12/09/2016 11:21:5	9 RPADMIN	Ê
Entity US	Ŧ	US	FFIEC041	4	30/09/2013	0		Update	NO ATTESTATION NEEDED	Manage Editions		14/09/2016 12:01:4	5 RPADMIN	Î
		US	FRY9C	2	30/09/2013	0		Update	NO ATTESTATION NEEDED	Manage Editions		08/09/2016 11:41:0	4 RPADMIN	ŵ
Form	Ŧ					Details	ve Return	1 , , , , , , , , , , , , , , , , , , ,	15 🔻					
Available date	¥					Entity US Referen		• •						

Figure 7: Retrieve Returns Page

2.4.4 Report Verification - Drill Down from AgileREPORTER to OFSAA Results Area

Drill down functionality enables the user to view the accounts included in the aggregation. Following these steps to drill down from AgileREPORTER to OFSAA:

1. Log in to the AgileREPORTER.



Figure 8: AgileREPORTER Login page

2. The user can view the list of reports in the main page. Click any report name in the Returns column, for example, **FRY9C**.

Lombard Risk	Dashboa	rd								Job Manag	er 🖂	XBRL Checker	+ hi rpadmin	* 0
				Show Del	eted Returns	Delete Return Log	Create New	C	Import adjustments		ulator Format	Export	Retrieve Ret	um
Regulator : US FED Reserve	٠	ENTITY	RETURNS \$	VERSION \$	REFERENCE DATE	JOB STATUS	WORKFLOW STATUS	UPDATE	APPROVAL	EDITIONS	TRANSMISSION	MODIFIED \$	MODIFIED	вү≎
		US	FFIEC031	4	30/09/2013	0		Update	NO ATTESTATION NEEDE	D G Manage Editions		12/09/2016 11:21:5	9 RPADMIN	Û
Entity US	•	US	FFIEC041	4	30/09/2013	® ()		C Update	NO ATTESTATION NEEDE	D Granage Editions		14/09/2016 12:01:4	15 RPADMIN	ŵ
Form		US	FRY9C	2	30/09/2013	® ()		Update	NO ATTESTATION NEEDE	D G Manage Editions		08/09/2016 11:41:0	4 RPADMIN	Û
All	•						14	1 -> ->	15 🔻					
Available date	¥													

Figure 9: AgileREPORTER Main Page

3. The schedule list is displayed in the left hand side. Click any schedule name, for example **Schedule HC-E**.

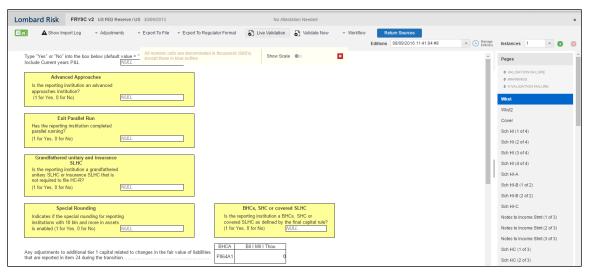


Figure 10: AgileREPORTER Page Displaying List of Schedules

4. Click any cell to drill down.

			Editions	11/11/2015 13:11:59:#1	* () Marage Ins	stances 1 -	0
This return is out of	Andre Millioner	Waters Courses?				Notes to income Str	mt (3 of 3)
This return is out of (sale. View		FR Y-9C		^	Sch HC (1 of 3)	
			Page 26 of 65			Sur HG (1 01 3)	
						Sch HC (2 of 3)	
Schedule HC-E-Deposit Liabilities1						Sch HC (3 of 3)	
						Sch HC-B (1 of 3)	
Dollar Amounts in Thousands	BHCB	Bit I MI I Thou					
 Deposits held in domestic offices of commercial bank subsidiaries of the reporting holding company: 						Sch HC-B (2 of 3) Sch HC-B (3 of 3)	
a. Noninterest-bearing balances2	2210	333,220	1.8.			Sch HC-B (3 of 3)	
b. Interest-bearing demand deposits, NOW, ATS, and other transaction accounts	3187	415,690				Sch HC-C (1 of 4)	
c. Money market deposit accounts and other savings accounts	2389	543,900	1.c.			Sch HC-C (2 of 4)	
d. Time deposits of less than \$100,000	6648	640,000	1.d.			500 H0-0 (2 014)	
e. Time deposits of \$100,000 or more	2604	671,850	1.0.			Sch HC-C (3 of 4)	
2. Deposits held in domestic offices of other depository institutions that are subsidiaries of I						Sch HC-C (4 of 4)	
reporting holding company:	BHOD					opinio o (a ora)	
a. Noninterest-bearing balances2	3189	328,560				Sch HC-D (1 of 3)	
b. Interest-bearing demand deposits, NOW, ATS, and other transaction accounts	3187	673,560	2.b.			Sch HC-D (2 of 3)	
c. Money market deposit accounts and other savings accounts	2389	958,202	2.c.				
d. Time deposits of less than \$100,000	6648	673,816				Sch HC-D (3 of 3)	
e. Time deposits of \$100,000 or more	2604	580,925	2.0			HC-E&F	
						Sch HC-G & H	
/emoranda						Sch HC-I	
Dollar Amounts in Thousands		Bit Mil Thou					
1. Brokered deposits less than \$100,000 with a remaining maturity of one year or less	A243	1,999,578				Sch HC-K	
2. Brokered deposits less than \$100,000 with a remaining maturity of more than one year	A164	680,618	M.2.			Sch HC-L (1 of 4)	

Figure 11: AgileREPORTER Schedule Details Page

5. Figure 12 displays drill down for the first cell in Column A. The OFSAA icon is displayed. It provides information about the amounts against different MDRM codes here. In the figure, the first MDRM code – BHCB 2210 indicates the amount of deposits held by the bank that are of non-interest bearing variant. Click the cell, and the OFSAA icon, to view how this cell was populated from OFSAA results. You are redirected to the OFSAA drill down page.

			Editions	11/11/2015 1	3.11.59#1	* C Marag	Instance	s 1	- 0	0
							N	stes to Incor	me Stimt (3 of	(3)
							8	th HC (1 of	3)	
							s	th HC (2 of	3)	
Schedule HC-E-Deposit Liabilities1							s	th HC (3 of)	3)	
							s	ti HC-8 (1 i	of 3)	
							s	th HC-8 (2)	of 3)	
holding stormary	6332	90	direct ce	17	-		s	h HC-8 (3 i	of 3)	
Manmarkit Learning Susanness Million African States and States Termanities and OFSAA	1107	415,600	direct ce	TT EGTC	0		s	sh HC-C (1)	of 4)	
 therey marked depend accounts and effort samiga accounts. 							0	th HC-C (2)	ana l	
 Term dispersits of \$220,800 to more 							8	th HC-C (3)	of 4)	
							8	th HC-C (4)	of 4)	
							9	th HC-D (1)	(C 3c	
								th HC-D (2)		
							5	31 HC-D (21	or 3)	
							S	th HC-D (3)	(E 1a	
 Time accords of \$100 100 in menu 			2.8				11	CESE		
							9	th HC-G & H	()	
Remoranda Dutar Armana In Transm							s	th HC-I		
								th HC-K		
							~		226	
		1000					5	th HC-L (1 c	n al	

Figure 12: AgileREPORTER Drill Down

6. This cell is populated from the derived entity mentioned in the grid header *DE – Deposit Liabilities – Schedule HC-E*. The value in the derived entity grid 333,220.00 must match with that of the cell in the report. Derived entity is an aggregate built on top of OFSAA results model to serve regulatory template requirements. It is built using dimensions, measures and business processors. The dimensions that participates in determining the cell value is displayed with data. Click the derived entity link in the grid header.

		Data L	ineage		
Run Execution Id	4		Date	04 Jan 2011	
Legal Entity	US		Reference Identifier	BHCB2210	
Toe Vew					
» Derived Entity : <u>DE - Deposit</u>		(1) Non Interest bearing deposit			Lop Balance RCY - Deposits
eography - Branch Country	Deposit Type Hierarchy	Non Interest bearing deposit Hierarchy	Depository institution flag - DOS	Entity Type Hierarchy	Borrowings
US	00	Y	Y	BANSUB	333,220,00

Figure 13: Data Trace Browser/ OFSAA Report Drill-down Screen

7. Derived entity details are displayed in the Metadata Browser within the page. Scroll to view complete details such as Datasets, Hierarchies, Measures and so on. Click the measure value in the derived entity row, for example **333,220.00**.

	Data Lin	eage		
Run Execution Id	a	Date	04 Jan 2011	
Legal Entity		Reference Identifier	BHC82210	
The Ver				
Derived Entity : <u>DL - Deposit Liabilit</u> leography - Brand	ties - Schedule HC-E (1)	X Entity 1	vpe Hierarchy Cop Bal	ance RCY - Deposits
us	Derived Entity	BANSI	DOUTOW	333.220.00
S Details Statistics Au v Derived Entity Propert Name Source Type Aggregate flag Materiatzed Verw	E- Deposit Liabilities - Folder Chedule HC-E add Trail ties (3) Value 0 3 3 73 73 0 0 0 0 0 0 0 0 0 0 0 0 0			

Figure 14: Derived Entity MDB View

8. Double-click any figure in the screen to drill-down to the fact tables. The below grid displays the detailed granular rows of fact data that comprises the derived entity aggregate. The number 333220 is now seggregated down to 10 records with different balances. Scroll to the right in second grid to view measure values.

				Data Lineage				
Run Execution Id	-1			Date		04 Jan 2011		
Legal Entity				Referenc	e Identifier	BHCB2210		
ee Verw								
Derived Entity : DE - I	Deposit Liabilities - Sch							
eography - Branch Country	Deposit Type Hier		Interest bearing depos rarchy	Depository	institution flag - DOS	Entity Type Hierarchy	Eop Balance RCY Borrowings	- Deposits
s	DD	Y		Y		BANSUB		333,220.00
°. Dataset : <u>DS - Depos</u> i	it Liabilities - Schedule	<u>HC-E</u> (10)	<u>80</u>	Optimized and the second se				
Band Short Description	Entity Type Description	Branch Description	Legal Entity Code	Product Name ERM	Deposit type descriptio	n Run Main Description	Band Surrogate Key	Calendar Date
MISSING	Bank subsidiaries	Branch US3	US	NTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	Branch US3	US	INTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	Branch US3	US	INTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	Branch US3	US	NTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	Branch US3	US	INTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00.0
MISSING	Bank subsidiaries	Branch US1	US	NTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	Branch US1	US	NTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00.0
IISSING	Bank subsidiaries	Branch US1	US	NTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00.0
(Concern								
ISSNG	Bank subsidiaries	Branch US1	US	INTBEABAL	Demand deposits	Baseline	1	2011-01-04 00:00:00:00

Figure 15: Drill Down Page

9. Click Attribute Selector icon on the header of the second grid.

				Data Line	age							
Run Execution Id Legal Exity	1	8 Search		٩								
		S Attribute	Selector									
B.		Available Afrikula				Selected	Athrbutes				_	
Derived Entity : DE eography - Branch Countr (5	Deposit Lisbilities - Sc x Deposit Type He D0	E)- Dataset En E- Deposits E- Organizat E- Geograph E- Data Orig	thes and Borrowings fon Structure Dimen		-	Entity Typ Branch De Legal Entit E+ Product N	ty Code			^	ce RCY S25	- Deposits 272,220.00
· Dataset : DS - Depos	it Liabilities - Schedule		Igin Dimension Rec Igin Dimension Edu			+ Run Main I	Description					
Band Short Description WISSING	Entity Type Description Bank subsidiaries	Data Origin Dimension Latest Record Indicator Data Origin Dimension Data Source Code Data Origin Dimension Data Source Name				Calendar (Band Surrogate Key Calendar Date Entity Type Surrogate Key				a.Kex	2011-01-04 00:00:00:0
MSSNG	Bank subsidiaries	L- Data Or		Source Description	5		Branch Surrogate Key Depository Institution Flag					2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	E-Run Dime			Legal Entity Surrogate Key Non Interest Bearing Deposit Flag						L	2011-01-04 00:00:00.0
MESNG	Bark subsidiaries	E- Dimensio			~		ist Bearing Dep pe surrogate k	and the second se		~	1	2011-01-04 00:00:00.0
MISSING	Bank subsidiaries	1	(CENTRONIC ALCORATION	richin.	-	K Cancel	10.00					2011-01-04 00:00:00.0
MSSNO	Dank subsidiaries	Branch US1	US	INTBEABAL	0.5	Demand Sepos	čs .	Baselive	1	-		2011-01-04 00:00:00:0
MISSING	Dark subsidiaries	Branch US1	us	INTREABAL		Demand depos	its .	Baseline				2011-01-04
MISSING	Bank subsidiaries	Brench US1	üś	INTREABAL		Demand depos	its.	Baseline	t			2011-01-04
MSSNG	Dank subsidiaries	Branch US1	us	INTBEABAL		Demand depos	its	Baseine	1			2011-01-04
1055NG	Tank subalitarias	Brench USS	ius.	NTRF 4A41		Demand depos	ita .	Baseine				2011-01-04

Figure 16: Drill Down Attribute Selector 1

	61	B Search								
Legal Entity	US .			Q.						
		B- Attribute 1	lelector							
E.		1				Selected Atributes			1	
 Derived Entity : <u>QE - 1</u> courachy - Branch Country /5 	Contraction of the second s	- Account Account	Oimension Original Dimension Original	I Net Operating Income Ible Leg Account Skey	^	Band Short Description Entity Type Description Branch Description			^ (c. 0)	CY - Deposits
" Dataset : DS - Deposi	it Liabilities - Schedule	- Account Account Account	Dimension Asset Io	tentifier Code Hidentifier Type Code Manager Code	6	Deposit type descript				
Band Short Description	Entity Type Description	- Account	Dimension Asset T Dimension Applica Dimension Area Co	son Number		Band Suntogete Key Celender Date			e Ken	Calendar Date
MISSNO	Bark subsidiaries	- Account	Dimension Athlion Dimension Benchn Dimension Block G	nam identifier		Ently Type Surrogale Branch Surrogale Ke Depository Institution	a,		U:	00.00.00.0 2011-01-04 00:00:00.0
MISSING	Bank subsidiaries	- Account	Dimension Branch	Code		Legal Entity Surrogat Non Interest Bearing	e Key			2011-01-04 00:00:00.0
MISSING	Bank subsidiaries	- Account	Dimension Campa Dimension Current	cy Code	~	Deposit type surroga			~	2011-01-04 00:00:00.0
MSSNG	Bank subsidiaries	1 Arrount	Olmension Cansul	Lavel Code		Cancel				2011-01-04 00:00:00.0
MISSING	Bank subsidiaries	Branch US1	US	NTREARAL	1. UK	Demand deposits	Baseline		_	2011-01-04 00:00:00:0
MSSNO	Bank subsidiaries	Branch US1	us	INTREABAL		Demand deposits	Baseine	а.		2011-01-04 00:00:00.0
MISSING	Bank subsidiaries	Branch US1	US	INTREABAL		Demand deposits	Besokie	1		2011-01-04 00:00:00:0
MISSING	Bank subsidiaries	Branch US1	US	NTREABAL		Demand deposits	Baseline	1		2011-01-04 00:00:00.0
MISSING	Bark subsidiaries	Branch US1	1/5	NTBEABAL		Demand deposits	Baselite	1		2011-01-04

10. Expand Data Origin Dimension and select Data Source name. Click OK.

Figure 17: US FED Drill Down Attribute Selector 2

11. If account number is required, scroll and expand the account dimension. Select **account number/contract code** and click **OK**. Data source and account / contract code is displayed in the drill down grid.

Run Execution Id	-1			Date		04 Jan 2011		
Legal Entity				Reference	e Identifier	BHCB2210		
New York								
Derived Entity : <u>DE - De</u> leography - Branch Country	Deposit Type His	Mars In	terest bearing deposit	Depository	institution flag - DOS	Entity Type Hierarchy	Eop Balance RCY - 0 Borrowings	eposita
US	DD	Y		Y		BANSUB	DOLLOW HIME	333,220.00
				(
Dataset : DS - Deposit	Liabilities - Schedule	NC-E (10)	90					
Account / Contract Code	Band Surrogate Key	Band Short Description	Data Source Name	Calendar Date	Entity Type Surrogate Key	Entity Type Description	Branch Surrogate Key	Branch Descript
22000001	1.00	MISSING	Flexcube	2011-01-04	13	Bank subsidiaries	43	Branch US1
22000002	1.00	MISSING	Flexcube	2011-01-04 00:00:00.0	13	Bank subsidiaries	43	Branch US1
22000003	1.00	MISSING	Flexcube	2011-01-04 00:00:00 0	13	Bank subsidiaries	43	Branch US1
22000004	1.00	MISSING	Flexcube	2011-01-04 00:00:00 0	13	Bank subsidiaries	43	Branch US1
22000005	1.00	MISSING	Hogan	2011-01-04 00:00:00 0	13	Bank subsidiaries	43	Branch US1
22000006	1.00	MISSING	Hogan	2011-01-04 00:00:00.0	13	Bank subsidiaries	45	Branch US3
22000007	1.00	MISSING	Hogan	2011-01-04 00:00:00.0	13	Bank subsidiaries	45	Branch US3
22000008	1.00	MISSING	Hogan	2011-01-04 00:00:00 0	13	Bank subsidiaries	45	Branch US3
22000009	1.00	MISSING	Hogan	2011-01-04 00:00:00 0	13	Bank subsidiaries	45	Branch US3
	1.00	MISSING	Flexcube	2011-01-04 00:00:00.0	13	Bank subsidiaries	45	Branch US3
<								>

Figure 18: Drill Down - Granular

2.5 Metadata Browser

This section helps you to navigate through Metadata Browser and guides you in tracing the source of the metadata. The Metadata Browser function allows you to view and analyze all aspects of the metadata used in the OFSAAI. It provides extensive browsing capabilities of metadata, helps in tracking the impact of changes to metadata, and trace through to the source of originating data.

Metadata Browser (Object and Application View) provides common repository of metadata objects created in OFSAAI and applications hosted in OFSAAI. Using this view, you can identify the usage of base objects in higher level objects and the mapping of Objects to Application, thus enabling traceability. It also allows you to view the data flow and the work flow of the application and understand the usage of objects within the application.

The new visualization of Metadata Browser (MDB) supports Application view and Object view. In Application view, you can browse through the metadata created using the applications hosted in OFSAAI. In object view, you can view the metadata created in OFSAAI.

To access the Metadata Browser (Object and Application View), your role must be mapped to the SCR_MDB function.

Analysts review the metadata used for a particular report schedule to verify the data. Data verification may require looking for metadata used in given schedule or it can be schedules in which particular metadata is used. Data Analysts and Reporting Analysts perform the report verification. Metadata refers to business measures, hierarchies, data sets, derived entities used for a given schedule.

To use MDB for schedule wise metadata, and to use MDB for metadata wise schedule follow the below steps.

- 1. To use MDB for schedule wise metadata, for a given schedule, identify the metadata used.
 - a) User can verify the data for related data elements in results using this information. Navigate to path *Objects* → *OFSAA Data Model* → *Reporting Metadata* → *Reports*. The Left Hand Side (LHS) displays the list of reports. For example, Figure 19 refers to *HC-E Schedule* of FRY9C report.

		Last Executed Date : 17-	Nov-2015 12:09:29 User : rrdfuser Connected To : OFSFSDFINFO
Application Object	Reporting Metadata > Reports > HC-E	Report	R
🗄 😫 Data Foundation 🖲 🌄 Business Metadata	Proporting instances > Proportio > Prove		
🖲 💩 Process Metadata	Code/ID FRY-9C-HC-E Description Schedule HC-E—Deposit Liabilities	Name HC-E Folder	
B 🗰 Reporting Metadata	Details Statistics Audit Trail		
B Seports	v Report Properties (1) å Name Value		Ŧ
HC-E	Report URL		
- HC-F - HC-G	o Depends on (1) ♣ Object Name Object Type		Ŧ
- 🖻 нон - 🖻 нол	ERY-9C-HC-E View		
- нс-к	v Used in (1) Diject Name Object Type		Ŧ
- HC-L - HC-M	ERY-9C Dashboard		
-Ш нс-м -Ш нс-м -Ш нс-р	= Applications (0)		
-D HC-Q			
- HC-R - HC-S			
- HC-V			
- В ні - В ні-а			
-В нь -В ньс			
-D (
-D I Next			
E Stews			

Figure 19: MDB - Reporting Metadata - Schedule View 1

	adata Browser al Search Home			
lication Object		View		R
OFSAA Metamodel	Reporting Metadata > Reports > HC-E > FRY-	9C-HC-E		
Data Foundation				
Business Metadata				
Drocess Metadata		ode/ID FRY-9C-HC-E	Name FRY-9C-HC-E	
Reporting Metadata	Desc	ription FRY-9C-HC-E	Folder	
Dashboard	Details Statistics Audit Trail			
Prev Prev	view Properties (1)		Ψ	
- HOF	🖏 Name	Value		
- HC-F	Display Format	Tabular		
-D HC-G				
- нс-н	» Reporting Elements (14)		1/1 🔄 🗟 🖸 🖸 Ju	imp To Page
-D HC-I	Name	Description		
- П нс-к	BHCB2210	TOTAL DEMAND DEPOSITS		
- HC-L	BHCB3187	NOW, ATS AND OTHER TRANSACTION ACCOUNTS IN DOMESTIC OFFICES OF COMMERCIAL BANKS		
- нс-м	BHCB2389	NONTRANSACTION SAVINGS DEPOSITS		
- HC-N	BHCB6648	TOTAL TIME DEPOSITS OF LESS THAN \$100,000		
- HC-P	BHCB2604	TOTAL TIME DEPOSITS OF \$100,000 OR MORE		
- HC-0	BHOD3189	NONINTEREST-BEARING BALANCES IN DOMESTIC OFFICES OF OTHER DEPOSITORY INSTITUTIONS		
- HC-R	BH003187	NOW, ATS AND OTHER TRANSACTION ACCOUNTS IN DOMESTIC OFFICES OF COMMERCIAL BANKS		
- HC-S	BHOD2389	NONTRANSACTION SAVINGS DEPOSITS		
HC-V	BHOD6648	TOTAL TIME DEPOSITS OF LESS THAN \$100,000		
-🗋 н	BHOD2604	TOTAL TIME DEPOSITS OF \$100,000 OR MORE		
	BHDMA243	BROKERED DEPOSITS ISSUED IN DENOMINATIONS OF LESS THAN \$100,000 WITH A REMAINING MATURITY OF ONE YEAR OR LESS		
- HI-C	BHDMA164	BROKERED DEPOSITS OF LESS THAN \$100,000 WITH A REMAINING MATURITY OF MORE THAN ONE YEAR		
-01	BHDMA242	FIXED RATE AND FLOATING RATE TIME DEPOSITS OF \$100,000 OR MORE WITH A REMAINING MATURITY OF ONE YEAR OR LESS		
Next	BHFNA245	TIME DEPOSITS IN FOREKIN OFFICES WITH A REMAINING MATURITY OF ONE YEAR OR LES		
🗄 🐞 Views	<			
	V Depends on (9)		1/2 0 0 D Jump to Page U	

b) Click the object view FRY-9C-HC-E. The Report Details page is displayed.

Figure 20: MDB - Reporting Metadata - Schedule View 2

You can view the below information in the *Details* tab:

- **Reporting Elements**: This section displays the line items in report with regulatory references.
- **Depends On**: This section displays the metadata used in a given schedule.
- c) Click any Reporting Element. For example, **BHCB2210**. The following page is displayed.

ORACLE	Metadata B						Last Executed Date : 17-No	ov-2015 12:09:29 User : rrdfuser	Connected To: OFSFSDFINFO
ORACLE	Global Search	h Home							
Application Object					Reporting Eler	nent			B
🕀 📙 Data Foundation		Reporting Metadata > Reports > <u>HC-E</u> > <u>FRY-</u>	9C-HC-E > BHCB2210						
🖲 🌄 Business Metadata 🕀 🎝 Process Metadata			ode/ID BHCB2210				Name BHCB2210		
the Reporting Metadata			ription TOTAL DEMAND D	DEPOSITS			Folder		
Dashboard									
🗆 🍓 Reports		Details Statistics Audit Trail							
Prev Prev		Reporting Element Properties (6)						Ŧ	
- HC-E		Name Derived	Value						
HC-F		Confidentiality	NO						
-Ш нс-с -Ш нс-н		Туре							
-Ш нсч		Notes Start Date	Includes as Demand Dep	posits:1. All checking accounts, including	those piedged as collater	al for 💓			
-Ш нс-к		End Date							
-D HC-L		» Dimension Filters (5)							
- 🗋 нс-м	1	Dimension	Me	embers					
- HC-N		Entity Type Hierarchy		ANSUB					
- HC-P		Geography - Branch Country	US						
нс-а		Depository institution flag - DOS Deposit Type Hierarchy	Y						
HC-R		Non Interest bearing deposit Hierarchy	Y						
нс-s нс-v		<							>
-D H		v Depends on (7)				1/2 🤇	Jump to Page		
- D H-A		Object Name Eop Balance RCY - Deposits	Object Type						
- 🗋 нь		Borrowings	Measure						
-Ш нно		Non Interest bearing deposit Hierarchy Deposit Type Hierarchy	Hierarchy Hierarchy						
- D 1		Entity Type Hierarchy	Hierarchy						
- <u>-</u> -		Depository institution flag - DOS	Hierarchy						
Next		» Used in (0)							
🗄 🐞 Views		» Applications (0)							
		a obbiermonia (a)							



You can view the following information in this page:

 Reporting Element Properties: It provides information on line items or cell references in regulatory reports.

Fields	Description
Derived	Provides information on whether the cell is derived / computed using other elements.
Confidentiality	Refers to regulator specific interpretation. For MDRM codes, it indicates whether the MDRM codes is confidential for disclosure within a specific report.
Notes	Refers to regulator specific interpretation. For MDRM codes, this field provides a detailed description of a given cell reference.
Start Date	Refers to regulator specific interpretation. For MDRM codes, this field refers to the effective date of particular cell reference in case.
End Date	Refers to regulator specific interpretation. For MDRM codes, this field refers to the effective end/ sunset date of particular cell reference.

Table 4: Fields and their Descriptions in Reporting Element Properties

- **Dimension Filters**: This section displays the dimensions and node value filters used to derive a particular cell.
- **Depends on**: This section displays all the hierarchies (dimensions, filters) and business measure used for arriving at a particular cell / MDRM code.
- 2. Starting from a common metadata used across application, you may want to know the list of reports/ derived entities this metadata has used. Let us take an example of measure. To use MDB for metadata wise schedule, for each metadata, identify the schedules in which it is used. Follow these steps to identify the schedules:
 - a) To view the measures, navigate to path *Objects* → *OFSAA Data Model* → *Business Metadata* → *Measures*. The LHS displays the list of measures. For example, Figure 22 refers to *Eop Balance RCY* - *Deposits Borrowings*.

	th Home				
cation Object			Measure		R
DFSAA Metamodel Q A	Business Metadata > Base Metadata > M	easures > Eop Balance RCY - Deposits Borrowings			
Business Metadata					
Base Metadata		Code/ID MSRHCE04		Name Eop Balance RCY - Deposits Borrowings	
B Datasets	-	lescription Eop Balance RCY - Deposits Borrowings		Folder	
🗄 📢 Alias	Details Statistics Audit Trail				
🖲 🔐 Hierarchies	« Measure Properties (5)			Ψ	
🖻 📽 Measures	Jin Name	Value			
Prev Prev	Aggregation Function	SUM			
Election Option Type for	Measure Data type	Decimal			
- Eligibility Flag for BP	Business Exclusions	1-1			
End Of Period Principal	Filter	1-1			
Entity Code for BP	Rollup Type	Yes			
- Entity Skey for BP	v Depends on (2)			Ψ	
Entity Type Count	Dbject Name	Object Type			
Eop Balance RCY	Deposits and Borrowings	Entites			
Eop Balance RCY - Cre	End of period balance in reporting currency	Columns			
Eop Balance RCY - Dep	v Used in (120)		1/24	🔄 🚯 🚺 Jump to Page 💿 👳	
	Object Name	Object Type	1/24	Verse D Jump to Page 🖉 🗸	
Eop Balance RCY -Loar	BHCK6555	Reporting Element			
Equity Exposure RWA fo	BHCK6556	Reporting Element			
Equity Exposure RWA fo	BHCKC699	Reporting Element			
Estimated Lifetime Net	BHCB2210	Reporting Element			
Excess amt recovered	BHCB2389	Reporting Element			
- Excess amt written-off -	» Applications (0)				
- Expected exposure Amc	Applications (0)				
Expected shortfall at Acc					
- Exposure Amount					
Exposure Amount - Mari					
Exposure Covered Facto					
Next					
Variables					
E E Techniques					

Figure 22: MDB - Business Metadata - Measure View 1

You can view the below information in this page:

- **Measure Properties:** It provides information on properties of Business measures. For example aggregation function, Measure Data Type, Business Exclusions, Filter and Rollup Type.
- **Depends on:** This section displays all the object names and their types, such as Entities, Columns and so on.

Follow these steps to view the derived entities used in a given schedule:

Note: The similar steps as below are applicable for other metadata such as Business Metadata (Hierarchies, Measures, Variables and so on) and Derived Metadata (Dimensions, Filters and so on).

a) To view the schedule wise derived entities, navigate to path Objects → OFSAA Data
 Model → Derived Metadata → Derived Entities. The LHS displays list of Schedules.
 For example, Figure 23 displays the derived entities used in Schedule HC-E:

	ata Browser learch Home			
ication Object			Derived Entity	R
C Expressions	A Business Metadata > Derived Metadata >	Derived Entities > DE - Deposit Liabilities - Schedule HC-E		
C Profiles				
Derived Metadata		Code/ID DERHCE03	Name DE - Deposit Liabilities - Schedule HC-E	
Oenved metadala	D	escription DE - Deposit Liabilities - Schedule HC-E	Folder	
B A Business Processor	Details Statistics Audit Trail			
Emilie Derived Entities	Sources Autor Intel Sources (3)		-	
Prev	Berived Entity Properties (3)	Value	•	
DE - Deposit Liabilities	Source Type	0		
DE - Derivatives and Of		3		
DE - Derivatives and Of		3		
DE - Derivatives and Of			1/3 🔄 🔄 🖸 🚺 Jump to Page 🛛 👳	
DE - Derivatives and Of		Object Type	Tra tel tel tel Samptorage	
DE - Derivatives and Of	Eop Balance RCY - Deposits	Measure		
DE - Derivatives and Of	Borrowings Bands hierarchy	Hierarchy		
DE - EOP Bal for all Acc	Calendar Date	Hierarchy		
DE - Face Notional or O		Hierarchy		
DE - Fact Reg Account		Hierarchy		
DE - Fair Value Rate of			1/3 @ 0 D Jump to Page	
DE - Family Res Mort B		Object Type		
DE - Family Res Mort B		View		
DE - Family Res Mort B		Reporting Element		
DE - Fixed Assets - Oth		Reporting Element		
DE - Guarantor Agency	BHCB2604	Reporting Element		
- DE - HC-D-Loans and I	BHCB3187	Reporting Element		
DE - HCM - Outstanding				
DE - HCQ Fair Value An				
DE - HIC - Disagg Allow				
Next				



You can view the following information in this page:

- **Derived Entity Properties**: It provides information on properties of derived entities, such as Source Type, Aggregate Flag, and Materialized View.
- **Depends on**: This section displays all the object names and their types, such as Measure, Hierarchy, and so on.

3 Regulatory Reporting (REG REP) Solution Data Flow

This chapter provides an understanding of the data flow. It explains what happens within data flow and how various processing aspects are integrated with the overall data flow.

It includes:

- Data Preparation
- Mapping of Results to Line Items in Reporting
- <u>AgileREPORTER: Submission</u>

3.1 Data Preparation

This section explains the input data preparation from OFSAA. It includes:

- Assumptions for Data Preparation
- Run/Execution Expectations
- Projection Data
- Data Flow from Sources Systems to Staging Area
- Data Flow from Staging to Results Area
- Data flow from Staging to Processing Area
- Data Flow From Processing to Results Area
- Dimension Tables/Entities

3.1.1 Assumptions for Data Preparation

- REG REP is a reporting solution, which uses data from underlying fact tables directly for reporting. The end user is expected to prepare the load for the required data in reporting area accordingly. Although this has a thin processing layer to reclassify to regulatory dimensions and bands, all the processing measures are expected to be from respective applications and provide as required.
- 2. It is integrated with results area of the respective processing application, and any change in the underlying processing can disturb the REG REP data sourcing.
- 3. Baseline and stress data must be populated with appropriate codes. Inaccurate mappings may can lead to inaccurate results. For details please refer to <u>Relationship between Run and Stress</u>.
- 4. For usage of consolidation dimension (which has values like Actual, Budged, Forecast, and so on), all historical data is expected to be tagged as actual for the purpose of reporting vintage data, as per report requirements. For projection data, for a given run and Projection Period (quarter/year), only one set of data is expected to be stored.
- 5. All processing reporting requirements requiring cashflows, integration package expects bucketed cash flow as a input (meaning a time bucket for cash flow and cash flow amount is expected as input).

3.1.2 US FED RUN CHART

Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack provides the US FED RUN Chart listing the tasks required for population of data for US FED Reports. This covers the following tasks:

- Set up table population
- Stage Dimension Load
- Seeded Dimension Data Population
- Common data Population
- Common Tasks like Exchange Rate Population
- US FED Specific Data Population and Transformation
- Derived Entity Refresh

Download the US FED 8.0.3.1.0 RUN Chart from the MOS.

3.1.3 Run/Execution Expectations

Run refers to execution. It is assumed that at different time periods, different combination of parameters, and different data require different executions. From a reporting perspective, as required by regulators, RRDF application requires data for the following executions:

- 1. Current Data / Execution
 - a. Reporting month end data
 - b. Projection Data
- 2. Historical (trend/vintage) Data
 - a. Yearly
 - b. Quarterly
- 3. Stressed Data

3.1.3.1 Relationship between Run and Stress

The REG REP application for example in FRY 14 Annual, picks up reporting data based on the Reporting Run that populates the underlying Fact Table(s). Reporting Run is a flag, which must be marked as 'Y' in a DIM_RUN table so that, the OBIEE reporting layer selects a particular run execution.

In this application, a Run comprises:

a. Baseline Run: The Bank Holding Company (BHC) may have multiple runs. The run used for reporting is marked with a Reporting Flag = Y. This is the Baseline run for a given reporting date. It is referred to as Baseline because the values that it represents are not stressed and the BHC may use these base values for stressing them according to various scenarios. A history of such runs accumulated over period of time provides historical runs. For more information on updating the reporting flag, refer section Updating Reporting Flag.

- b. **Stress Run**: Stress runs hold data, which are stressed by a certain percentage/basis point over the Baseline figures. The BHC expects these figures to reflect the business/risk position under predetermined business scenarios/economic conditions.
- c. Identification of Baseline and Stress run occurs from STRESS DIMENSION.

In this application, the required stress runs are tagged to a Baseline run. If the BHC performs several stress runs, the relevant runs which are intended for reporting are identified and tagged with a reporting Baseline run using the V_RUN_ID in the DIM_RUN.

DIM RUN stores n_run_skey / v_execution_id, which are execution specific for every run definition which is v_run_id. Therefore, the run definition can remain constant over a period of time and different executions provide different outputs due to underlying data changes.

DIM_STRESS conveys the stress definition. Additionally, it links the original run Definition (v_run_id) and Stressed run ID (v_stressed_run_id). You must refer to the DIM_RUN table to get expected run execution of these runs definitions pertaining to a particular date / n_mis_date_skey.

The same fact table stores both the Baseline data and the Stressed data, uniquely identified through Scenario codes (and Run skeys).

Refer to the *Business Metadata.xls* present in the installer package for details on different Fact tables used for related reports.

3.1.4 Projection Data

The following points provide information on the projection data:

- 1. Baseline run also populates projected date data.
- 2. This application requires projected data at two levels Quarterly and Annual.
- 3. The **DIM_CONSOLIDATION** table is used to identify the projections. It contains the codes for projected quarters and years as required by the templates.
- 4. In the Fact tables, projection data is referred with respective Consolidation codes (scenario code for **FCT_MGMT_REPORTING**). BHC must populate the data accordingly.
- 5. In the following example, FQ1 means Financial Quarter 1, FY1 means Financial Year 1 and so on.

Consolidation Code	Consolidation Description	Reporting Line	Scenario	EOP Balance
100	Actual	100	BSL	426,367
400	FQ1	100	BSL	608,618
401	FQ2	100	BSL	870,502
402	FQ3	100	BSL	567,736
403	FQ4	100	BSL	846,196
404	FQ5	100	BSL	775,027
410	FY1	100	BSL	470,092
411	FY2	100	BSL	473,880

Table 5	Projection	Data Example 1
---------	------------	----------------

Consolidation Code	Consolidation Description	Reporting Line	Scenario	EOP Balance
412	FY3	100	BSL	942,034
413	FY4	100	BSL	497,889
414	FY5	100	BSL	807,813

Note:

- For Movement measures data is not carried from one reporting period to another. For example, Profit or Loss. Where General ledger balances such as loan outstanding are carried forward from one year to another, profit and loss is period specific.
- Therefore, unlike End of Period (EoP) balance, movement values for quarter actuals must be derived for reporting. For a historical data, net sales for quarter 3 is the difference between sales figure as of end of quarters 2 and 3. You do not need to provide this difference as a download. Movement data for actual is identified through different runs and the respective values is summed up.
- Only those records, whose corresponding runs fall between the fiscal month start date and end date of the reporting quarter are selected for summation. Each Run has an associated date, and runs can be performed daily. Assuming that runs are performed daily in a given quarter (90 days), REG REP sums up data points across all 90 days to arrive at a quarter end movement figure.

Code	Projected Period	Reporting Line	Scenario	Run ID	Date	Projected Amount	Movement
100	Actual	100	BSL	RUNID001	10-Oct-13	300,000	
100	Actual	100	BSL	RUNID002	15-Nov-13	100,000	000 000
100	Actual	100	BSL	RUNID003	20-Nov-13	300,000	900,000
100	Actual	100	BSL	RUNID004	30-Dec-13	200,000	
400	FQ1	100	BSL				608,618
401	FQ2	100	BSL				870,503
402	FQ3	100	BSL				567,736
410	FY1	100	BSL				470,093
411	FY2	100	BSL				473,881
412	FY3	100	BSL				942,035

Table 6: Projection Data Example 2

 However, when projection of net sales for quarter 2 next year is to be performed, no derivation is required. Projections data for said quarter can be directly downloaded in the respective Fact table(s) for reporting.

3.1.5 Data Flow from Source Systems to Staging Area

The staging area is populated with data from various data sources, such as GL data, Account data, Customer data, Trading data, Currency data, and Master data. Refer to <u>Data Integration Hub (DIH) User</u> <u>Guide</u> in OHC Documentation Library for details. DIH enables to load the data from the source systems to the OFSAA staging tables, through logical interfaces, known as Application Data Interfaces (ADI). DIH provides a set of User Interfaces (UI), which is used to define and maintain External Data Descriptor (EDD), Application Data Interfaces, and map the EDDs and ADIs through connectors.

3.1.6 Data Flow from Staging to Results Area

This section details the pass through data, transformed data and classification.

3.1.6.1 Pass Through Data

Pass through data refers to the static data that is pre-processed and flows to the results area directly. The Common Staging Area (CSA) model represents the data entry point into the FSDF. CSA provides a simplified, unified data sourcing area for inputs required by analytical applications and engines. It consists of over 400 tables and nearly 9000 columns organized into distinct subjects.

The staging area is a physical data model, which is deployed using the Analytical Application Infrastructure, which manages it. The design of the staging area data model is to allow efficient data loading for analytics. It thus has crucial differences from a general-purpose repository of operational/transactional data across a bank.

The staging area acts as the single source of data, and contains unified data requirements for various banking areas such as Loans and Losses, Off balance Sheet products, Securities, Derivatives, Capital Data, Management Ledger and General Ledger. Common example of this category includes various monetary amounts, dates and so on.

3.1.6.2 Derived / Transformed Data and Reclassifications

OFSDF Interface with Lombard Risk for US FED requires specific hierachies and dates to be transformed and reclassified to regulator specific values.

Source Hierarchy			Target Hierarchy
ISSUER TYPE = US GOVT / FED	INSTRUMENT RISK FACTOR = INTEREST RATE	INSTRUMENT DERIVATIVE TYPE = SPOT	DIM REG INSTR CLASSIFICAITON = US GOVT SECURITIES
PROPERTY TYPE = 1-4Units	LTV Ratio < 2		DIM REG PRODUCT CLASSIFICAITON

Table 7:	Data	Transformation	Example

For example, data from banks has attributes such as issuer type and bank instrument type. However, these values are bank specific, and must be converted or reclassified to regulatory specific set of value such as DIM REG INSTR CLASSIFICATION as mentioned above.

Reporting derived entities use this reclassified dimensions. Some of the reclassifications are performed in the respective application area.

For example, DIM BASEL PRODUCT TYPE. This reclassification is performed in Basel application processing and available for reporting directly.

Other transformations include various bands such as time to remaining maturity, time to next repricing date, and so on.

3.1.6.3 Re-classified to Regulatory Classifications

After transformation, the regulatory data is reclassified as follows:

Source		Target	
DIM PROPERTY TYPE LTV Band Ratio		DIM REG PROD CLASSIFICAITON	
1TO4UNITS	>2	1-4FAMCONLOAN	

Table 9: Data Reclassification Example 2

FCT REG ACCOUNT SUMMARY				
Account Number REG PROD Classification Residual Maturity Band Delinquency Band			Delinquency Band	
1	1-4FAMCONLOAN	1	3	

The sample reclassifications performed to transform the existing hierarchies to regulatory specific hierarchies are:

- Regulatory Product Classification
- Regulatory Instrument Classification
- Regulatory Deposit Classification
- Trading Account Book Type Classification
- Claim Amount Population for Country Risk
- Immediate Counterparty Classification for Country Risk
- Claim Sector Reclassification for Country Risk
- Risk Sector Reclassification for Country Risk
- Cross Border Claim Reclassification for Country Risk
- Guarantee Amount Population for Country Risk

The additional transformations that are performed are:

- Remaining Time to Maturity Band
- Next Repricing Date Band
- Regulatory Delinquency Band

Within reclassification rules, few rules where source is customer specific values. In such cases, these rules must be validated and updated as required by end user because Out of Box rule may differ from what end user has. Such rules are very few and restricted to:

- 1. Standard Product Type Reclassification
- 2. Standard Party Type Reclassification
- 3. Regulatory Loan Purpose Classification

Refer to **Business Metadata** for details of these reclassifications.

3.1.7 Data Flow from Staging to Processing Area

The staging area of the FSDF serves as a container for analytical processing from sourcing to consumption. Such processing is usually delivered in the form of discrete units called analytical applications, spanning different analytical use cases ranging from Finance to Risk to Compliance.

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

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

Therefore, the OFSDF recognizes the need for distinct application-specific working stores, separate from the staging and reporting area. For example, the OFSAA Asset and Liability Management (ALM) application has a distinct set of ALM-specific tables, as does the Market Risk solution.

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

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

3.1.8 Data Flow from Processing to Results Area

This step is similar to <u>Data Flow from Staging to Results Area</u>. It involves either pass through data from processing to results or loading directly to results (refer <u>Section 3.1.8</u>). This is mostly due to processing measures such as Fair Value, Risk Weighted Assets, and so on.

3.1.9 Guidelines for Data Loading to Result Area Tables in Data Foundation for Regulatory Reporting Implementations

Regulatory reports make use of data available across several fact tables in the OFSAA data foundation model and these result tables are either loaded from the raw data sourced from source systems via out of the box T2T's or processed data output from various OFSAA applications.

For example, Fact LRM Account Summary (FCT_LRM_ACCOUNT_SUMMARY) which stores the liquidity risk related attributes and metrics computed by OFSAA LRM application, Fact Loan Loss Forecasting and Provision Account Summary (FCT_LLFP_ACCOUNT_SUMMARY) which stores the attributes and measures computed by OFSAA LLFP application. However, there can be several implementation use cases in the regulatory reporting space where customer may not have licensed any of OFSAA application and hence must put additional custom effort to design an ETL process to load the required data elements into the respective fact tables referenced by the report. The following section highlight some of the guidelines that the customer can consider when designing a data flow for such a use case.

Consistent Usage of Run Identifier

Most of the fact tables used in regulatory reporting are run enabled and have a composite primary key inclusive of run identifier that enables same snapshot of data to be loaded multiple times into the target fact table for any given execution date. All the out of the box processes that impact data used in regulatory reports are executed as part of an integrated run to ensure that run identifier is consistent across fact tables. Since the reporting is done on an integrated schema, it is imperative for the custom data flow design to keep this integrity intact. This essentially means that the custom ETL processes designed to load the data directly into the fact tables must be able to leverage the run identifier generated by the run engine during execution. Run Identifier information is available in DIM_RUN table.

Correct Dimensional Lookup Configuration

Dimensional identifiers are typically part of referential integrity constraints with the fact table so the custom ETL processes must ensure that lookups retrieve a valid surrogate keys for a given value of business key. The intermediate staging structure must ensure all the business keys are persisted correctly and the lookup condition is designed on the correct dimension table.

For example, FCT_LRM_ACCOUNT_SUMMARY.n_asset_level_skey → DIM_ASSET_LEVEL.n_asset_level_skey. The business key (v_asset_level_code) must be sourced and persisted to ensure correct values are populated in the target column, that is, FCT_LRM_ACCOUNT_SUMMARY.n_asset_level_skey.

From OFSAA technical infrastructure standpoint, the mentioned options are available to the customer to design and implement the custom ETL process explained above. OFSAA strongly recommends the below options to maintain consistency in terms of data lineage in Metadata browser as the configured metadata can be made available in meta model via MDB publish:

- 1) Data Integration Hub (DIH) Connectors
- 2) Data Mapping (T2T) option in Application Infrastructure
- 3) Data File Mapping (F2T) option in Application Infrastructure

3.1.9.1 DIH Connectors

For customer's that have licensed DIH to source data from external systems into OFSAA, this probably is the easiest approach to load data into the result area table. Source data could either reside in relational structure or in a file structure. Mappings maintained in DIH are logical in nature while physical implementation is managed internally. Dimensional lookups work seamlessly without the need for any additional configuration in the connector mapping as this too is managed internally by DIH. Refer to DIH user for details on how to load data into a result area table.

6	Connector Definition - Internet Explorer
Γ	
L	Connectors
l	Connectors > Connectors (Definition Mode) >
l	* Connector Flow Diagram
	Definition Source ZX Target Mapping Properties Summary
	What are the objectives of this connector?
l	
l	Which operation should this connector perform on OFSAA?*
l	O Insert data O Extract data
l	
L	On which OFSAA module should this operation be performed? *
l	Staging Results
l	
l	For which applications (if any) should this connector be mapped?
l	
	For which External Data Stores (if any) should this connector be mapped?
L	

3.1.9.2 Data Mapping (T2T)

Data Mapping refers to the process of retrieving unstructured data from data sources for further data processing, storage, or migration. This feature is commonly known as RDBMS source to RDBMS target(T2T) framework in the OFSAA world and can be leveraged when source data is available in Oracle database. Dimensional lookups must be handled via the T2T's join condition and expressions. Refer to *OFS AAI User Guide* for more details on configuring a T2T.

3.1.9.3 Data File Mapping (Flat File to RDBMS Target - F2T)

If the source data is available in file structures, OFSAA F2T component can be used to bring the data in the OFSAA eco system. As lookups cannot be configured in a F2T, this component must be used in conjunction with T2T component, that is, data is first loaded from the file to an interim staging structure using the F2T component followed by data load to the target result area table using the T2T component. This is least recommended approach as there is need for interim table structure in data model and involves multiple data hops which add to the overhead.

Refer to the OFS AAI User Guide for more details on configuring a F2T.

3.1.10 FSDF Entity Information

3.1.10.1 Dimension Tables/Entities

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
1	DIM_ACCRUAL_STATUS	Accrual Status Dimension	This table stores the loan accrual status. Values expected are : 0 = Accrual 1 = Non-Accrual 2 = Serviced for Others/Securitized
2	DIM_BANDS	Bands Dimension	This setup table contains the list of band dimensions. Information on the table name, columns containing the band codes, upper and lower bound values are stored in the setup table and a generic code is executed to populate the band codes in the respective fact tables.
3	DIM_CHANNEL	Acquisition Channel Dimension	This table stores the master list of all unique codes that denote channels through which customers can be acquired.
4	DIM_CREDIT_LINE	Credit Facility Dimension	This table stores the credit facility definition. Credit facility is committed line of credit given to a customer who can have multiple draws / exposures out of a given credit line.
5	DIM_CUSTOMER_TYPE	Customer Type Dimension	This entity stores the master list of customer types: OUR/ OTH.
6	DIM_DATES	Date Dimension	This table stores the List of Dates generated between any two dates typically covering extraction dates and cash flow dates.

Table 10: Di	mension Tal	oles/Entities
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SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
7	DIM_DELQCY_WORKOUT_PROGRAM	Delinquency Workout Program Dimension	This table stores the loss / delinquency workout program associated with loans. Workout program is defined generally as: if particular program is deferment, forbearance, term changes, rate changes, and so on. This is a seeded Dimension and list of values are pre-populated by the installer.
8	DIM_EDUCATION	Education Dimension	This table stores the customer's education master information.
9	DIM_FISCAL_PERIODS	Fiscal Periods Dimension	This table stores the fiscal information for each calendar based on the convention followed in the particular jurisdiction.
10	DIM_FORECLOSURE_STATUS	Foreclosure Status Dimension	This table stores the foreclosure process status. Values expected are: 0 = Not in foreclosure 1 = In foreclosure, pre-sale 2 = Post-sale foreclosure, Redemption, non-REO (if available, otherwise REO) 3 = REO
11	DIM_INTEREST_TYPE	Interest Type Dimension	This table stores the Interest Type.
12	DIM_LOAN_MODIFICATION_TYPE	Loan Modification Type Dimension	This table is used for any loan that is currently operating under modified terms and identifies the specific terms that were altered through loss mitigation efforts. The information in this table is independent of investor and speaks only to the nature of the program. For example, a FNMA loan can be modified under either a FDIC or proprietary modification program – in these cases, this information is populated with the FDIC or proprietary codes while the Investor field identifies the modification as being performed on a FNMA loan. 0 = Loan has not been modified 6 = ASF Streamline 8 = FHFA Streamline (Specific to program announced 12/15/08)

SI.	List of Seeded Tables	Table/Entity	Table/Entity Descriptions
No.		Logical Names	
			 9 = FDIC Streamline ("Mod in a Box") 10 = Proprietary Systematic Program 11 = Proprietary Other 12 = Home Affordable Modification and: 0 = Not Modified 7 = 2MP 8 = Proprietary Systematic 9 = Proprietary Other 10 = HAMP
13	DIM_ORG_STRUCTURE	Organization Structure Dimension	This entity stores the Organization Structure of the Financial Institution.
14	DIM_PRODUCT	Product Dimension	This entity stores the details of all the products (existing/stopped) offered by the Financial Institution.
15	DIM_PRODUCT_TYPE	Product Type Dimension	This table stores the loan product type information.
16	DIM_REG_PRODUCT_TYPE	Regulatory Product Type Dimension	This table stores the regulatory product types. This is used for regulatory reporting purpose and contains values like Auto Loans, Credit Cards, other consumer loans, and so on.
17	DIM_REG_REGION	Regulatory Region Dimension	This entity stores the borrower's current place of residency must be used to define the region.
18	DIM_RUN	Run Dimension Dimension	The Run Master Dimension entity stores all the baseline and simulation runs.
19	DIM_VEHICLE_TYPE	Vehicle Type Dimension	This table stores the vehicle types. For example: SUV, Car, Truck, and so on.
20	DIM_WRITE_OFF_REASONS	Write-Off Reasons Dimension	This table stores the master list of reasons based on which the contracts are written- off from the books.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
21	DIM_AGENCY_TYPE	Agency Type Dimension	This table stores details of Agency type which issues and guarantees loans like US Government Agency, US Government Sponsored Agency.
22	DIM_COUNTRY	Country Dimension	This table stores the master list of countries.
23	DIM_CR_LN_VALUATION_TYPE	Credit Line Valuation Type Dimension	This entity stores the method used to account the credit line. The credit line can account for under the fair value option or is held for sale and carried at the lower-of- cost-or-market (LOCOM).
24	DIM_CREDIT_RATING	Credit Rating Dimension	This table stores the master list of credit rating and rating issuers.
25	DIM_CUSTOMER	Customer Dimension	This entity stores the list of the organization's customers and counterparties and their attributes.
26	DIM_FRY9C_LINES	FR Y-9C Lines Dimension	 This table stores the FR Y-9C reports codes. The FR Y-9C report is a highly analytical report submitted to the regulator for the purpose of analyzing health of banking institution. Report the integer code (Additional Instructions for FR Y 9C for descriptions). Only enter designated descriptions corresponding to the line number on the FR Y-9C, HC-C, in which the outstanding balance is recorded or, in the case of an unused commitment, the line number in which the credit facility would be recorded if it were drawn. Refer to following FR Y-9C instructions for definitions of HC-C line item categories: 1. bhck1292 (U.S. Banks and other U.S. Depository Institutions) 2. bhck1296 (Foreign Banks) 3. bhck1590 (loans to finance agricultural

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
			 production and other loans to farmers) 4. bhck1763 (Commercial and Industrial loans to U.S. addressees. Exclude loans that are scored but not graded) 5. bhck1764 (Commercial and Industrial loans to non-U.S. addresses. Exclude loans that are scored but not graded) 6. bhck2081 (Loans to foreign governments and official institutions) 7. bhckJ454 (Loans to non depository financial institutions) 8. bhckJ451 (All other loans, excludes consumer loans) 9. bhckF163 (All other leases, excludes consumer leases) 10. bhckF160 (nonfarm,nonres, owner occupied) 11. nonfarm, nonres, owner occupied originated in non-domestic offices as reported within bhck1410
27	DIM_INDUSTRY	Industry Dimension	This table stores the industry information.
28	DIM_LIEN_POSITION	Lien Position Dimension	This table stores the list of lien positions that can be on the collateral.
29	DIM_LOB	Line Of Business Dimension	This entity stores the unique list of Line of Bussiness and the details of each Line of Bussiness.
30	DIM_MITIGANT	Mitigant Dimension	This entity stores information on various risk mitigants like collateral, guarantee, nettable liabilities, and so on.
31	DIM_PARTY	Party Dimension	This table stores the history of a party. Party here can be customer, issuer and guarantor, and so on.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
32	DIM_REG_INDEX	Regulaory Index Information Dimension	This table stores list of indices which are designed to store the regulatory based index code as designated by the regulator. For example: LIBOR, PRIME, Treasury Index, and so on.
33	DIM_REG_INTEREST_TYPE	Regulaory Interest Type Dimenison	This table stores the list of indices which are designed to store the regulatory based interest type code as designated by the regulator for an account at account level or group of accounts at a credit line level. For example: FIXED, FLOATING, MIXED, and so on.
34	DIM_STD_CREDIT_LINE_PURPOSE	Standard Credit Facility Purpose Dimension	This table stores the regulator specified purpose of the said credit facility. This is the list of values which are unique to US Banking system. Only Number is expected here. This is also synch up with Shared National Credit data codes. 0 = OTHER 1 = ACQUISITION AND/OR MERGER FINANCING 2 = ASSET SECURITIZATION FINANCING 3 = CAPITAL EXPENDITURES EXCLUDING REAL ESTATE 4 = COMMERCIAL PAPER BACK-UP 5 = INDUSTRIAL REVENUE BOND BACK-UP 6 = MORTGAGE WAREHOUSING 7 = TRADE FINANCING 8 = PERFORMANCE GUARANTEE 9 = WORKING CAPITAL - SHORT TERM/SEASONAL 10 = WORKING CAPITAL - PERMANENT 11 = GENERAL CORPORATE

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
140.		Logical Mailles	PURPOSES
			12 = DEBT
			REFINANCE/CONSOLIDATION
			13 = ESOP FINANCING
			14 = AGRICULTURE AND/OR
			LIVESTOCK PRODUCTION
			15 = AGRICULTURE AND/OR
			RANCHING REAL ESTATE
			16 = STOCK BUYBACK
			17 = PORTFOLIO ACQUISITION INCLUDING NOTE PURCHASE AGREEMENTS
			18 = REAL ESTATE ACQUISITION/DEVELOPMENT/CO NSTRUCTION – LAND
			19 = REAL ESTATE ACQUISITION/DEVELOPMENT/CO NSTRUCTION – RESIDENTIAL
			20 = REAL ESTATE ACQUISITION/DEVELOPMENT/CO NSTRUCTION - COMML & INDL
			21 = REAL ESTATE INVESTMENT/PERMANENT FINANCING – RESIDENTIAL
			22 = REAL ESTATE INVESTMENT/PERMANENT FINANCING - COMMERCIAL AND INDUSTRIAL
			23 = BUSINESS RECAPITALIZATION/DIVIDENDS
			24 = NEW PRODUCT DEVELOPMENT
			25 = PROJECT FINANCING

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
35	DIM_STD_CREDIT_LINE_TYPE	Standard Credit Facility Type Dimension	This table stores the regulator specified credit facility types. For example: 1 = REVOLVING CREDIT 2 = REVOLVING CREDIT CONVERTING TO TERM LOAN 3 = REVOLVING CREDIT - ASSET BASED 4 = REVOLVING CREDIT - DIP 5 = NON-REVOLVING LINE OF CREDIT 6 = NON-REVOLVING LINE OF CREDIT CONVERTING TO TERM LOAN 7 = TERM LOAN 8 = TERM LOAN – A 9 = TERM LOAN – B 10 = TERM LOAN – B 10 = TERM LOAN – BRIDGE 12 = TERM LOAN – ASSET BASED 13 = TERM LOAN – DIP 14 = CAPITALIZED LEASE OBLIGATION 15 = STANDBY LETTER OF CREDIT 16 = OTHER REAL ESTATE OWNED 17 = OTHER ASSET
36	DIM_STD_MITIGANT_TYPE	Standard Mitigant Type Dimension	This entity stores the standard mitigant type.
37	DIM_ACCOUNT	Account Dimension	This table stores the list of identifiers which uniquely identify every single financial arrangement between customer and reporting bank.
38	DIM_COLL_VALUE_BASIS	Collateral Vaulation Basis Dimension	This table stores the valuation basis of the Collateral Valuation. The allowed values are "as is", "as stabilized", or "as completed".

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
39	DIM_HOLDING_TYPE	Holding Type Dimension	This table stores the Holding Type of the security.
40	DIM_LOCATION	Location Dimension	This table stores the location dimension.
41	DIM_PROPERTY_TYPE	Property Type Dimension	This table stores the property types associated.
42	DIM_REG_LOAN_PURPOSE	Regulatory Loan Purpose Dimension	This table stores the description for the regulatory loan purpose / utilization of loan amount. Values expected are: 1 = Purchase 4 = Rate / Term Refinance 5 = Cash-Out Refinance 6 = Other Refinance 7 = Home Improvement 8 = Debt Consolidation 9 = Education A = Medical Y = Other U = Unknown
43	DIM_CREDIT_STATUS	Credit Status Dimension	This entity stores the credit status codes for the customer account along with the descriptions for each status code. For example: current, delinquent, foreclosed.
44	DIM_GEOGRAPHY	Geography Dimension	This table stores the distinct list of all geographical locations, where any of the transaction channels of the Bank are located.
45	DIM_REG_PRODUCT_CLASSIFICATION	Regulatory Product Classification Dimension	This tables stores the classification of loans underlying Mortgage Servicing Rights into Regulatory classes as required for reports. For example: FHLMC/ FNMA, FHA loans, and so on.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
46	DIM_ASSET_LEVEL	Liquidity Asset Level Dimension	This table stores the various Asset Levels that can be assigned to the account. Under Basel Accord, an account can be either Level 1 Asset or Level 2 Asset or Other Asset.
47	DIM_BROKER_DEPOSIT_TYPE	Broker Deposit Type Dimension	This table stores the standard list of broker deposit types that are required in the regulatory document. A broker is an individual or party (brokerage firm) that arranges transactions between a buyer and a seller for a commission when the deal is executed. There are several kinds of brokers, each of whom deals in specific types of transactions. Each type of broker provides different levels or type of service. The list of values for this table is Reciprocal, Sweep, and Other.
48	DIM_COLL_RELEASE_REASON	Collateral Release Reason Dimension	This entity stores the reason due to which the Collateral is released. Values expected are Excess, Due, and so on.
49	DIM_CURRENCY	Currency Dimension	This table stores the currency information.
50	DIM_ENCUMBRANCE_STATUS	Dimension Encumbarance Status Dimension	This entity stores the list of encumbrance status. The list fo values are Fully Encumbered, Partially Encumbered, and Not Encumbered.
51	DIM_INSTRUMENT_CONTRACT	Instruments Contracts Dimension	This entity stores the contracts and instruments in the Market and their details like Effective Date, Maturity Date, Face Value, Day Convention, Strike, and so on.
52	DIM_INSTRUMENT_TYPE	Instrument Type Dimension	This entity stores the details of all the Instrument Types which Reveleus Market Risk solution supports.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
53	DIM_INSURANCE_SCHEME	Dimension Insurance Scheme	This entity stores the details of insurance scheme.
54	DIM_IR_STRUCTURED_INSTRS	Structured Security Type Dimension	This table stores details of Structured Security Type like Pass Through Certificates and mortgage-backed securities.
55	DIM_MITIGANT_TYPE	Mitigant Types Dimension	This entity stores the master list of mitigant types given by the customers against their exposures. Possible types include Collateral, Guarantee, and so on.
56	DIM_NETTING_AGREEMENT	Netting Agreement Dimension	This table stores the details of Netting Agreement. Netting agreement happens between a bank and a counterparty for OTC derivative and SFT transactions. For example: ISDA, FOA, EEI, and so on.
57	DIM_PARTY_TYPE	Party Type Dimension	This table stores the history of a party for party type. Party here could be customer, issuer and guarantor, and so on.
58	DIM_REG_COLLATERAL_STOCK_TYPE	Regulatory Collateral Stock Type Dimension	 This table stores the regulatory collateral stock type and acts as a reclassified dimension which refers to the stock of collateral held or posted by the entity related to certain transactions like derivatives. Expected values are: Rehypothecatable – Unencumbered (and Treasury Controlled) Rehypothecatable – Encumbered (or not Treasury Controlled) Non-Rehypothecatable Segregated Cash Non-Segregated Cash

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
59	DIM_REG_COVER_TXN_TYPE	Regulatory Covered Transaction Type Dimension	This table stores the regulatory covered transaction types.
60	DIM_REG_DEPOSIT_TYPE	Regulatory Deposit Type Dimension	This table stores the details of various deposit types like Demand deposits and Negotiable Order of Withdrawal (NOW) accounts.
61	DIM_STD_GL_TYPE	Standard General Ledger Type Dimension	This table stores the standard general ledger types.
62	DIM_UNDRLYNG_ASST_POOL_TYPE	Underlying Asset Pool Type Dimension	This table stores the underlying asset pool type for derivative instruments. For example, Student Loan ABS means an asset backed security backed by student loans. In this case, this table stores the Student Loan.
63	DIM_REG_INSTR_CLASSIFICATION	Regulatory Instrument Classification Dimension	This table stores data for different Instrument Classification defined by the Regulators.
64	DIM_STANDARD_PARTY_TYPE	Standard Party Type Dimension	This table stores the standard party type. Party here can be customer, issuer and guarantor, and so on.
65	DIM_STANDARD_PRODUCT_TYPE	Standard Product Type Dimension	This table stores the list of all product types specified by regulator for risk computations.
66	DIM_REG_PARTY_TYPE	Regulatory Party Type Dimension	This entity stores the regualtor specfic party types.
67	DIM_REG_LIQ_REPORTING_GROUP	Regulatory Liquidity Reporting Group Dimension	This is a reclassififed dimension storing various PIDs/Product reported in Liquidity reporting.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
68	DIM_STANDARD_CENTRAL_BANKS	Standard Central Banks Dimension	This table stores the names of various central banks across the world.
69	DIM_REG_INSURER	Regulatory Insurer Dimension	This is a reclassified dimension which stores the deposit insurers as specified by the regulator. Values Expected are FDIC, OTHERS, and UNINSURED.
70	DIM_RESULT_BUCKET	Result Bucket Dimension	This table stores the result buckets associated with each process.
71	DIM_SETTLEMENT_TYPE	Settlement Type Dimension	This table is used to identify the settlement mechanisms used for Secured and Foreign Exchange products. Following Secured products are identified using the table: TRIPARTY: secured financing transactions settled on the US-based tri-party platform, OTHER: secured financing transactions settled on other (for example, non-US) third-party platforms, BILATERAL: secured financing transactions settled bilaterally. Following Foreign Exchange products are identified using the table: CLS: FX transactions centrally cleared via CLS, OTHER: FX transactions settled via other (non-CLS) central clearinghouses, BILATERAL: FX transactions settled bilaterally.
72	DIM_RISK_SCENARIO	Risk Scenario Dimension	This table stores the Operation Risk Scenarios.
73	DIM_REG_TRADING_POSITION_CLASS	Regulatory Trading Position Class Dimension	This table stores the regulatory trading position class values.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
74	DIM_REG_LIQ_CASHFLOW_GROUP	Regulatory Liquid Cashflow Group Dimension	This table store the cash flow groups used for liquidity reporting like FR 2052a. This serves as a reclassified dimension in regulatory reporting.
75	DIM_FIXED_ASSETS	Fixed Assets Dimension	This table stores the data related to fixed assets. Fixed assets are physical assets such as Buildings, Land, Machinary, Automobiles, Gold bullion, and so on. They can be sold and appropriate profit/loss can be recognized based on appropriate accounting principles.
76	DIM_ISSUER	Issuer Dimension	This entity is used as an issuer of marketable collaterals.
77	DIM_REP_LINE	Reporting Line Dimension	This table stores list of all computed reporting line items.
78	DIM_SECURITIZED_PRODUCTS	Securitized Products Dimension	This table stores details of Securitized products like Residential pass-through securities and Residential mortgage- backed securities.
79	DIM_TRADING_ACCT_BOOK_TYPE	Trading Account Book Type Dimension	This table helps to identify trading assets and liabilities. Along with Holding type as held for trading, at times the regulator has an additional criteria like positive fair value for identification of trading assets and negative fair value for trading liabilities.
80	DIM_CONSOLIDATION	Consolidation Dimension	This entity stores details of various kinds of values to be analyzed like actual or budget.
81	DIM_ACCOUNT_PORTFOLIO	Account Portfolio Dimension	This table is planned for deprecation.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
82	DIM_ACCT_PORTFOLIO	Account Portfolio Dimension	This table stores the master list of all the portfolios of the Institution. Portfolios are user-defined group of accounts. For example, auto loan porfolio is a group of auto loans.
83	DIM_ACCT_STATUS	Account Status Dimension	This table stores a set of unique codes that denote the status of an account.
84	DIM_APR_RESET_TYPE	Apr Reset Type Dimension	This table stores the frequency of reset for the APRs as applicable to the card account.
85	DIM_BANKRUPTCY_CHAPTER	Bankruptcy Chapter Dimension	This table stores the code of the bankruptcy chapter filed by customer of the said account. The list of values are pre- populated by the installer.
86	DIM_CARD_FEE_PAY_TYPE	Card Fee Pay Type Dimension	This table stores the fee pay types associated with card account. Expected values are: 0 = No fee 1 = Annual 2 = Monthly 3 = Other
87	DIM_CENTRAL_AUTHORITY	Central Authority Dimension	This table stores the list of all the central authorities like Group Supervisor, and so on, for an entity.
88	DIM_CREDIT_CARD_CO_BRAND_TYPE	Credit Card Co Brand Type Dimension	This table stores the co-branding type / association code linked to the said credit card. The list of values are pre-populated by the installer.
89	DIM_CREDIT_CARD_LENDING_TYPE	Credit Card Lending Type Dimension	This table stores the credit card type code. The list of values are pre-populated by the installer.
90	DIM_CREDIT_CARD_NETWORK	Credit Card Network Dimension	This table stores the credit card networks associated.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
91	DIM_CREDIT_CARD_REWARD_TYPE	Credit Card Reward Type Dimension	This table stores the credit card reward type code. The list of values are pre- populated by the installer.
92	DIM_CREDIT_CARD_TYPE	Credit Card Type Dimension	This table stores the codes of the credit card usage. The list of values are prepopulated by the installer.
93	DIM_CREDIT_CLASS_TYPE	Credit Class Type Dimension	This table stores the credit class type description assigned to the given account. The list of values are pre-populated by the installer.
94	DIM_CREDIT_LINE_CHANGE_TYPE	Credit Line Change Type Dimension	This table stores the code of the credit line change type initiated by bank as applicable to the said account. The list of values are pre-populated by the installer.
95	DIM_CREDIT_SCORE_TYPE	Credit Score Type Dimension	This table stores the credit score type codes to be used for reporting for regulatory purposes code. The list of values are pre-populated by the installer.
96	DIM_DELQCY_WORKOUT_PROG_STATUS	Delinquency Workout Program Status Dimension	This table stores code of status of the work out programs. The list of values are pre- populated by the installer.
97	DIM_DELQCY_WORKOUT_PROG_TYPE	Delinquency Workout Program Type Dimension	This table stores the workout program type code associated with said account. The list of values are pre-populated by the installer.
98	DIM_ENTITY_TYPE	Entity Type Dimension	This table stores list of all types of entities in the organization structure.
99	DIM_INCOME_DOCUMENTATION_PROG	Income Documentation Program Dimension	This table stores the code of the income documentation related to particular account / customer. The list of values are pre-populated by the installer.
100	DIM_INCOME_SOURCE_TYPE	Income Source Type Dimension	This table stores the income sources. The list of values are pre-populated by the installer.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
101	DIM_INDEX	Index Information Dimension	This table stores list of indices which are designed to measure price changes of an overall market, such as the stock market or the bond market. For example, Vanguard's Total Bond Market Index, Dow Jones Industrial Average, Tokyo Stock Exchange(Nikkei 225), and so on.
102	DIM_INTEREST_TYPE_CONVERSION	Interest Type Conversion Dimension	This table stores the interest type change code for a given loan. Indicates whether the interest type was converted from ARM to Fixed through loss mitigation, and the duration of the fixed rate period. The list of values are pre-populated by the installer.
103	DIM_LIEN_PERFORMANCE	Lien Performance Dimension	This table stores the performance description of the lien associated with the loan account. It includes First and Junior lien performance. The list of values are pre-populated by the installer.
104	DIM_LIQUIDATION_STATUS	Liquidation Status Dimension	This table stores the code of liquidation status to convey the way account was liquidated. The list of values are pre- populated by the installer.
105	DIM_LOAN_REPURCHASE_STATUS	Loan Repurchase Status Dimension	This table stores the loan repurchase process status associated with the said account. The list of values are pre- populated by the installer.
106	DIM_LOAN_SOURCE_TYPE	Loan Source Type Dimension	 This table stores the source by which the servicer originated or otherwise acquired the mortgage. At the servicer's discretion, acquired servicing can be reported as retail, broker, or correspondent originations to the extent the information is available. Retail – Report all mortgages originated through the reporting institution's retail, including branch or internet, production channel.

SI.	List of Seeded Tables		
		Table/Entity	Table/Entity Descriptions
No.		Logical Names	
			 Wholesale (Broker) - Report all mortgages originated through the reporting institution's wholesale/broker production channel. Report as broker originated all third-party originated loans where the bank cannot distinguish between broker and correspondent originated. Correspondent - Mortgages acquired through the reporting institution's correspondent production channel. This includes all mortgage whole loans purchased on a recurring basis (flow) from another correspondent institution, eligible for securitization into the secondary markets or portfolio retention on the bank's balance sheet. Report as broker originated all third-party originated loans when the bank cannot distinguish between broker and correspondent originated. Bulk Purchase – Pools of mortgage whole loans purchased from a third party originator for the right to securitize or retention in the bank-owned portfolio. Residential
			Mortgages acquired for the Servicing Portfolio in this manner are typically negotiated as one-time transactions between a Mortgage Institution and
			an independent third party originator (Mortgage Company or Correspondent). Report all bulk
			acquisitions and correspondent flow acquisitions as correspondent originated when the institution cannot distinguish between these categories. Do not label bank acquisitions as

SI.	List of Seeded Tables	Table/Entity	Table/Entity Descriptions
No.		Logical Names	
			 Bulk Purchases. Servicing Rights Purchased - Refers to a separately negotiated purchase of mortgage servicing rights (PMSR) from a third party. When the servicer cannot distinguish between bulk whole loan and bulk servicing acquisitions, the servicer must report all of these acquisitions consistently in the category that represents the majority of the servicer's acquisitions. Note: This reporting category applies exclusively to the Servicing Portfolio. Wealth Management/Private Banking – report all loans originated through a servicer's private wealth management or private banking division. This is a seeded Dimension and list of values are pre-populated by the installer.
107	DIM_LOSS_SHARE_AGREEMENT	Loss Share Agreement Dimension	This table stores specific loss sharing agreements. A unique ID must be generated for each active sharing agreement. The specific ID must be consistent over time for as long as the agreement remains active without a relevant change in the terms of the loss sharing agreement. The institution must also provide a written summary of the relevant terms of each loss sharing agreement along with the corresponding Loss Share ID number. Additional supporting documentation may be requested if necessary. Report blank if the account is not associated with a loss sharing agreement.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
108	DIM_MORT_INVESTOR_TYPE	Mortgage Investor Type Dimension	This table stores the mortgage investor type or insurance company code which logically owns the mortgage till debt is cleared off. The list of values are pre- populated by the installer.
109	DIM_MORTGAGE_OCCUPANCY	Mortgage Occupancy Dimension	This table stores the code of mortgage occupancy for a given loan /account. The list of values are pre-populated by the installer.
110	DIM_PROG_ACTIVITY_STATUS	Program Activity Status Dimension	This table stores the program activity status code. The list of values are pre- populated by the installer.
111	DIM_REPAYMENT_STATUS	Repayment Status Dimension	This table stores the loan repayment plan status code. Repayment Performance Status – This field tracks the performance of repayment and step-to-mod plans. If a repayment plan or step-to-mod was completed successfully during the month, it must be coded as such in the work-out type completed field). This field is only to be populated for repayment plans that were active as of the end of the month or broken during the month. Broken plans must only be reported in the month the plan breaks. The list of values are pre- populated by the installer.
112	DIM_VALUATION_METHOD	Valuation Method Dimension	This table stores list of all methods used for valuation purposes.
113	DIM_RISK_SECTOR	Risk Sector	This table stores the reporting risk sectors which are determined based on the legal entity of the counterparty.
114	DIM_LOAN_SERVICE_TYPE	Loan Service Type Dimension	This table stores the details of loan service type which details whether the loan is Extended, Guaranteed, Serviced, or Insured by the Holding Company

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
115	DIM_PLEDGED_STATUS	Pledged Status Dimension	This entity stores the Pledged Status information.
116	DIM_SECURITIZATION_TYPE	Securitisation Type Dimension	This table stores the different securitization types as defined by Basel.
117	DIM_MARKET_RISK_POSITION	Dimension Market Risk Position	This entity stores a master list of different positions a Financial Institution can have on different marketable instruments. For example: Long Position, Short Cash Long Call, Long Put, and so on.
118	DIM_BASEL_BANK_ROLE	Basel Bank Roles	This table stores the Bank Role type as defined by Basel Accord.
119	DIM_BASEL_PRODUCT_TYPE	Basel Product Types Dimension	This table stores the details of product type as defined by Basel.
120	DIM_BASEL_CONSL_OPTION_TYPE	Basel Consolidation Option Dimension	This entity stores the Basel Consolidation Option Type (Solo / Consolidation).
121	DIM_EXPOSURE_UNDERLYING_TYPE	Exposure Underlying Type	This table stores the various underlying type for the exposure.
122	DIM_BEHAVIOUR_TYPE	Behaviour Type	This table represents account behaviour / performance. Expected Values are Core, Volatile, Substandard, Doubtful, Loss, Sight Devolvement, Sight Recovery, Usance Devolvement, and Usance Recovery.
123	DIM_REG_RISK_CLASS	Regulatory Risk Classification	This table stores the regulatory risk class like High / Medium and so on.
124	DIM_BASEL_POOL_TYPE	Dimension Basel Pool Type	This table stores the various securitization pool types.
125	DIM_BASEL_ASSET_CLASS	Basel Asset Class	This table stores the Basel defined exposure types.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
126	DIM_RISK_TYPE	Risk Type Dimension	This Master table stores the risk ttypes. For example: Price Risk, Volatility Risk, and so on.
127	DIM_BASEL_METHODOLOGY	Basel Methodology Dimension	This table stores the approach methodology as defined by Basel.
128	DIM_CAPITAL_COMP_GROUP	Capital Computation Group Dimension	This table stores the dimensions of Capital Computation Group.
129	DIM_BANK_BASE_ROLE	Bank Base Roles Dimension	This table stores the Bank Role type as defined by Basel.
130	DIM_FIDUCIARY_SERVICE_TYPE	Fiduciary Service Type Dimension	This entity stores the details of various types of fiduciary service.
131	DIM_FIDUCIARY_SERVICE_ROLE	Fiduciary Service Role Dimension	This entity stores the details of various roles played by a fiduciary service provider.
132	DIM_MR_ASSET_CLASS	Market Risk Asset Class Dimension	This entity stores the list of Ratings like AAA, EQ & custom Equities, XS and COM, which are used to identify the Interest Rate Risk Factor, Equity Risk Factor, Currency Risk Factor, and Commodity Risk Factors respectively.
133	DIM_FUND_TYPE	Fund Type Dimension	This table stores list of all applicable types of fund.
134	DIM_FUND	Fund Dimension	This table stores list of all funds used by the entity.
135	DIM_CAP_INSTRUMENT_TXN_TYPE	Capital Instrument Transaction Type Dimension	This table stores the capital instrument transaction type.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
136	DIM_CONSTRUCTION_LOAN_TYPE	Construction Loan Type Dimension	This table stores details of Construction Loan Type like 1-4 Family residential, construction, town houses, duplex for the construction loans issued by Holding company.
137	DIM_ISSUER_TYPE	Issuer Type Dimension	This entity stores the issuer yypes.
138	DIM_ACCOUNT_TYPE	Dimension Account Type	This table stores the details of the account type.
139	DIM_SALE_TYPE	Sale Type	This table stores the loan sale types. Organization can sell the loans as whole loan, through securitization, or pass through certificates.
140	DIM_REG_EQ_INVST_CLASSFCTN	Regulatory Equity Investment Classification Dimension	This table stores the regulator defined classifications of equity investment as used in regulatory reports. Expected Values are Direct Public Investment, Direct Nonpublic Investment, Indirect Investment.
141	DIM_REG_EQ_TXN_GROUP	Regulatory Equity Transaction Group Dimension	This table stores the regulator defined types of equity transactions as used in regulatory reports. Expected Values are Purchase, Return of Capital, Net Valuation Changes, and others.
142	DIM_SCENARIO	Scenario Dimension	This entity stores the details of various kinds of values to be analyzed like actual or budgeted.
143	DIM_REG_VINTAGE	Regulatory Vintage Dimension	This table stores the vintage definitions used in building Vintage dimensions in CRR. Vintage codes are "Year" + "Month" combination. Additional Comment is: Vintage dimension was built on fact table.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
144	DIM_ACCT_SOLD_EXEMPT_STATUS	Account Sold Exemption Status Dimension	This table stores the status of exemption for sold accounts. Loans sold have liability on bank on legal terms. This dimension helps to identify if particular loan is exempted from reporting as it is already repurchased or settlement is completed.
145	DIM_STANDARD_ACCT_HEAD	Standard Accounting Head Dimension	This dimension lists the various standard accounting heads (Equity, Reserves and Surplus, and so on.) under which a bank classifies its GL sources of accounting capital.
146	DIM_INSTRUMENT_CATEGORY	Instrument Category Dimension	This table stores instrument category - Assets/Liabilities/Others/Services.
147	DIM_EXPOSURE	Exposure Dimension	This table stores the account wise summary for product processor.
148	DIM_OPRISK_LOSS_DATA_CATEGORY	Operational Risk Loss Data Category Dimension	This tables stores the operational loss data category. Expected Values are Internal, External, Model Input, and Scenario.
149	DIM_VARIABLE	Variable Definition Dimension	This table stores the variables to be consumed by Enterprise Stress Testing or any other similar usage.
150	DIM_ACCRUAL_STATUS	Accrual Status Dimension	This table stores the loan accrual status. Values expected are: 0 = Accrual 1 = Non-Accrual 2 = Serviced for Others/Securitized
151	DIM_CREDIT_SCORE_MODEL	Credit Score Model Dimension	This table stores the list of credit score models used in arriving at the credit score.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
152	DIM_PRODUCT_INT_TERM_GROUP	Product Interest Term Group Dimension	This table stores the Interest and Term Group together. For example, few US loans are categorized as Fixed 30 which means fixed interest and 30 years maturity and are reported with name Fixed 30.
153	DIM_REG_ACCT_SOURCING_CATEGORY	Regulatory Account Sourcing Category Dimension	This table stores the list of regulatory account sourcing categories that a bank follows to acquire a customer.
154	DIM_REG_AMORTIZATION_TYPE	Regulatory Amortization Type Dimension	This table stores the information regarding various regualtory amortization types.
155	DIM_REG_ATTRITION_REASON	Regulatory Attrition Reason Dimension	This table stores the various attrition reasons of a loan as prescribed by the regulator.
156	DIM_REG_CREDIT_LIMIT_TYPE	Regulatory Credit Limit Type Dimension	This reclassified table stores the list of credit limit types.
157	DIM_REG_INS_LOAN_TYPE	Regulatory Mortgage Insurance Loan Type Dimension	This tables stores the regulatory loan types based on the mortgage issurance issuers.
158	DIM_REG_LOAN_DELQ_STATUS	Regulatory Loan Delinquency Status Dimension	This table stores the various deliquency status of a loan as prescribed by the regulator.
159	DIM_REG_LOAN_SEGMENT	Regulatory Loan Segment Dimension	This tables stores the regulatory portfolios of loans segmented based on regulatory requirements.

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions
160	DIM_REG_MORT_INS_ISSUER	Regulatory Mortgage Insurance Issuer Dimension	This tables stores the regulatory mortgage insurance issuer values as required by the regulator.
161	DIM_REG_VALUATION_METHOD	Regulatory Valuation Method Dimension	This table stores the regulatory valuation method used to calculate the mitigant value.
162	DIM_SERVICED_LOAN_ACCOUNT	Serviced Loan Account Dimension	This table stores account summary. However only for those accounts which bank holds for servicing purpose only. These account may or may not be originated by bank.
163	DIM_STANDARD_IRC	Standard Interest Rates Dimension	This entity stores the standard interest rate curve definitions.
164	DIM_STD_BALANCE_CATEGORY	Standard Balance Category Dimension	This dimension entity stores the list of regulatory categories that a balance can have.
165	DIM_STD_CENTRAL_AUTHORITY	Standard Central Authority Dimension	This tables stores the central authorities like FRB, FDIC and so on.

3.1.11 Fact Tables/Entities

For all tables with data flow type tagged as a Processing, it is recommended that end users map data directly to result area if processing application is not part of OFSAA product suite. For example, Basel computations, RWA Numbers, and Capital Ratio are taken from processing area which is populated by OFSAA or other Basel application.

For processed tables, you can look for the following options:

- OFSAA Data Integration Hub (DIH) product
- Flat File
- Table-to-Table Transformation with source being processing application

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
1	FCT_ACCOUNT_MITIGANT_MAP	Fact Account Mitigant Map	This entity stores the account to mitigant mapping. It supports more than one mitigant to be mapped to an account.	Staging
2	FCT_ACCT_RECOVERY_DETAIL S	Fact Account Recovery Details	This entity stores the details of recoveries for each account.	Staging
3	FCT_ACCT_WRITE_OFF_DETAI LS	Fact Account Write Off Details	This entity stores the details of write-off for each account.	Staging
4	FCT_CARDS_SUMMARY	Fact Cards Summary	This table stores the contract summary of all active card accounts.	Staging, Results
5	FCT_COMMON_ACCOUNT_SUM MARY	Fact Common Account Summary	This table stores common account level information that usually comes as an input through staging.	Staging
6	FCT_CREDIT_LINE	Fact Credit Facility	This table stores the credit facility data. Credit facility is committed line of credit given to a customer who can have multiple draws / exposures out of a given credit line.	Staging, Results
7	FCT_LOAN_ACCOUNT_SUMMA RY	Fact Loan Summary	This table stores the details of loans. This table includes mortgage and vehicle loans.	Staging, Results
8	FCT_MITIGANTS	Fact Mitigants	This entity stores all the Mitigants and their details.	Staging
9	FCT_RECOVERY	Fact Recovery	This table stores the recovery details for all delinquent accounts.	Staging
10	FCT_REG_CAP_ACCOUNT_SU MMARY	Fact Regulatory Capital Account Summary	This table stores the regulatory capital for each account. Typically, this table is an input from Basel application.	Results

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
11	FCT_PARTY_FINANCIAL_DETAI	Fact Party Financial Detail	This entity stores the financial information (Balance-Sheet, Profit and Loss statement, and Ratios) in base and reporting currency of the parties like Customer and Guarantor.	Staging
12	FCT_PARTY_FINANCIALS	Fact Party Financials	This entity stores the financial information (Balance-Sheet, Profit and Loss statement, and Ratios) of the parties like Customer and Guarantor. Balance sheet is prepared as of a particular date (Balance sheet creation date).	Staging
13	FCT_PARTY_RATING_DETAILS	Fact Party Rating Details	This table stores the party rating details of the customer, guarantor, counterparty, and so on.	Staging
14	FCT_IFRS_ACCOUNT_SUMMAR Y	Fact IFRS Account Summary	This table stores the measures related to account that are computed by IFRS application.	Processed
15	FCT_ACCOUNT_POSTION_PAIR	Fact Account Position Pair	This table defines position pairings that relate a primary position and its offsetting position. The position pairs can be held in any manner (for example, cash or margin). It contains only active customer account positions.	Staging
16	FCT_ACCT_CUST_DETAILS	Fact LRM Account Customer Relationship Details	This entity stores the derived attribute at account and customer granularity (includes joint accounts).	Staging
17	FCT_ACCT_PLACED_COLL_MA P	Fact Account Placed Collateral Map	This table stores the account to placed collateral mapping. It is an intersection table to denote a placed collateral can be used in multiple account and an account contains multiple collateral.	Staging

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
18	FCT_COLL_PORTFOLIO_MTM_ DETAILS	Fact MTM Collateral Details	This table stores the MTM impact on derivative positions on a day- to-day basis.	Processed
19	FCT_COLL_PORTFOLIO_MTM_S UMMARY	Fact MTM Collateral Summary	This table stores the MTM impact on derivative positions at a cumulative level.	Processed
20	FCT_DEPOSITS_BORROWINGS	Deposits And Borrowings	This table stores all the deposit and other borrowings accounts of bank.	Staging, Results
21	FCT_IFRS_MITIGANTS_SUMMA RY	Fact IFRS Mitigants Summary	This table stores the valuation of Mitigants as per IFRS requirements. Mitigant definitions happen in DIM MITIGANT and this table serves as additional set of attributes for FACT MITIGANTS.	Processed
22	FCT_IFRS_PLACED_COLLATER AL	Fact IFRS Placed Collateral	This table stores the valuation of placed Collateral as per IFRS requirements. Placed Collateral definitions happen in DIM PLACED COLLATERAL and this table serves as additional set of attributes for FACT PLACED COLLATERAL.	Processed
23	FCT_LRM_ACCOUNT_SUMMAR Y	Fact LRM Account Summary	This table stores the details of the Account Derived in Liquidity Risk Management Solution.	Processed
24	FCT_LRM_PLACED_COLLATER AL	Fact LRM Placed Collateral	This table stores the liquidity specific procedded attributes for placed Collateral as per Liquidity Risk regulations. Placed Collateral definitions happen in DIM PLACED COLLATERAL and this table serves as additional set of attributes for FACT PLACED COLLATERAL.	Processed

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
25	FCT_MGMT_REPORTING	Fact Management Reporting	This table stores the management reporting data related to organization and product profitability/income statement/balance sheet.	Processed
26	FCT_PLACED_COLLATERAL	Fact Placed Collateral	This table stores the details of collateral which are placed against an account.	Staging
27	FCT_RATING_DWNGRD_COLL_ SUMMARY	Fact Rating Downgrade Collateral Summary	This entity stores the details regarding loss of Rehypothecation Rights due to a downgrade for a placed collateral.	Processed
28	FCT_RATING_DWNGRD_MTGN T_SUMM	Fact Rating Downgrade Mitigant Summary	This entity stores the details regarding loss of Rehypothecation Rights due to a downgrade for a mitigant.	Processed
29	FCT_REG_ACCOUNT_SUMMAR Y	Fact Regulatory Account Summary	This table stores the regulatory reclassifications and other information as required for regulatory reporting.	Results
30	FCT_LEGAL_ENTITY_DETAILS	Fact Legal Entity Details	This table stores the details of the legal entity.	Staging
31	FCT_REG_AGG_CASH_FLOWS	Fact Regulatory Aggregated Cashflows	This entity stores the aggregated cashflows for regulatory reporting purposes.	Results
32	FCT_REG_CUSTOMER_SUMMA RY	Fact Regulatory Customer Summary	This table stores the details at a customer level.	Results
33	FCT_REG_GL_CASH_FLOWS	Fact Regulatory General Ledger Cashflows	This table stores the cashflow details of general ledger accounts for regulatory reporting requirements.	Results
34	FCT_REG_MITIGANTS_SUMMA RY	Fact Regulatory Mitigants Summary	This table stores the cashflow groups required for FR2052 a reporting.	Results

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
35	FCT_REG_PLACED_COLLATER AL	Fact Regulatory Placed Collateral	This table stores the cashflow groups required for FR2052 a reporting.	Results
36	FCT_REG_RUN_LEGAL_ENTITY _MAP	Fact Regulatory Legal Entity Run Map	This table stores the reporting entity identifier for every regulatory reporting run.	Results
37	FCT_SUBST_PLACED_COLLATE RAL	Fact Substitutable Collateral	This entity stores the details of a collateral which has to be substituted.	Processed
38	FCT_SUBSTITUTABLE_MITIGAN TS	Fact Substitutable Mitigants	This entity stores the details of a mitigant which has to be substituted.	Processed
39	FCT_TRANSACTION_SUMMARY	Fact Transaction Summary	This table stores the transaction summary.	Results
40	FCT_TRD_ACCOUNT_TXN_SUM MARY	Fact Trading Account Transaction Summary	This entity stores all Fact Trading Account Transaction details.	Results
41	FCT_FIXED_ASSETS	Fact Fixed Assets	This fact table stores measures pertaining to assets. Fixed assets are physical assets such as Buildings, Land, Machinary, Automobiles, Gold bullion, and so on. They can be sold and appropriate profit/loss can be recognized based on appropriate accounting principles.	Staging
42	FCT_LLFP_ACCOUNT_SUMMAR Y	Fact Loan Loss Forecasting And Provision Account Summary	This entity stores loan loss forecasting and provision account summary. Typically this table is an input from loan loss forecasting and provision (Ilfp) application.	Processed
43	FCT_REG_ACCT_MITIGANT_MA PPING	Fact Regulatory Account Mitigant Mapping	This table stores the account mitigant mapping information.	Results

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
44	FCT_CR_CUSTOMER_SUMMAR Y	Fact Credit Risk Customer Summary	This entity stores the details of various measures pertaining to the customer.	Staging
45	FCT_ASSETS_SOLD	Fact Assets Sold	This table stores the data of assets sold over a period of time. For example, banks sells loans to other parties.	Staging
46	FCT_ENTITY_INFO	Fact Entity Information	This entity stores the information about the various entities in the Oraganization Structure of the Financial Institution.	Staging
47	FCT_FIDUCIARY_SERV_INVST_ SUMM	Fact Fiduciary Services Investmnet Summary	This entity stores the details of investments done through a fiduciary account.	Staging`
48	FCT_MERCHANT_BANKING	Fact Merchant Banking	This entity stores the details of issues associated with a fiduciary account.	Staging
49	FCT_MITIGANT_REG_CAPITAL	Fact Mitigant Regulatory Capital	This table stores the regulatory capital information related to mitigants.	Processed
50	FCT_REG_TRANSACTION_SUM MARY	Fact Regulatory Transaction Summary	This table stores the summary of regulatory transactions. For example, amount of securities sold or transferred from HTM to AFS.	Results
51	FCT_SECURITIZATION_POOL	Fact Securitisation Pool	This table stores the information on the securitization pool.	Processed
52	FCT_SEC_EXPOSURES	Fact Securitisation Exposures	This entity stores all the Securitisation Exposures for Basel II processing.	Processed
54	FCT_INSTR_PROPOSED_TXNS	Fact Instrument Proposed Transactions	This table stores the proposed set of instruments that are transacted by the Financial Institution.	Staging

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
55	FCT_NON_SEC_EXPOSURES	Fact Non Securitisation Exposures	This entity stores all the Securitisation Exposures.	Processed
56	FCT_NETTABLE_POOL	Fact Nettable Pool	This entity stores all Pools created for Netting.	Processed
57	FCT_PAYMENTS_SUMMARY	Fact Payment Summary	This entity stores the payment value, Receipt or inward value and Netted (payment and receipts) value aggregated at currency level in natural currency and reporting currency.	Results
58	FCT_CAP_INSTR_POSITIONS	Fact Capital Instrument Positions	This entity stores the regulatory position of capital instruments and details of treatment to capital instrument under Basel I and III regulations.	Staging
59	FCT_REG_EXP_MITIGANT_MAP PING	Fact Regulatory Exposure Mitigant Mapping	This table is planned for deprecation.	Processed
60	FCT_CP_CREDIT_QUALITY_SU MMARY	Fact Counterparty Credit Quality Summary	This table stores the output of CVA calculation done for a given counterparty.	Processed
61	FCT_MORT_SERV_RIGHTS	Fact Mortgage Servicing Rights	This tables stores the Mortgage Servicing Rights valuation information. Mortgage Servicing Rights values are typically book value, fair value, and so on.	Processed

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
62	FCT_REG_LE_CAPITAL_SUMMA RY	Fact Regulatory Legal Entity Capital Summary	This table stores the regulatory capital related information for the legal entity. This table stores all information from the GL related to the capital structure processing and the various levels of capital computations processed and computed by the application. This stores information at the granularity of the capital line item, for each capital component group. Some of the line items stored are Tier 1 Capital, Tier 2 Capital, Total Capital, and Capital Ratio.	Results
63	FCT_REG_CP_CAPITAL_SUMM ARY	Fact Regulatory Counterparty Capital Summary	This table stores all the regulatory capital related information of a counterparty. Some of the risk parameters in this table are probability of default and internal and external rating for the counterparty. This table is generally used for CVA calculations and default fund calculations.	Processed
64	FCT_REG_CAP_PLCD_COLL_S UMMARY	Fact Regulatory Capital Placed Collateral Summary	This table stores the information of all exposures to a bank which are placed collateral. The placed collateral by the bank is for default fund contribution or for other OTC transactions, with a central counterparty. It is generally used for cleared transactions and default fund contributions.	Processed

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
65	FCT_REG_CAP_POOL_SUMMA RY	Fact Regulatory Capital Pool Summary	This table stores the information of all exposures to a bank, which are at a pool level. Some of the pool identified for this table are OTC nettable pool and retail pools. This table stores the regulatory capital information related to these pools.	Processed
66	FCT_LOANS_SERVICED	Fact Loans Serviced	This table stores the details of loans serviced by bank. They may or may not be originated by the bank.	Staging
67	FCT_FUND_CIS_COMPOSITION	Fact Fund CIS Composition	This entity stores the composition of the Investment funds.	Staging
68	FCT_CAP_INSTR_TXNS	Fact Capital Instrument Transactions	This entity stores the transactions on the capital instruments.	Staging
69	FCT_CREDITRISK_ACCOUNT_S UMMARY	Fact Credit Risk Account Summary	This entity stores the different measures of exposures pertaining to Credit Risk Analytics.	Processed
70	FCT_LIQUIDITY_REPORTING	Fact Liquidity Reporting	This entity stores the measure to be reported for each of the Liquidity Reporting line. Reporting Measures are the amounts displayed in standard template prescribed by supervisor. For example, Reporting lines and measures mentioned in QIS Reporting Template reporting lines, reporting lines and measures mentioned in "Instructions for completing and submitting the Liquidity Monitoring Tool (4-G) template".	Processed

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
71	FCT_LIQUIDITY_REP_LINE_CO MMENT	Fact Liquidity Reporting Line Comments	This entity stores the comments for each of the Liquidity Reporting line. Reporting Lines are the standard template reporting lines prescribed by supervisor. For example, Reporting lines mentioned in QIS Reporting Template reporting lines, reporting lines mentioned in "Instructions for completing and submitting the Liquidity Monitoring Tool (4-G) template".	Processed
72	FCT_REG_EQ_INV_SUMMARY	Regulatory Equity Investmnet Summary	This table stores the summary of equity investments done by entity as per regulatory equity investment types.	Results
73	FCT_OTTI_FV_PROJECTIONS	Fact Other Than Temporary Impairment Fair Value Projections	This table store the assumptions to determination criteria and value for Other-than-temporary impairment for product investment.	Processed
74	FCT_OPSRISK_LOSS_PROJECT ION	Fact Operational Risk Loss Projection	This table stores the projection of operational losses across required measurement units and period for a given operational loss data category.	Processed
75	FCT_OTTI_FV_ASSUMPTIONS	Fact Other Than Temporary Impairment Fair Value Assumptions	This table stores the assumptions to determination criteria and value for Other-than-temporary impairment for product investment.	Processed
76	FCT_SCEN_VARIABLE_PROJEC TION	Fact Scenario Variable Summary	This table stores the projection of various variables for Enterprise Stress Testing or any other similar usage.	Processed

SI. No.	List of Seeded Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
77	FCT_CAP_INSTR_PROPOSED_ REDEEM	Fact Capital Instrument Proposed Redemption	This entity stores the proposed set of capital instruments that are redeemed or converted by the Financial Institution.	Staging
78	FCT_CAP_INSTR_PROPOSED_I SSUES	Fact Capital Instrument Proposed Issues	This entity stores the proposed set of capital instruments that are issued by the Financial Institution.	Staging
79	FCT_REGULATORY_PLANNED_ ACTION	Fact Regulatory Planned Actions	This table stores the impact of Planed Actions on various measures like capital, RWA, exposure, and so on that are required for Basel III and Dodd- Frank schedule. Financial Institutions must capture all material planned actions, including, but not limited to, the roll-off or sale of an existing portfolio, the issuance of regulatory capital instruments and other strategic corporate actions.	Processed
80	FCT_REPORTING_GROUP_OUT PUT	Fact Reporting Group Output	This entity stores the outputs at Reporting Group Level.	Processed
81	FCT_STANDARD_ACCT_HEAD	Fact Standard Accounting Head	This table stores the data as per the standard accouning heads.	Processed
82	FCT_CARDS_BALANCE_SUMMA RY	Fact Cards Balance Summary	This table stores the cards summary details of cards like eop bal, interest rate, current payment, and others against card balance category.	Staging
83	FCT_PFT_ACCOUNT_SUMMAR Y	Fact PFT Account Summary	This table stores the account level measures computed by the PFT application.	Processed

3.2 Mapping of Results to Reporting Requirements of Lombard Risk

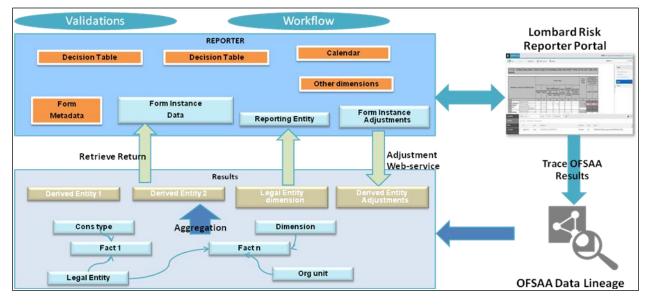


Figure 24 explains the flow of data between OFSAA and AgileREPORTER:

OFSAA provides the data to AgileREPORTER in the form of derived entities. Derived entity is an existing OFSAA higher order metadata object and can be physicalized as a materialized view in the database. Derived entities store aggregated data from base fact entities specified in the dataset and have the necessary dimensions and measures. Dimensional and measure combination stored within the derived entity is mapped to cells within the report. This mapping is maintained within the 'Dimensional mapping' template. 'Decision Process' within AgileREPORTER reads the derived entities and dimension mapping information to derive the data for reporting. Derived entities are created based on measures, hierarchies, and datasets.

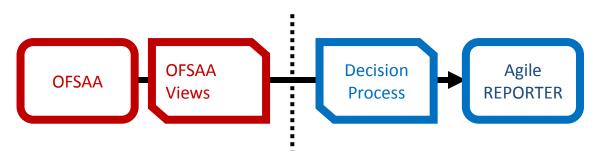


Figure 25: Decision Process in AgileREPORTER

Some cells in the schedule can be derived as per the logic provided by the regulator. Derivation can be an expression built using values from other cells. Examples of derivation are ratio, node-level rollup, direct reference to cells in other schedules within the report. These derivations are performed within the AgileREPORTER. OFSAA provides data only for the cells that are not derived.

Figure 24: Data Flow between OFSAA and AgileREPORTER

Note: Metadata for data transformation is available as part of the data ware house configuration pack provided Out-of-Box / pre-configured from OFSAA. You need not perform any mapping for the reports. However, this information can be useful for maintainance or extensions when Out-of-Box pack is not available.

3.3 AgileREPORTER: Submission

The AgileREPORTER is a web-based regulatory reporting tool provided by Lombard Risk. It provides necessary features to address e-filing workflow, validation and submission process, and supports reports (called as forms/returns) for various jurisdictions. AgileREPORTER provides a reliable and efficient infrastructure to compile, generate, and submit regulatory reports.

4 OFSAA Features

This chapter provides an understanding of the AAI components used in the solution and dimensional mapping. It includes:

- OFSAA Infrastructure
- Business Metadata
- Derived Entity
- Rules Run Framework Features
- Dimension Mapping

Regulatory Reporting (REG REP) Solution configures the data hand off structure to Lombard using metadata. The following sections provide details on datasets, measures, hierarchies and Derived Entities. Multiple derived entities are linked to a specific regulatory schedule. You can modify the configuration using OFSAA infrastructure. Additionally, metadata route provides traceability from reporting elements to the data elements used.

4.1 OFSAA Infrastructure

OFSAA Infrastructure includes the facilities for creating and maintaining dimensional reference data, interest rate and currency exchange rate data, and process tuning data. Additionally, OFSAA Infrastructure includes functionality for building and maintaining rules that can be used by any Oracle Financial Services Analytical Application. These common rule objects include:

- Expressions
- Hierarchies
- Filters

The analytical applications that you see on the Left Hand Side (LHS) of the Financial Services Applications home page depends on your logon privileges and on the OFSAA modules that are installed for your environment.

	cal Applications	📋 🔻 🍶 🔻 US-English V RRDFUSER V
Applications Object Administration System Configuration & Iden	tity Management	
Select Applications Financial Services Data Foundation	Financial Services Data Foundation Financial Services Data Foundation Data Model Management	Data Management Framework
Bata Management Framework Bunited Analytical Metadata Dimension Management Business Metadata Management	Manage Data Model Unified Analytical Metadata Define and maintain analytical metadata definitions	Manage Data movement using framework for Data Management Rule Run Framework Framework Framework to represent simple and complex business logic in to Rules. Process and Run paradigms
G Alias So Derived Entity ■ Dataset Messure	Operations Tools for Data Center operations	settings Settings
歸 Build Hierarchy ④ Dimension 輕 Business Processor	Metadata Browser Browse metadata lineage	
剧 Map Maintenance Expression 団 Filter		
Kanalytics Metadata Kanalytics Metadata		
Boperations Bettings Metadata Browser		

Figure 26: Landing Page

4.2 Business Metadata

In addition to Derived Entity, REG REP uses the following OFSAA features to create the business metadata. For details on the features, refer to <u>OFS Analytical Applications Infrastructure User Guide</u> in <u>OHC</u> documentation library.

- Hierarchies: Some OFSAA dimensions support hierarchies. Hierarchies can be used to provide sophisticated stratification for either processing or reporting purposes. For example, an organizational hierarchy can start with a Division level containing Western Region, Eastern Region, and Southern Region; the next level down within the hierarchy can be state or county. A product hierarchy can begin with branches for Asset vs.Liability vs. Service products; under the Asset branch, you can define additional branches for Mortgage Lending, Commercial Lending, Consumer Lending, and so on.
- Measures: Business Measure refers to a uniquely named data element of relevance which can be used to define views within the data warehouse. It typically implies aggregated information as opposed to information at a detailed granular level that is available before adequate transformations.
- **Business Processor**: It refers to a uniquely named data element of relevance which can be used to define views within the data warehouse. It typically implies aggregated information as opposed to information at a detailed granular level that is available before adequate transformations.
- **Datasets**: It refers to a group of tables whose inter-relationship is defined by specifying a join condition between the various tables. It is a basic building block to create a query and execute on a data warehouse for a large number of functions and to generate reports.

4.3 Derived Entity

It is the primary component of OFSAA used for OFSDF Interface with Lombard Risk for US FED. Regulatory Reporting (REG REP) Solution uses Derived Entity to create physical materialized view which is then queried by Lombard using pre-set data hand-off templates. An Entity refers to a table in which data is stored. Derived Entity within the infrastructure system facilitates you to define entities which are populated through a series of data transformation processes resulting from an existing Data Set or a Source Application. An Entity can be used to define other Business Metadata such as measures, hierarchies, dimensions, data sets, and cubes.

Derived Entities comprise the following:

- Measures
- Hierarchies
- Datasets

Ensure to define the above components within OFSAA before configuring the derived entity, and select **Materialized View** property in Derived Entity. This property creates the derived entity as materialized views.

Services Data Foundation ancial Services Data Foundation Data Model Management Data Management Framework Unlifed Analytical Metalata	Code	DE11BS01 Search	Derived Entity	
Data Model Management Data Management Framework	Code			
Data Management Framework	Code		Short Description	DE - BS-Common Account Summary
			Construction of March	DE Borconnion Account Summary
Unified Analytical Metadata	Long Description	DE - BS-Common Account Sun	nmary	
	Source Type	Dataset -	-	
Dimension Management	Aggregate	2	Materialize View	5
Business Metadata Management	Dataset Name			
@ Alias		DS11BS01 - DS - BS-Common	Account Summary	
Derived Entity	Application Name			÷
25 Measure	Source Name			*
Build Hierarchy			-	Construction and the second
Oimension	Metadata For Si 	urce Type		Selected Metadata Undrawn Amount - CAS
Business Processor	Hierarchies Measures		>	Calendar Date
Bi Map Maintenance	Business Pr	ocessors		Run Description
Expression		00000000		Org Structure Entity Code
G Filter	*		۰.	BP - Affiliated Issuer Party CAS
Save Metadata				Outstanding EOP Balance- Common Act
analytics Metadata				Non Interest bearing deposit Hierarchy
Rule Run Framework				Product Type Hierarchy
Operations				Frouder Type metalenty
Settings	New	Copy Delete Save	Reset Pro	operties Help
Metadata Browser				
Metadata Browser				

Figure 27: Derived Entity User Interface

Derived Entities must have AS_OF_DATE and LEGAL_ENTITY as the mandatory dimensions. Rest of the structure of the derived entity can vary depending on the dimensions present. A metadata configuration table is present in AgileREPORTER to link the name of the column in the derived entity and dimension that is referred in dimension mapping process.

Derived entities have data for the 'Final Reporting Run' only, which is reported to the Regulatory, and are refreshed for the latest hand-off date.

A metadata configuration table is maintained within AgileREPORTER to capture the derived entities that supply data for each schedule.

4.3.1 Creation of Derived Entity

Refer to <u>OFS Analytical Applications Infrastructure User Guide</u> in (<u>OHC</u>) documentation library for detailed steps on creating a derived entity.

4.3.2 User Roles

Following are the user roles for derived entity:

- Reporting Analyst: This user can create, modify, and delete a derived entity.
- Data Analyst: This user can view the derived entities.

4.4 Rules Run Framework Features

OFSDF Interface with Lombard Risk for US FED uses the following Rules Run Framework of OFSAA. For details on the features refer to <u>OFS Analytical Applications Infrastructure User Guide</u> in <u>OHC</u> documentation library.

 Rules: Financial institutions require constant monitoring and measurement of risk in order to conform to prevalent regulatory and supervisory standards. Such measurement often entails significant computations and validations with an organization's data. Data must be transformed to support such measurements and calculations. The data transformation is achieved through a set of defined Rules.

REG REP uses Rules for reclassification of dimensions.

- **Process**: A set of Rules collectively form a Process. A Process definition is represented as a Process Tree. The Process option in the Rules Run Framework provides a framework that facilitates the definition and maintenance of a Process. By defining a Process, you can logically group a collection of Rules that pertain to a functional process.
- **Run**: The Run feature in the Rules Run Framework helps you to combine various components and/or processes together and execute them with different underlying approaches. Further, run conditions and/or job conditions can be specified while defining a run.

4.5 Dimension Mapping

Each cell reference is mapped to a set of dimensions and measures. This mapping is documented in excel and then converted to a Decision table through an offline utility provided by AgileREPORTER. Decision table is a metadata object within AgileREPORTER that stores the criteria for deriving value for each cell reference. The metadata is packaged for regulatory report as part of the OFS Risk Regulatory Solution. Decision table process within AgileREPORTER reads the metadata and derived entity published by OFSAA to populate data required for returns for the specified date and legal entity.

The following table is an example of dimension mapping. Each cell reference is mapped to a set of dimension members and measure. If a dimension is left empty for a cell reference, it indicates that it is not participating in the mapping process. If there are multiple mappings for a cell reference, then the value of this cell can come from any of these criteria.

Decision mapping table is processed against the contents of derived entity to reporting data. Each record of the derived entity is matched against the criteria specified in the decision table to identify the cell reference and derive return data (such as, cell reference and cell value).

Cell References	Is Derived?	Product Type	Customer Type	Branch Country	Measure
BHCK1234	No	Real Estate Loans	Individuals	US	Amortized Cost
BHCK1235	No	Real Estate Loans	Individuals	Non-US	Amortized Cost
BHCK9088	Yes				
BHCK1598	No	Credit Cards	Individuals		Amortized Cost
BHCK7075	No		Foreign Banks	Non-US	Amortized Cost
BHCK7075	No		Sovereign	Non-US	Amortized Cost

Table 11: Dimension	Mapping Example 1
---------------------	-------------------

The following table is derived after converting the dimension member and measure names into corresponding dimension member codes (not surrogate keys) and measure codes. This decision table mapping is provided for each decision table in excel format as per template. AgileREPORTER converts the decision table mapping present in excel into configuration entries within their schema.

Cell References	Is Derived?	Product Type	Customer Type	Branch Country	Measure	
BHCK1234	No	RELO	IND	US	MREG0001	
BHCK1235	No	RELO	IND	Non-US	MREG0001	
BHCK9088	Yes					
BHCK1598	No	сс	IND		MREG0001	
BHCK7075	No		FB	Non-US	MREG0001	
BHCK7075	No		SOV	Non-US	MREG0001	

Table 12:	Dimension	Mapping	Example 2
	Dimension	mapping	

Note: All the dimension member codes that are used in the decision table are preseeded by OFSAA and cannot be modified. Therefore, if you have other member codes in the dimension, then you must re-classify them by using re-classification rule post load, or value-code mapping during load.

Decision tables must be prepared closer to the report submission period. In some cases, reclassification of multiple dimensions which result in a single unified reporting dimension must be performed in order to address the complexity of decision table. Reclassification rule is defined in OFSAA and packaged as part of OFSAA Risk Regulatory Reporting (REG REP) Solution.

In some cases, certain sections of the schedule or the entire schedule can be a list of data rows without any mapping to fixed set of dimension members. For example, Top 20 counterparties, List of Available for Sale (AFS) - securities. In such cases, since there are no cell references, decision table mapping specifies the names of dimensions and measures of derived entities in 'sheet' column or 'row' column of the template.

Note: As a part of the solution, metadata exists as out of box / pre-configured with installer.

5 Executing Run through Run Management

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

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

5.1 Summary and Details Page

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

5.2 Navigation within the Summary Page

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

- Search
- List of Runs

5.2.1 Search Section

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

elect Applications									
inancial Services Data Foundation	Financial Services Data Foundat	ion > Run Management > Run I	Kanagement						
					Run	Management Sum	imary		
Einancial Services Data Foundation	* Search								60
Ba Data Model Management						-			1801
Data Management Framework	Segment	FSDFSEG		<u></u>		Run Name			
Unified Analytical Metadata	Run Type			7					
Rule Run Framework				_					
🔺 📸 Run Management	* List of Runs							The Art of Larry	
Run Management	Run Name		Run Type	Created By	Created Date	Last Modified By	Last Modified Date	<u> </u>	f 2 19, 19, 19, 19, 19,
Operations	Financial Services Data 8	Foundation Execution Date	BASELINE RUN		12/09/2016	OFSAD	12/09/2016		
▶ B Settings	Financial Services Data #		BASELINE RUN		12/09/2016	01340	12/05/2010		
Metadata Browser	[U]								

Figure 28: Search Section

5.2.2 List of Runs Section

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

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

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

5.2.2.1 List of Runs Summary Grid

The following columns categorize each Run in the summary grid:

- Run Name: Displays the short name of the Run.
- **Run Type**: Displays the type of Run, Simulation or Baseline Run.
- Created By: Displays the name of the User who defined the Run.
- Creation Date: Displays the date on which the Run was created.
- Last Modified By: Displays the name of the user who has performed any modifications to the Original Run details.
- Last Modified Date: Displays the date on which the Original Run details were modified.

5.2.3 Navigation within Run Default Parameters Window

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

Run Management Summary											
* 5	earch										
Segr	nent F	SDFSEG V]		Rur	Name					
Run	Туре	·]								
	ist of Runs						1	■ 🛧 🔅 😳 🗣1 to 2 of 2	A. M. H. M.		
× L	Run Name	Run Type	Created By	Created Date	Last Modified	By Last Modified Date	A				
* L			EVENDAM	12/09/2016	OFSAD	12/09/2016					
	Financial Services Data Foundation Execution R	UN BASELINE RUN	STSADIVIN	1200012010							

Figure 29: Run Management Summary

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

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

5.2.3.1 Run Details Section

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

5.2.3.2 Run Execution Parameters Section

In this section, you can update the following:

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

Run Name	Financial Services Data Foundation Execution Run	
🛚 🎉 Run Execution Para	meters	
Reporting Currency *		
Legal Entity		

Figure 30: Run Parameters Window

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

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

- Legal Entity Code for Run (HFSDF001)
- Reporting Currency Code for Run (HFSDF002)
- **NOTE:** For further details on Save Hierarchy, refer to Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack 8.0.3.0.0 on OHC.

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

5.2.4 Navigation within Run Execution Parameters Window

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

Run Name		Financial Run	Services Data Foundation	n Sourced
* 🚢 Run Exe	cution Paramete	ers		
Reporting Currency	r *	USD		
Legal Entity		ОТН		
FIC MIS Date *		23/12/201	6	
Run Execution Des	cription	Source R	un	
		Save E	Close Close Created Date	12/09/2016
Audit Panel Created By	SYSADMN			Contraction and a second se

Figure 31: Run Execution Parameters Window

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

5.2.4.1 Run Details Section

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

* 🚉 Run Details		
Run Name	Reconciliation Difference Calculation	

Figure 32: Run Details

5.2.4.2 Run Execution Parameters Section

The following Run execution parameters can be updated:

- **Reporting Currency**: Reporting Currency Code parameter is used for calculation of amounts in Reporting Currency during Data Population.
- Legal Entity: Legal Entity Code parameter is used for identifying the legal entity, which is used for the Run.
- **FIC MIS Date**: Enter the extraction date in this field.
- Run Execution Description: Enter a longer description of the Run.

NOTE: To get the values for Reporting Currency parameter and Legal Entity parameter, you need to save the following hierarchies under Save Metadata screen:
 Legal Entity Code for Run (HFSDF001)
 Reporting Currency Code for Run (HFSDF002)

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

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

NOTE: For further details on Save Hierarchy and Batch Execution, refer to Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack 8.0.3.0.0 on <u>OHC</u>. To execute a Run, the execute run role should be mapped to your user profile. Currently, the users mapped under FSDF Admin or FSDF Operator User Groups automatically have this role.

5.2.5 Navigation within Run Execution Summary Page

Perform the following to view the Run Execution Summary.

Select a Run from the Run Management Summary page and click Run Execution Summary icon.

Run Type Created By Created Date Last Modified Date 🗸	USFEDSEG Run Name BASELINE RUN BASELINE RUN ist of Runs Run Type Run Name Created Date Ist of Runs Run Type				Run Man	nagement Summary		
BASELINE RUN ✓ Run Type Created By Created Date Last Modified Date ▼	Image: system in the	sea	arch				B D	
Run Type Created By Created Date Last Modified Date ∇	ist of Runs International Created By Created Date Last Modified Date ▼	Segmen	nt	USFEDSEG V	SEG 💌			
Run Type Created By Created Date Last Modified Date 🗸	Run Name Run Type Created By Created Date Last Modified Date 🗸	Run Type		BASELINE RUN	ASELINE RUN			
		Lis	t of Runs				= (* (* (* (* (* (* (* (* (* (* (* (* (*	1
m BASELINE RUN OFSAD 94/12/2017 OFSAD 04/12/2017	US FED Run BASELINE RUN OFSAD 04/12/2017 OFSAD 04/12/2017		Run Name	Run Type	Created By	Created Date	Last Modified	Last Modified Date 🛛 🗸
		~	US FED Run	BASELINE RUN	OFSAD	04/12/2017	OFSAD	04/12/2017
		•	UST CO Ruff	DAGELINE RUN	OFSAD	01/2/2017	UI SAU	04/12/2017



The Run Execution Summary page is displayed with the following sections.

ition Details in Skey ⊽	Run Execution Id 1483438100134	I Services Data Foundation NE RUN FIC MRS DATE 12/01/2016	Execution Status ONSONS	Run D Execution Date 01/03/2017	Time of Execution			1 to 1 of 1 (5) (T) (5)
	Run Execution Id	FIC MIS DATE			Time of Execution			
					Time of Execution			
					Time of Execution			
in Skey ⊽					Time of Execution	Rep		
	1483438100134	12/31/2016	ONGOING	01/03/2017			orting flag	Run Description
					15:38:28			Source Run
				Close				

Figure 34: Run Execution Summary

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

5.2.5.1 Run Execution Summary Section

The Run Execution Summary displays the following details:

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

5.2.5.2 Run Execution Details Section

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

- **Parameter details**: Click this icon to view the Run execution and Run default parameter details in read-only mode.
- **Copy**: Click Copy icon, to copy the parameters as defined in the *Run Execution Parameter* window to create a new batch.
- **Execute**: Click Execute icon to trigger the batch which has been created from the *Run Execution Parameter* window. The status of the triggered batch is displayed. In the Execution Summary page, multiple selections of the execution IDs are available to trigger a batch.
- **Request Report Flag**: To request for a Report Flag, select a Run Execution ID in the *Run Execution Summary* page and click **Request for Reporting Execution** icon. A dialog box appears to input your comments.

Click **Submit** and the status of this Run is displayed in the *Report Flag* section. Only a successful execution can be requested for reporting. For the selected Run and Execution date, there can be only one reporting flag.

- Override Report Flag: Any reporting execution can be overwritten with another execution. Select
 a successfully triggered batch in the *Run Execution Summary* page. The Override Report Flag
 icon is enabled, if an execution is already marked as a *Report Flag*. You can override the
 execution by updating your comments. This should be approved by the approver and the
 procedure is similar to the procedure detailed in the *Approve Report Flag* section.
- Approve Report Flag: After submitting the Reporting Run in the earlier section, the Approve Report Flag icon is enabled. After clicking the icon, a dialog box with the User Comments and Approver Comments is displayed. The Approver can update the comments in the Approver Comments field and then click Approve or Reject button accordingly.

5	
Reporting flag	Approve Report flag ption
-	BASEL RRR TEST 1

Figure 35: Approve Report Flag

5.2.5.3 Run Execution Grid

The Run Execution Details displays the following details:

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

6 Integrating OFSAA Processing Applications with OFS REG REP USFED

Regulatory Reporting uses processing output of each application. Customers who have licenses for the OFSAA applications can use the out-of-the-box integration to load the results area designed in OFS Data Foundation for each application output.

6.1 BASEL USFED Integration for Report Submission in OFS REG REP USFED

For Basel USFED integration, you must have OFSDF Basel and REG REP USFED installesd on the same INFODOM. Also, you must ensure that OFSDF and Basel are running the same version.

There are two ways to integrate Basel and OFS REG REP USFED:

1. Creating Integrated Run at Implementation Site

During implementation, you can merge the tasks of both BASEL and REG REP USFED and create an integrated Run to execute each time. The processes inside Run should be ordered as Basel first, then REG REP USFED, and finally the Basel REG REP USFED Integration process. In this Run, the Basel processing area and the FSDF results area tables must have the same Run SKEY across all tables.

- **NOTE:** For BASEL-USFED Integration Run, please use the FSDF Run Management screen as the **Request Report Flag**, **Override Report Flag**, and **Approve Report Flag** options are not available in the Basel Run Management Screen to enable the Reporting Flag.
 - 2. Using approved Basel Run Execution ID in USFED Run

In this case, you can use the out-of-the-box Basel Run as is for execution. After the execution, if the values are correct, you can execute the out-of-the-box REG REP USFED Run by selecting the required Basel Run SKEY from Run Management screen. In this case, Basel processing area has one RUN SKEY and for the same data, REG REP USFED has a different RUN SKEY in FSDF results area tables, where the data is getting reported.

Sample report generation is as follows:

- a. Login to Oracle Financial Services Analytical Applications interface with your credentails.
- b. Navigate to Applications → Financial Services Data Foundation → Run
 Management → Run Management

ect Applications ancial Services Data Foundation	*	Financial S	ervices Data Foundation 🤌	Run Management > Run	Management				
Tinancial Services Data Foundation						Run Man	agement Summary		
Data Model Management		4 Sea	rch						降 品
Data Management Framework		Segment		USFEDSEG	~		Run Name		
Il Unified Analytical Metadata Ware Run Framework		Run Typ		BASELINE RUN	~				
A 28		a List	of Runs					📕 🐟 🕫 🕰 🛛 💵 to 1 of 1	
ND Run Management		2	Run Name US FEO Run		Run Type BASELINE RUN	Created By OFSAD	Created Date 04/12/2017	Last Modified By OFSAD	Last Modified Date V 04/12/2017
 Ratio Scholar Bath Monter Bath Concellation Yes Lop Interscing Report > Softings Metastat Erowser 	ł								

Figure 36: Run Management

- c. Select the Run and click Run Execution Summary icon.
- d. The Run Details and Run Exectution Parameters Window is displayed.

^	Run Details					
Ru	in Name		US FED Run			
\$	🛚 💑 Run Execution Para	meters				
Re	eporting Currency *		USD			
Le	gal Entity					
Co	onsolidation Type		Consolidated	~		
Co	onsolidation Hierarchy		Default Org Structure Hiera	archy		
Ba	asel Run Execution Identifier	>				
FI	C MIS Date *					
	un Execution Description					
			Save	ecute		
			Save			
	un Execution Description	OFSAD	Save		04/12/2017	

Figure 37: Run Name and Run Execution Description

- e. Enter the **Run Name** and **Run Execution Description**. The **Basel Run Execution Identifier** and **FIC MIS Date** is auto-populated from the Basel Run report used.
- f. Click Execute.

NOTE: Resave Heirarchy **HFSDF004** after Basel execution for getting values in this Basel Run Execution Identifier.

00			
* Hierarchy			
Hierarchical			
Available Hierarchies	Selected Hierarc	hies	
Basel Run Execution Identifier for Run Financial Services Data Foundation Execution Run Financial Services Data Foundation Sourced Run US FED Run US FED Run USA-US III - Capital Calculation - FRB STD Agr-usal III - Capital Calculation - FRB STD Basel Run - ISASEL US STD Non ADV Ban for Run Skey : 1 Basel Run : US 04112017 test1 for Run Skey : 4 Basel Run : US 11042017 test2 for Run Skey : 5 Basel Run : US RUN 11042017 for Run		^	
Skey:3	~	~	
	OK Close		

Figure 38: Basel Run Details

g. Select only one **Basel Run** from the **Available Heirarchies** for the execution and click **OK**.

The Run Management Summary Window is displayed.

				Run Man	agement Summary			
Sea	rch							6 8
egmen		USFEDSEG	~		Run Name			
un Typ	e	BASELINE RUN	~					
List	of Runs					_ = ☆ ¢ @	⊒1 to 1 of 1	
	Run Name		Run Type	Created By	Created Date	Last Modified		Last Modified Date V
1	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017
	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017
	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017
1	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017
	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017
	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017
	US FED Run		BASELINE RUN	OFSAD	04/12/2017	OFSAD		04/12/2017

Figure 39: Run Management Summary

7 Metadata Export Utility

The Metadata Export Utility helps the user to export OFSAA metadata into Excel Sheet. This feature helps to get a view of OFSAA metadata and its dependencies. It is a template based approach where-in user creates templates and selects Metadata Objects that need to be extracted. The extraction process is supported only for Excel Sheet. While defining the template, user is expected to have prior knowledge of the OFSAA Metadata objects that are relevant from his application point of view.

7.1 Prerequisites

The following executions must be performed before using the Metadata Export Utility:

1. MDB Publish: Execute the batch, INFODOM_MDB

Logs: MDB logs are generated under deployed area /Context_Name/logs/MDB_XXXX.log

 Data Elements Wrapper Execution: After MDB Publish is completed succesfully with message "Metadata publishing is finished." in the /Context_Name/logs/MDB_XXXX.log, you must execute the Data Elements Utility with the following seeded batch to get the Data Lineage for each Metadata in OFSAA:

<INFODOM>_POP_DATA_ELEMENTS_USFED

Parameters used in DATA_ELEMENTS Batch

The batch can be executed in different modes according to each requirement. The following are the parameters used for executing the batch.

NOTE: This execution requires adequate tablespace. Ensure that your Atomic Schema is having enough tablespace in TEMP and USERS.

You can edit the parameters by accessing the Batch Maintainance screen.

- h. Login to Oracle Financial Services Analytical Applications interface with your credentails.
- i. Navigate to Applications \rightarrow Financial Services Data Foundation \rightarrow Operations \rightarrow

Batch Maintenance

			Batch Mai	ntenance						Θ
»Search										A
Batch ID Like	FSDFINFO_			Batch Description Like						
Module		~		Last Modification Date		Between		0	And	0
»Batch Name								8 97 8		71 - 80 / 138 C3 C3 C3 C
Batch ID 🔺		Batch Descript	tion			Batch Edit/Non Ed	it			
FSDFINFO_PARTY_FINANCIAL_DATA_POP		PARTY_FINAL	NCIAL_DATA_POP			E				
FSDFINFO_PARTY_FIN_DATA_POP_EC		Party Financia	Is Data Population Batch			E				
FSDFINFO_POP_DATALOAD_DIM		Populate Data	Load Package			E				
FSDFINFO_POP_DATA_ELEMENTS_USFED		Populates Dat	a Elemetns for USFED			E				
FSDFINFO_POP_DATES_DIM		Populate DIM	DATES			E				
FSDFINFO_POP_EXCHANGE_RATES		Populate fsi_e	xchange_rates with the exc	hange rate information for	each currency pair	E				
FSDFINFO_POP_HIERARCHY_FLATTENING		Populates RE	V_HIER_FLATTENED from	DRM Dimesnions		E				
FSDFINFO_POP_KEY_DIMENSION_SCD		SCD for Key D	Dimension Hierarchies of DR	RM Loader		E				
FSDFINFO_PRODUCT_PROCESSORS		Data Quality b	atch for PRODUCT_PROC	ESSORS group		E				
FSDFINFO_RATES		Data Quality b	atch for Rates tables			E				
»Task Details										1-1/1 C) C) D C
Task ID 🔺	Task Description		Metadata Value		Component ID			Preced	ence	
Task1	Populates Data Elements for USFED		Fn Data Elements Wra	pper	TRANSFORM DA	ТА				

Figure 40: Batch Maintenance

- j. Select Batch Name (<INFODOM>_POP_DATA_ELEMENTS_USFED)
- k. Select Task1 and click the Edit button. The Task Definiton Window is displayed.

		Task Definition		0		
»Task Definition						
Task ID	Task1	Description	Populates Data Elements for USFED			
Components	TRANSFORM DATA	~				
»Dynamic Parame	iters List					
Property		Value				
Datastore Type		EDW	~			
Datastore Name		FSDFINFO	FSDFINFO V			
IP Address		10.184.135.172	10.184.135.172			
Rule Name		Fn_Data_Elements_Wrap	Fn_Data_Elements_Wrapper			
Parameter List		'Y', Y', 'N', 'N', 'FSDFINFO', 'U	Y',Y',N','N','FSDFINFO','USFEDSEG','OFS_R			
		Save Close				
Audit Panel						
ated By:	OFSAD	Creation Date	24 mar 2017 15 :29 :37			
st modified by:	OFSAD	Last Modification Date	24 mar 2017 15 :29 :37			

Figure 41: Task Definition

I. Modify the **Parameter List** field as applicable.

NOTE:	The values must be in single quotes and comma separated for each value.
	Follow the same order as in this table.

SI. No.	Parameter	Description	List of Values	Default Value
1	P_METADATA_FLAG	Metadata Parser Flag	Y/N	'Υ'
2	P_REPORT_FLAG	Report Parser Flag	Y/N	'Υ'
3	P_MDR_USAGE_FLAG	Usage Parser Flag	Y/N	'N'
4	P_MDR_MD_DF_FLAG	Metadata to DataFlow Flag	Y/N	'N'
5	P_INFODOM_NAME	Infodom Name	##INFODOM##	<value of="" the<br="">Infodom where USFED is installed>. For example: 'USFEDINFO'</value>
6	P_SEGMENT_CODE	Segment Code	##SEGMENT##	<value of<br="">Segment Code which is used while installing</value>

SI. No.	Parameter	Description	List of Values	Default Value
				USFED>.
				For example:. 'USFEDSEG'
7	P_REG_APP_ID	Application Identifier	##APPID##	Application ID for US FED. For example:
				'OFS_REG_R EP_USFED'

- Metadata Parser Flag (P_METADATA_FLAG): By enabling this flag, the data elements utility parses all the Business Metadata like Business Hierarchies, Business Measures, Business Processes, Derived Entities, Datasets, Aliases and its lineage between them. It also parses Data Flow Metadata like T2Ts, SCDs, Rules, and the lineage between them.
- Report Parser Flag (P_REPORT_FLAG): By enabling this flag, the data elements utility parses all the Dashboards, Reports, Schedules, Views, and join these outputs with the Metadata which are already parsed through the Metadata Parser Flag (P_METADATA_FLAG).
 - **NOTE:** Even if this flag is enabled, the Dashboards which get parsed depend on the FSI_DE_POP_REPORT_LIST table in Atomic Schema. By default, all Dashboards are enabled and if you wish to parse particular Dashboards, modify the FSI_DE_POP_REPORT_LIST table by enabling / disabling the "Include Report Column". The following are the default Dashboards packaged.

DASHBOARD ID	JURISDICTION CODE	REPORT CODE	INCLUDE REPORT
1	USFED	FRY-9C	Y
2	USFED	FRY-9LP	Y
3	USFED	FFIEC-009	Y
4	USFED	FFIEC-009a	Y
5	USFED	FRY-15	Y
6	USFED	FRY-20	Y
7	USFED	FRY-12	Y
8	USFED	FRY-11	Y
9	USFED	FRY-11s	Y
10	USFED	FR-2314	Y

DASHBOARD ID	JURISDICTION CODE	REPORT CODE	INCLUDE REPORT
11	USFED	FR-2314s	Y
12	USFED	FR-2052A	Y
13	USFED	FR-2052B	Y
14	USFED	FRY-14Q	Y
15	USFED	FRY-14A	Y
16	USFED	FFIEC-031	Y
17	USFED	FR-2886B	Y
18	USFED	FFIEC-041	Y
19	USFED	FRY7N	Y
20	USFED	FFIEC101	Y
21	USFED	FR-2900	Y
22	USFED	FDIC-8020	Y
23	USFED	FRY-14M	Y
24	USFED	FR-2644	Y

- **NOTE:** After the Metadata Parsing is completed and if there are no further changes in Business Metadata and Data Flow Metadata, you can execute the batch by disabling the Metadata Parser Flag (P_METADATA_FLAG). Now the Metadata is not parsed again, but the Report newly enabled through FSI_DE_POP_REPORT_LIST table is parsed. If there is a change in Business Metadata and Data Flow Metadata, you need to enable the Metadata Parser Flag (P_METADATA_FLAG) and parse once again.
- Usage Parser Flag (P_MDR_USAGE_FLAG): By enabling this flag, the data elements utility parses all the Entities and joins these outputs with the Metadata which are already parsed through Metadata Parser Flag (P_METADATA_FLAG).
- Metadata to DataFlow Flag (P_MDR_MD_DF_FLAG): By enabling this flag, the data elements utility joins all the Business Metadata parsed output with Data Flow parsed output for all applications.
- Infodom Name (P_INFODOM_NAME): This is the value of the Infodom where OFS_REG_REP_USFED is installed. No need to modify this value.
- Segment Code (P_SEGMENT_CODE): This is the value of the Segment Code which is used while installing OFS_REG_REP_USFED. No need to modify this value.
- **Application Identifier (P_REG_APP_ID)**: This is the application identifier of the product (OFS_REG_REP_USFED). No need to modify this value.

Verifying Logs

Data Elements logs are generated in Atomic Schema under the **FSI_MESSAGE_LOGS** table.

Flag	Batch Run ID	Indication
P_METADATA_FLAG	METADATA_ELEMENTS	Processes Business Metadata. The message "Completed Over ALL Metadata" indicates that the Business Metadata parsing is complete.
P_METADATA_FLAG	ULTIMATE_METADATA_ELEME NTS	Calculates Ultimate Table/Column for Business Metadata. The message "Completed ULTIMATE_METADATA_ELEMENTS" indicates that the Business Metadata Ultimate elements parsing is complete.
P_METADATA_FLAG	DATA_FLOW_ELEMENTS	Processes Data Flow Metadata. The message "Completed Elements for DATA_FLOW_ELEMENTS" indicates that the Data Flow Metadata parsing is complete.
P_METADATA_FLAG	ULTIMATE_DATA_FLOW_ELEM ENTS	Calculates Ultimate Source Table/Column for Data Flow Metadata. The message "Completed ULTIMATE_DATA_FLOW_ELEMENTS " indicates that the Data Flow Metadata Ultimate elements parsing is complete.
P_METADATA_FLAG	POP_MDR_LINEAGE_METADAT A	Links Data Flow Metadata Lineage with Metadata Browser. The message "Completed MDR_METADATA Data Flow" indicates that the Metadata Lineage parsing is complete.

Flag	Batch Run ID	Indication
P_REPORT_FLAG	REPORT_ELEMENTS_OFS_RE G_REP_USFED	Processes Dashboard Elements from FSI_M_CELL_DIM_VAL and FSI_M_CELL_DEFN. The message "Completed REPORT_ELEMENTS for
		OFS_REG_REP_USFED" indicates that the Dashboard Metadata parsing is complete.
		Processes Dasbboard with Processed Business Metadata.
P_REPORT_FLAG	REPORT_TO_TARGET_MAP_O FS_REG_REP_USFED	The message "Completed REPORT_TO_TARGET_MAP for OFS_REG_REP_USFED" indicates that the Dashoboard to Business Metadata parsing is complete.
P_REPORT_FLAG	REPORT_TO_SOURCE_MAP_O FS_REG_REP_USFED	Processes Dasbboard with Processed MDR Lineage.
		The message "Completed REPORT_TO_SOURCE_MAP for OFS_REG_REP_USFED" indicates that the Dashboard to Data Flow Metadata parsing is complete.
P_REPORT_FLAG	POP_FINAL_ELEMENTS_OFS_ REG_REP_USFED	Processes Final Data Elements for USFED.
		The message "Completed POP_FINAL_ELEMENTS for OFS_REG_REP_USFED" indicates that all the Dashboard related Metadata parsing is complete.
P_MDR_USAGE_FLAG	DATA_FLOW_USAGE	Processes Data Flow Usage. The message "Completed Elements for DATA_FLOW_USAGE" indicates that the Data Flow Usage Metadata parsing is complete.

Flag	Batch Run ID	Indication
P_MDR_USAGE_FLAG	ULTIMATE_DATA_FLOW_USAG E	Calculates Ultimate Table/Column Usage for Data Flow Metadata. The message "Completed ULTIMATE_DATA_FLOW_USAGE" indicates that the Data Flow Ultimate Usage Metadata parsing is complete.
P_MDR_USAGE_FLAG	POP_MDR_LINEAGE_METADAT A	Links Data Flow Usage Lineage with Metadata Browser. The message "Completed MDR_METADATA Data Flow" indicates that the Data Flow Usage MDB Metadata parsing is complete.
P_MDR_MD_DF_FLAG	METADATA_TO_DATAFLOW	Processes Parsed Business Metadata joined with Parsed Data Flow Metadata. The message "Completed METADATA_TO_DATAFLOW" indicates that the Business Metadata to Data Flow Metadata parsing is complete.

Validating Lineage Outputs

In Atomic Schema, you must verify that data is present in the following tables and ensure that the table is populated:

- MDR_LINEAGE_METADATA
- FSI_DE_REPORT_SOURCE_DETL_MAP
- MDR_USAGE_METADATA (Optional, data is populated only if P_MDR_USAGE_FLAG is enabled.)
- FSI_DE_METADATA_SOURCE_DETAILS (Optional, data is populated only if P_MDR_MD_DF_FLAG is enabled.)

7.2 Create and Export Metadata Report Templates

Perform the following steps to create and export the Metadata Report Templates:

1. Navigate to Object Administration \rightarrow Utilities \rightarrow Metadata Report.

	tical Applications			
lications Object Administration System Configuration & I				
SDFINFO	Financial Services Analytical Applications Infrastructure > Object Administration > Utilitie • Search and Filter 📫 Go 🌙 Clear 🧠 Refresh	s > Metadata Report		
Einancial Services Analytical Applications Infrastructure Section 20 Sect Administration E Object Security	Template Ib 7 Template Name 7			
Object Migration	🚠 Template ID 👻 Template Name	Template Description	Created Date	Created By
Translation Tools	223483 sample		04-01-2017	OFSAD
🔺 🗇 Utilities	<			>
Metadata Difference				
Metadata Authorization				
G Metadata Report				
b Save Metadata				
Write Protected Batch				
Component Registration				
Contraction of the second seco				
A Patch Information				

2. Click Add icon, in Summary screen, to create a new Metadata Report Template.

🕫 Search and Filter 📫 Go 🌙 Clear 🏨 Refresh										
Template Template Name ?										
v Template List (1) 🖟 Add Delete 🗇 View 2 Edit Generate 3 Download										
Template ID	Template Name	Template Description	Created Date	Created By						
223483	sample		04-01-2017	OFSAD						
1)						

3. Provide the **Name** and **Description** for the new template in **Template Definition** page.

	Template Definition									
< Back	Definition Choose Ob	ject type Filter Objects	Review	Next >						
		Definition								
	Basic Details									
	Nam	e ND Test	×							
	Descriptio	n Tester								
	S	Save F Return								

4. Select the desired object from the **Object Type** dropdown to be exported.

Individual report generates only the basic properties of the object selected, that is, name and description. Relational report generates detailed information up to the Entities level, if

Dependencies is chosen; and up to the Staging Columns level, if Data Lineage is selected along with Dependencies.

Dependencies: Metadata object is dependent on several other metadata objects. Metadata object is also used (that is, consumed) in several other metadata objects. Dependency or usage tree can be of any depth. For example, a rule can be dependent on a hierarchy, business processor, and dataset. Further, each of these metadata objects can be dependent on other metadata objects. Metadata Export Utility exports all the dependent or used metadata objects for all paths in the dependency or usage tree, if this option is selected.

Lineage: Data is loaded from source systems to staging and then moved across to processing / reporting. Lineage traces the data element as it moves across different layers of OFSAA: staging, processing, and reporting. Metadata Export Utility exports the lineage of each of the reporting area data element that is identified by dependencies.

Financial Services Analytical Applications Infrastruc	ture > Object Administration > U	tilities > Metadata Rep	port							
Template Definition										
K Back	Definition Choose	se Object ty F	O ilter Objects	Review	Next 🔰					
		Choose Object	t type							
	Object Types									
	Choose	Dashboard ×								
	Export Options									
	Dependencies (\bigcirc								
	Data Lineage									
		Save 💌 F	Return							

For Individual: In the Export Options, do not select Dependencies or Data Lineage.

The exported sample report for Individual is as follows:

	A	В	С	D	E	F	-
1	CLASSIFICATION RULE DEF	CLASSIFICATION_RULE_NAME	CLASSIFICATION_RULE_DESC				
2	1465916940587	RRDF - 14Q FRY 9C Line Re- Classification	RRDF - 14Q FRY 9C Line Re- Classification				
3							
4							
5							
6							
7							
8							
9							
10							
11							-
н	🔸 🕨 Classification Rule 🦯 💱	7					🕨 🛛 .::

Financial Services Analytical Applications Infrastructure > Object Administration > Utilities > Metadata Report									
Template Definition									
Back Definition Choose Object ty Filter Objects Review	lext >								
Choose Object type									
Object Types									
Choose Dashboard ×									
Export Options									
Dependencies									
Data Lineage									
Save FReturn									
Save Return									

For Relational: In the Export Options, select Dependencies.

The exported sample report for Relational is as follows:

	А	В	С	D	E	F	G	Н		J	K	-
1	Path Name	Dependency										
2	Path1	Dashboard > Report > View > Hi	erarchy > E	intities >								
3	Path2	Dashboard > Report > View > De	board > Report > View > Derived Entity > Measure > Entities >									
4	Path3	Dashboard > Report > View > De	hboard > Report > View > Derived Entity > Hierarchy > Entities >									
5	Path4	Dashboard > Report > View > Derived Entity > Dataset > Alias > Entities >										
6	Path5	Dashboard > Report > View > De	erived Entity	/ > Dataset	> Entities	>						
7	Path6	Dashboard > Report > View > De	erived Entity	/ > Busines	s Process	or > Measu	ire > Entitie	s >				
8	Path7	Dashboard > Report > View > De	erived Entity	i > Busines	s Process	or > Datas	et > Alias >	Entities >				
9	Path8	Dashboard > Report > View > De	erived Entity	/ > Busines	s Process	or > Datas	et > Entities	s >				
10	Path9	Dashboard > Report > View > Re	eporting Ele	ment > Me	asure > En	tities >						
11	Path10	Dashboard > Report > View > Re	porting Ele	ment > Hie	rarchy > E	ntities >						
12	Path11	Dashboard > Report > View > Re	porting Ele	ment > De	rived Entity	> Measure	e > Entities	>				
13	Path12	Dashboard > Report > View > Re	porting Ele	ment > De	rived Entity	> Hierarch	y > Entities	s >				
14	Path13	Dashboard > Report > View > Re	eporting Ele	ment > De	rived Entity	> Dataset	> Alias > E	Entities >				
15	Path14	Dashboard > Report > View > Re	porting Ele	ment > De	rived Entity	> Dataset	> Entities >	>				
16	Path15	Dashboard > Report > View > Re	porting Ele	ment > De	rived Entity	> Busines	s Processo	r > Measur	e > Entities	s >		
17	Path16	Dashboard > Report > View > Re	porting Ele	ment > De	rived Entity	> Busines	s Processo	r > Dataset	> Alias >	Entities >		
18	Path17	Dashboard > Report > View > Re	porting Ele	ment > De	rived Entity	> Busines	s Processo	r > Dataset	> Entities	>		
19	Path18	Dashboard > Report > View > Re	porting Ele	ment > Bu	siness Pro	cessor > N	leasure > E	ntities >				
20	Path19	Dashboard > Report > View > Re	porting Ele	ment > Bu	siness Pro	cessor > D	ataset > Ali	ias > Entitie	es >			
21	Path20	Dashboard > Report > View > Re	porting Ele	ment > Bu	siness Pro	cessor > D	ataset > Er	ntities >				
22												Ų.
R A	Paths Path1 Path2	Path3 Path4 Path5 Pat	h6 / Path7	7 / Path8	/ Path 1							
14 4	Paths / Path / Path2	Z Patris Z Patri4 Z Patris Z Pat	no 🔬 Pathi		/ Pathy 4							

The first sheet shows the different Paths and their Dependencies upto the Entities level. Select the required **Path** sheet at the bottom to view the dependencies.

Each path tells how the dependency/usage is derived from dashboard to entity or vice versa involving various OFSAA object types like Derived Entity, Hierarchies, Datasets, Measures, and so on.

These paths are generated by the system using data already published in MDB dependency tables as part of OFSAA MDB object publish.

For every dependent object type displayed in each path sheet, the following columns are displayed:

- Object type name
- Object type description
- One or many Object specific properties (optional)

For example: In Path1, Dashboard is the first Object type, the dependencies generated are Dashboard Name, Dashboard Description, and Dashboard properties: Dashboard Country, Dashboard Regulator and so on. Similarly, Report is the next Object type in Path1 and the dependencies generated are Report Name, Report Description, Views Name, Views Description, View Display Format and so on. Then followed by Hierarchy Objects name, description and properties up to the Entities level.

	A	B	C	D	E	F.	G	Н		J
1	DASHBOARD_NAME	DASHBOARD_DESC	DASHBOARD_COUNTRY	DASHBOARD_REGULATOR	REPORT_NAME	REPORT_DESC	VIEWS_NAME	VIEWS_DESC	VIEW_DISPLAY_FORMAT	HIERARCHY_NAME
		Financial Statements of U.S.		Board of Governors of the Federal Reserve		Schedule BS?Balance Sheet		FRY-11-BS	Tabular	IFRS - Reported at fair Value Flag
		Financial Statements of U.S.		Board of Governors of the Federal Reserve		Schedule BS-M?Memoranda			Tabular	Reg delinquency band Hierarchy
		Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda			Tabular	Sale type code Hierarchy
		Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	IFRS - Fair Value RCY Hierarchy
		Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS	Schedule IS?Income Stateme		FRY-11-IS	Tabular	Consolidation Code
7	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS-B	Schedule IS-B?Changes in Al		FRY-11-IS-B	Tabular	Reporting Line Code
8	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Bands hierarchy
9	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Derivative Type Code Hierarchy
10	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Standard Party Type Hierarchy
11	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Balance Sheet Category Hierarchy
12	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Trading Account Book Type Code
13	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS-A	Schedule IS-A?Changes in Er	FRY-11-IS-A	FRY-11-IS-A	Tabular	Capital Instrument Transaction Typ
14	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Non Interest bearing deposit Hiera
15	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Accrual Status Code Hierarchy
16	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Reporting Line Code
17	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS-A	Schedule IS-A?Changes in Er	FRY-11-IS-A	FRY-11-IS-A	Tabular	Instrument type Hierarchy
18	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Regulatory Product Classification
19	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-A	Schedule BS-A?Loans and Le	FRY-11-BS-A	FRY-11-BS-A	Tabular	Reg delinquency band Hierarchy
20	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Balance Sheet Category Hierarchy
21	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Consolidation Code
22	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Holding Type Code Hierarchy
23	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Bands hierarchy
24	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Instrument type Hierarchy
25	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Buy or Sell Indicator Hierarchy
26	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-A	Schedule BS-A?Loans and Le	FRY-11-BS-A	FRY-11-BS-A	Tabular	Troubled Debt Restructure Flag Hi
27	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS	Schedule BS?Balance Sheet	FRY-11-BS	FRY-11-BS	Tabular	Other Real Estate Owned Flag Hir
28	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS-B	Schedule IS-B?Changes in Al	FRY-11-IS-B	FRY-11-IS-B	Tabular	Consolidation Code
29	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Reg Instrument Classification Hier
30	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Instrument type Hierarchy
31	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Risk Factor type code Hierarchy
32	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS-A	Schedule IS-A?Changes in Er	FRY-11-IS-A	FRY-11-IS-A	Tabular	Consolidation for Aggregation
13	FRY-11	Financial Statements of U.S.		Board of Governors of the Federal Reserve		Schedule BS-A?Loans and Le	FRY-11-BS-A	FRY-11-BS-A	Tabular	Negative Amortization Flag Hierar
14	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Customer Country Hierarchy
35	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-A	Schedule BS-A?Loans and Le	FRY-11-BS-A	FRY-11-BS-A	Tabular	Accrual Status Code Flag Hierard
6	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	IS	Schedule IS?Income Stateme	FRY-11-IS	FRY-11-IS	Tabular	Reporting Line Code
17	FRY-11	Financial Statements of U.S.	USA	Board of Governors of the Federal Reserve	BS-M	Schedule BS-M?Memoranda	FRY-11-BS-M	FRY-11-BS-M	Tabular	Reporting Line Code
10	Paths Path	Path2 Path3 Path4	LICA	Path8 Path9 Path10 Path11 F	90	Cohedula DCODalanaa Chaot		ERV 11 DC	Tabudar	Demilatory Destuat Classification

The Usage sample report (generated by default when Dependencies is selected) is as follows:

	A	В	С	D	E	F	G	H		J	K	
1	Path Name	Usage										
2	Path1	Columns > Hierarchy > View >	Report >I	Dashboard	>							
3	Path2	Columns > Measure > Derived	mns > Measure > Derived Entity > View > Report >Dashboard >									
4	Path3	Columns > Hierarchy > Derived	nns > Hierarchy > Derived Entity > View > Report >Dashboard >									
5	Path4	Columns > Measure > Business Processor > Derived Entity > View > Report > Dashboard >										
6	Path5											
7	Path6	Columns > Hierarchy > Reporti	ng Element	> View >	Report >I	Dashboard	>					
8	Path7	Columns > Measure > Derived	Entity > R	eporting Ele	ement > V	iew > Rep	ort >Dashb	oard >				
9	Path8	Columns > Hierarchy > Derived	Entity > F	Reporting E	lement > \	/iew > Rep	ort >Dash	board >				
10	Path9	Columns > Measure > Busines	s Processo	or > Derive	d Entity >	Reporting E	Element >	View > Re	port >Dasl	board >		
11	Path10	Columns > Measure > Busines	s Processo	or > Report	ing Elemer	nt > View	> Report >	Dashboard	>			
12												
13												
14												
15												-
14 4	▶ ▶ Paths Path1 Path2	/Path3 /Path4 /Path5 /Pat	:h6 🖉 Pathi	7 / Path8	/Path 🛙 🕯			Ш				

The first sheet shows the different Paths and their Usage upto the Dashboard level. Select the required **Path** sheet at the bottom to view the Usage.

	A	8	C	D	E	F	G	Н	the second s
1	COLUMNS NAME	COLUMNS_DESC	COLUMNS_PHYSICAL_COL_ID	HIERARCHY_NAME	HIERARCHY_DESC	HIER_TYPE	HIER_MULTI_DIM_PROPERTY	HIER_TOTAL_REQD	VIEWS_NAME
2	Transaction Account Flag		FCT_DEPOSITS_BORROWINGS.F_		Hierarchy for Trans Account Fla		REGULAR	Yes	FFIEC-031-RC-E
3	Repurchased Or Indemnified Flag	Indicates if the said account is Re	FCT LOAN ACCOUNT SUMMARY.	Repurchased or Indemnified Flag	Repurchased or Indemnified Fla	gBl	REGULAR	Yes	FFIEC-031-RC-P
4	Impairment Amount Under Asc 3	This column stores the impairment	FCT LOAN ACCOUNT SUMMARY.	Impair asc31030 Amount Check	Impair asc31030 Amount Chec	k BI	REGULAR	Yes	FRY-9C-HC-C
5	Troubled Debt Restructure Flag		FCT_LOAN_ACCOUNT_SUMMARY.				REGULAR	Yes	FFIEC-041-RC-O
6	Negative Amortization Flag	This column stores if loan has neg	FCT LOAN ACCOUNT SUMMARY.	Negative Amortization Flag Hiera	Negative Amortization Flag Hie	raBl	REGULAR	Yes	FFIEC-031-RC-C
7	Mortgage Broker Surrogate Key	This stores unique identifier for the	FCT LOAN ACCOUNT SUMMARY	Broker Skey Hierarchy	Broker Skey Hierarchy	BI	REGULAR	Yes	FFIEC-031-RC-P
8	Cleared Transaction Flag	This columns stores if particular tr	FCT REG ACCOUNT SUMMARY F	Cleared Transaction Flag Hierard	Cleared Transaction Flag Hiera	rc Bl	REGULAR	Yes	FFIEC-031-RC-R Part II
9	Cleared Transaction Flag	This columns stores if particular tr	FCT_REG_ACCOUNT_SUMMARY.F	Cleared Transaction Flag Hierard	Cleared Transaction Flag Hiera	rc Bl	REGULAR	Yes	FRY-15-D
10	Mark To Market Value In Reporti	This stores the mark to market val	FCT REG ACCOUNT SUMMARY N	Mtm Value-FRAS Hierarchy	Hierarchy Mtm Value-FRAS	BI	REGULAR	Yes	FRY-15-B
11	Broker Surrogate key	This stores unique identifier for the	FCT_DEPOSITS_BORROWINGS N	Broker Hierarchy Deposit Borow	Broker Hierarchy Deposit Boron	wi BI	REGULAR	Yes	FFIEC-031-RC-E
.12	Callable Deposit Indicator	Indicates if said deposit can be ca	IFCT DEPOSITS BORROWINGS.F	Deposit Option Indicator Hierarch	Deposit Option Indicator Hierar	ch BI	REGULAR	Yes	FFIEC-031-RC-E
13	Impairment Amount Under Asc 3	This column stores the impairment	FCT LOAN ACCOUNT SUMMARY	Impair asc31030 Amount Check	Impair asc31030 Amount Chec	k Bl	REGULAR	Yes	FFIEC-031-RC-C
14	Troubled Debt Restructure Flag	This column indicates if said loan	FCT LOAN ACCOUNT SUMMARY.	Troubled Debt Restructure Flag I	Troubled Debt Restructure Flag	FBI	REGULAR	Yes	FRY-9C-HC-N
15	Troubled Debt Restructure Flag	This column indicates if said loan	FCT LOAN ACCOUNT SUMMARY	Troubled Debt Restructure Flag I	Troubled Debt Restructure Flag	FBI	REGULAR	Yes	FFIEC-041-RC-C
16	Troubled Debt Restructure Flag	This column indicates if said loan	FCT LOAN ACCOUNT SUMMARY.	Troubled Debt Restructure Flag I	Troubled Debt Restructure Flag	FBI	REGULAR	Yes	FFIEC-031-RC-O
17	Negative Amortization Flag	This column stores if loan has neo	FCT LOAN ACCOUNT SUMMARY.	Negative Amortization Flag Hiera	Negative Amortization Flag Hie	ra Bl	REGULAR	Yes	FFIEC-041-RC-C
18	Cleared Transaction Flag	This columns stores if particular tr	FCT REG ACCOUNT SUMMARY F	Cleared Transaction Flag Hierard	Cleared Transaction Flag Hiera	rc Bl	REGULAR	Yes	FFIEC-041-RC-R Part II
19	Mark To Market Value In Reporti	This stores the mark to market val	FCT REG ACCOUNT SUMMARY.N	Mtm Value-FRAS Hierarchy	Hierarchy Mtm Value-FRAS	BI	REGULAR	Yes	FRY-15-F
20	Broker Surrogate key	This stores unique identifier for the	FCT DEPOSITS BORROWINGS.N	Broker Hierarchy Deposit Borow	Broker Hierarchy Deposit Boro	m BI	REGULAR	Yes	FFIEC-041-RC-E
21	Troubled Debt Restructure Flag	This column indicates if said loan	FCT LOAN ACCOUNT SUMMARY	Troubled Debt Restructure Flag I	Troubled Debt Restructure Flag	FBI	REGULAR	Yes	FRY-9C-HC-C
22	Mortgage Broker Surrogate Key	This stores unique identifier for the	FCT LOAN ACCOUNT SUMMARY.	Broker Skey Hierarchy	Broker Skey Hierarchy	BI	REGULAR	Yes	FFIEC-041-RC-P
23	Mortgage Broker Surrogate Key	This stores unique identifier for the	FCT LOAN ACCOUNT SUMMARY.	Broker Skey Hierarchy	Broker Skey Hierarchy	BI	REGULAR	Yes	FRY-9C-HC-P
24	Claim Local Currency Code	Refers to the Local currency code	FFCT REG ACCOUNT SUMMARY V	Currency Code Comparison Hier	Currency Code Comparison His	er: Bl	REGULAR	Yes	FFIEC-009-C. Part II
25	Cross Border Claim indicator	Indicates if said claim is cross bro	FCT REG ACCOUNT SUMMARY F	Cross Border Claim Hierarchy	Cross Border Claim Hierarchy	BI	REGULAR	Yes	FFIEC-009-C. Part II
26	Transaction Account Flag	Indicates if said account is consid	FCT DEPOSITS BORROWINGS F	Trans Account Flag Hierarchy	Hierarchy for Trans Account Fla	ac BI	REGULAR	Yes	FRY-9C-HC-E
27	Deposit Call Exercised Indicator	This Column Stores the Deposit C	FCT DEPOSITS BORROWINGS.F	Next Option Flag Deposit Borrow	Next Option Flag Deposit Borro	W BI	REGULAR	Yes	FFIEC-031-RC-E
28	Troubled Debt Restructure Flag	This column indicates if said loan	FCT LOAN ACCOUNT SUMMARY	Troubled Debt Restructure Flag I	Troubled Debt Restructure Flag	FBI	REGULAR	Yes	FRY7N-BS-A
29	Troubled Debt Restructure Flag	This column indicates if said loan	FCT LOAN ACCOUNT SUMMARY.	Troubled Debt Restructure Flag I	Troubled Debt Restructure Flag	FBI	REGULAR	Yes	FR-2314-BS-A
30	Negative Amortization Flag	This column stores if loan has neo	FCT LOAN ACCOUNT SUMMARY.	Negative Amortization Flag Hiera	Negative Amortization Flag Hie	ra Bl	REGULAR	Yes	FRY-11-BS-A
31	Recourse to General Credit	This stores the recourse to genera	FCT REG ACCOUNT SUMMARY F	Recourse To General Credit India	Recourse To General Credit Inc	fic BI	REGULAR	Yes	FFIEC-041-RC-V
32			FCT REG ACCOUNT SUMMARY N				REGULAR	Yes	FFIEC-041-RC-R Part II
			FCT_REG_ACCOUNT_SUMMARY N				REGULAR	Yes	FRY-9C-HC-M
34			FCT DEPOSITS BORROWINGS.N				REGULAR	Yes	FRY-9C-HC-E
35			FCT DEPOSITS BORROWINGS N				REGULAR	Yes	FFIEC-031-RC-O
36			AFCT DEPOSITS BORROWINGS F				REGULAR	Yes	FFIEC-041-RC-E
			FCT DEPOSITS BORROWINGS.N		Deposit List Skey Hierarchy	BI	REGULAR	Yes	FFIEC-041-RC-E
50	Durchase Date Vari	This ashume stores the data as us	ECT LOAN ACCOUNT SUMMADY	Annulaitian Data	Missachu fas Annuisitian Data	D1	DECLEAD	Yas	ERV OF HE C
14	Paths Path1 Path2	Path3 Path4 Path5 Path	5 Path7 Path8 Path9 Path1			_	4		

Select **Data Lineage** in **Template Definition** \rightarrow **Choose Object Type** to export the lineage details up to the Staging Columns level.

Financial Services Analytical Applications Infrastructure > Object Administration > Utilities > Metadata Report									
Template Definition									
Back O O Next > Definition Choose Object ty Filter Objects Review									
Choose Object type									
Object Types									
Choose Dashboard ×									
Export Options									
Dependencies									
Save 🛛 Return									

NOTE: Data Lineage can be selected only if Dependencies is opted.

NOTE: Data Lineage is generated as a separate sheet in the generated Relational report along with the Dependencies. Select the **Lineage** sheet to view the Data Lineage (up to Staging column level).

	*	DR ERVOCIUS E Report	xls [Read-Only] [Compatibi	Phylipped Discourse Front		- 0 -×-
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A	В	С	D	F	F	G
1 SCHEDULE	VIEW		DERIVED ENTITY CODE	METADATA CODE	RESULT AREA TABLE	RESULT AREA COLUMN
2 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03	FCT REG ACCOUNT SUMM	AFN REG DEPOSIT TYPE SK
3 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN REG DEPOSIT TYPE SK
4 HC-E	FRY-9C-HC-E	BHOD6648	DERHCE03	DSRHCE03	FCT REG ACCOUNT SUMM	AFN REG DEPOSIT TYPE SK
5 HC-E	FRY-9C-HC-E	BHOD2389	DERHCE03	DSRHCE03		AFN REG DEPOSIT TYPE SK
6 HC-E	FRY-9C-HC-E	BHOD2604	DERHCE03	DSRHCE03	FCT REG ACCOUNT SUMM	IAFN REG DEPOSIT TYPE SK
7 HC-E	FRY-9C-HC-E	BHOD2389	DERHCE03	DSRHCE03	FCT REG ACCOUNT SUMM	IAFN REG DEPOSIT TYPE SK
8 HC-E	FRY-9C-HC-E	BHOD6648	DERHCE03	DSRHCE03	FCT_REG_ACCOUNT_SUMM	AFN_REG_DEPOSIT_TYPE_SK
9 HC-E	FRY-9C-HC-E	BHCB2389	DERHCE03	DSRHCE03	FCT_REG_ACCOUNT_SUMM	IAFN_REG_DEPOSIT_TYPE_SK
10 HC-E	FRY-9C-HC-E	BHCB2210	DERHCE03	DSRHCE03	FCT_REG_ACCOUNT_SUMM	IAFN_REG_DEPOSIT_TYPE_SK
11 HC-E	FRY-9C-HC-E	BHDMA164	DERHCE03	DSRHCE03	FCT_REG_ACCOUNT_SUMM	IAFN_REG_DEPOSIT_TYPE_SK
12 HC-E	FRY-9C-HC-E	BHCB2389	DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
13 HC-E	FRY-9C-HC-E	BHOD2389	DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
14 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03	FCT_REG_ACCOUNT_SUMM	IAFN_REG_DEPOSIT_TYPE_SK
15 HC-E	FRY-9C-HC-E	BHCB6648	DERHCE03	DSRHCE03	FCT_REG_ACCOUNT_SUMM	IAFN_REG_DEPOSIT_TYPE_SK
16 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
17 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
18 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
19 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
20 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
21 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
22 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
23 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
24 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03	FCT_LEGAL_ENTITY_DETAIL	
25 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
26 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
27 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
28 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
29 HC-E	FRY-9C-HC-E		DERHCE03	DSRHCE03		IAFN_REG_DEPOSIT_TYPE_SK
30 HC-F H + H Paths Path	FRY-9C-HC-F h1 / Path2 / Path3 / Path4 / Path	BHCB2389 h5 / Path6 / Path7 Lineage / 🐑 /	DERHCE03	DSRHCE03		IAEN REG DEPOSIT TYPE SK
Ready						100% 🕤 🗸 🕀

5. Select Filter Objects to see the selected objects.

Financial Services Analytical Applications Infrastructure > Object Administration > Utilities > Metadata Report				
Template Definition				
< Back O Image: Constraint of the second secon				
Filter Objects				
Dashboard				
Save Feturn				

6. Select one Filter Object from the Available Objects and Click to add a Selected Object. Select one Selected Object from the Available Objects and click to remove a Filter Object.

	Template D	efinition	
Dashboard			
Available Objects		Selected Object	ts
FR-2314		FRY-9C	
► FR-2314s			
FR 2052a	<		
🗎 FR 2052b			
FRY-14Q			
FRY-14A			
FFIEC-031			
FR-2886B			
FFIEC-041			
FRY7N FRY-9LP			
	~		
FFIEC101	¥.		
Search	Q		ОК
	<u> </u>		on

When the object list is huge, use the Search option as shown above. Type first three letters of the Filter Object name and the relevant Filter Objects is displayed.

Dashboard			
Available Objects		Selected Obj	ects
 FRY7N FRY-9LP FRY-14M FRY-15 FRY-20 FRY-12 FRY-11 FRY-118 FRY-14Q FRY-14A 	> <	FRY-9C	
FRY X C	2		OK

NOTE: You can type the complete Filter Object name to select and add to the Selected Objects.

7. Review the **Template Definition** once and click **Save**.

		Template Definition		
	< Back Def	Choose Object ty Filter Objects	Review	Next >
		Review		
	Object Identifier	Object Name		Object Type
0	1482689198163	FRY-9C		Dashboard
	<			>
Page	1 of 1 (1 of 1 items)	к < 1 > я		
		Save 🔽 Return		

8. Click Return to go to the Summary page.

Financial Services Analytical Applications Infrastructure > Object Administration > Utilities > Metadata Report						
Search and Filter 🖨 Go 🌙	Clear 🐘 Refresh					
Template	Template Name ?					
🛛 Template List (2) 🗔 Add 🍪	v Template List (2) 🗟 Add 🧶 Delete 🗟 View 🖉 Edi 🕅 Generate 🖏 Download					
🔏 Template ID 🔻	Template Name	Template Description	Created Date	Created By		
223484	NDTest	Tester	05-01-2017	OFSAD		
223483	sample		04-01-2017	OFSAD		
<				>		

9. Select a **Template** in the **Template List** in **Summary** screen and click **Generate** to export the desired objects in Excel Sheet format.

NOTE: MDB Publish must be triggered before executing the Generate option.

10. The Report Generation function is an asynchronous action and to check the status of the export function, use the **Refresh** option in **Summary** screen.

Financial Services Analytical Application : Infraeduction > Object Administration > Utilities > Metadala Report Search and Filter 🗘 Go 🗟 Clear 🏡 Refresh Template ID ? Template Name ?							
Template List (2) Add	🕲 Delete 🔁 View 🧧	Edit Generate 🖹 Download					
ate Name	1	emplate Description	Created Date	Created By	Statu	s	
	Tester		05-01-2017	OFSAD	Not Started		
			04-01-2017	OFSAD	Not Started		
<						>	

For Excel Export, the following are the Status values:

- **Not Started**: The Report Generation is yet to start, but the function has triggered the action in the background.
- **Ongoing**: The Report Generation is started and in process.
- **Completed**: The Report Generation is completed and ready to view or download.

• Failed/Partially Completed: The Report Generation encountered an issue and the process is partially completed or failed.

NOTE: The export logs are generated and placed in the path

/Context_Name/logs/MDB_XXXX.log.

Log files give the following information:

- a) All Paths query
- b) Query for each path and if data present for this path
- c) Lineage query
- d) Status of excel output creation
- e) Exceptions and errors, if any
- 11. Select a **Template** in the **Template List** in **Summary** screen and click **Download** to save a copy of the generated Metadata Report Templates excel sheet, after the export status shows as completed.



User Access:

The following user groups are pre-seeded in the component that helps user to get access to the Metadata Report Extract screen.

- MDR View Group: Helps users to see Metadata Report Extract with View permissions.
- MDR Owner Group: Helps users to create templates in Metadata Report Extract.

7.3 View Metadata Report Templates

Perform the following steps to view the Metadata Report Templates:

- 1. Select a Template in the Template List in Summary screen.
- 2. Click **View** icon to view the generated Metadata Report Templates excel report (after the export status shows as completed).

Financial Services Analytical Applications Infrastructure > Object Administration > Utilities > Metadata Report							
🔹 Search and Filter 🛛 🖨 Go 🌙 Cl	lear 🖳 Refresh						
Template Template III ? Name ?							
× Template List (2) 🗟 Add 🔞 De	elete 🛃 View 🔮 Edit 📧 Generate Sownload						
L Template ID ▼	Template Name	Template Description	Created Date	Created By			
✓ 223484 NE	DTest	Tester	05-01-2017	OFSAD			
223483 sa	mple		04-01-2017	OFSAD			
<				>			

NOTE: The Metadata Report Templates excel report is opened in view-only mode.

7.4 Modify/Edit Metadata Report Templates

Perform the following steps to edit or modify the Metadata Report Templates:

- 1. Select a Template in the Template List in Summary screen.
- 2. Click **Edit** icon to modify the generated Metadata Report Templates excel report (after the export status shows as completed).

Financia	I Services Analytical Ap	plications Infrastructure > Object Administration > Utilit	ties > Metadata Report				
× Sear	ch and Filter 🖨 Go	Clear 🖳 Refresh					
	Template Template Name ?						
* Temp	olate List (2) 🗔 Add 🚺	🕽 Delete 🗟 View 🛃 Edit 🔀 Generate 🖳 Download					
ž	Template ID	Template Name	Template Description	Created Date	Created By		
✓	223484	NDTest	Tester	05-01-2017	OFSAD		
	223483	sample		04-01-2017	OFSAD		
<					>		

7.5 Delete Metadata Report Templates

Perform the following steps to delete the Metadata Report Templates:

- 1. Select a Template in the Template List in Summary screen.
- 2. Click **Delete** icon to delete the Metadata Report Templates.

Financial S	ervices Analytical App	lications Infrastructure > Object Administration > Utilities	> Metadata Report				
Search	and Filter 🛛 🖨 😽	Clear 🖳 Refresh					
Template ID ?		Template Name ?					
* Templa	* Template List (2) 🐼 Add 🔮 Delete 🔂 View 🗹 Edit 🔣 Generate 🥦 Download						
*	Template ID 🔹	Template Name	Template Description	Created Date	Created By		
✓ 2	23484	NDTest	Tester	05-01-2017	OFSAD		
2	23483	sample		04-01-2017	OFSAD		
<					>		

8 Report Submission

This chapter provides an understanding of the report submission process. It includes:

- Report Submission: AgileREPORTER to Regulator
- Edit Checks/ Validity Check/ Quality Checks
- <u>Report Templates to be used in AgileREPORTER</u>

8.1 Report Submission: AgileREPORTER to Regulator

After OFSAA has prepared and hands off the data as required to Lombard Risk, the subsequent activities are performed within the AgileREPORTER.

Lombard takes care of the report format as per the regulatory requirement which may be eXtensible Business Reporting Language (XBRL)/ XML/ Excel / .Data/ XML and so on.

8.2 Edit Checks/ Validity Check/ Quality Checks

The AgileREPORTER carries out the report level / submission check comprising Edit Chceks / Validity Checks / Quality Checks as provided by the regulator.

Note: Refer to the AgileREPORTER user documentation provided by Lombard Risk, for details of activities within the AgileREPORTER.

8.3 Report Templates to be used in AgileREPORTER

The report templates to be used in AgileREPORTER are listed as follows:

a.	FFIEC 009A	FFIEC009A_V1
b.	FFIEC 009	FFIEC009_V1
C.	FR 2052B	FR2052B_V1
d.	FR 2314S	FR2314S_V2
e.	FR 2314	FR2314_V2
f.	FR Y-11S	FRY11S_V2
g.	FR Y-11	FRY11_V2
h.	FR Y-12	FRY12_V2
i.	FR Y-14A OR	FRY14AOR_V2
j.	FR Y-14A RCI	FRY14ARCI_V1
k.	FR Y-14A RCT	FRY14ARCT_V2
I.	FR Y-14A SCENR	FRY14ASCENR_V1
m.	FR Y-14A SUMM	FRY14ASUMM_V3
n.	FR Y-15	FRY15_V3
0.	FR Y-20	FRY20_V2

p.	FR Y-9C	FRY9C_V5
q.	FR Y-9LP	FRY9LP_V1
r.	FFIEC 101	FFIEC101_V2
s.	FFIEC 031	FFIEC031_V7
t.	FFIEC 041	FFIEC041_V7
u.	FR Y-7N	FRY7N_V1
v.	FR 2900	FR2900_V3
w.	FR 2052a	Data schedule (No template)
x.	FR 2644	FR2644_V2
у.	FDIC 8020	FDIC8020_V1
z.	FR Y-14Q FVO/HFS	- FRY14QFVOHFS_V2
aa.	FR Y-14Q CIL	- FRY14QCIL_V1
bb.	FR Y-14Q CRE	- FRY14QCRE_V1
cc.	FR Y-14Q Balances	FRY14QBAL_V2
dd.	FR Y-14Q PPNR	FRY14QPPNR_V2
ee.	FR Y-14Q Supplemental	FRY14QSUPMNT_V2
ff.	FR Y-14Q Retail	FRY14QRETAIL_V1
gg.	FR Y-14Q Wholesale	Data schedule (No template)
hh.	FR Y-14M	Data schedule (No template)

8.4 Supported Report Template Version and Activation Date

The AgileREPORTER contains the details of the Report template version and the activation date of the same. This can be accessed by selecting the Entity setup option in the Settings Menu which enables the user to Add, Modify, and Delete Entitites. Click on a created Entity to access report templates according to version and the activation date, and assign the necessary privilages as required.

tity and Return Administration						Deleted Entities Hide 🖤 Shi Timport The Sport
	Entity Setup	,			×	Add new entity
	Entity: US Can be used for	r reporting?		Delete Yes		
	Edit Entity	Assign Returns	Variable			
	- Pric	COUSA VI	U0/14/2010	Assign priv	ileges	
	FFIE	C009A v2	06/14/2016	Assign priv	ileges ^	
	FFIE	C030 v3	06/14/2016	Assign priv	ileges	
	FFIE	C031 v1	06/14/2016	Assign priv	ileges	
	FFIE	C031 v2	06/14/2016	Assign priv	leges	
	FFIE	C031 v3	06/14/2016	Assign priv	lleges	
	FFIE	C031 v4	06/14/2016	Assign priv	ileges	
	FFIE	C031 v5	06/14/2016	Assign priv	ileges	
		C031 v6	06/14/2016	Assign priv	ileges	
	FFIE	C041 v1	06/14/2016	Assign priv	ileges	
	FFIE	C041 v2	06/14/2016	Assign priv	ileges V	

Figure 42: AgileREPORTER Entity Setup

Refer to the OFS AgileReporter Application User Guide for more details.

9 Maintenance

This chapter provides an understanding of the maintainence process for the regulatory templates.

Changes to regulatory template is one of the most common and continuous activity. The following steps help to assess the impact (You can replace the measure, dimension for existing dataware housing configuration pack using the below process):

- Choosing different execution as a final. After report verification, if requirement is to change the execution, then you must visit <u>Marking Run as Final</u> section. After making these changes you must refresh Derived Entities (<u>Executing Batch to Resave Derived Entities</u>). Then AgileREPORTER also needs to retrieve returns so that revised data is reflected on AgileREPORTER.
- If <u>Executing Batch to Resave Derived Entities</u> is not working, you can look for Batch Operation Log files. For file path, refer to OFS Analytical Applications Infrstructure Installation Manual in OHC documentation library and search for ficdb/log.
- 3. To apply revised patch, refer to the **ReadMe** file for instructions to be followed.
- 4. To update revised data warehouse configuration pack, perform the following instructions.

Regulator: US Effective Version 0 Reference Date 0 Joint Mediation: UP Date Approximation: Philosophic Philosophic <t< th=""><th>Lombard Risk</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Dia in</th><th></th><th></th><th></th><th></th><th>Users</th><th></th></t<>	Lombard Risk							Dia in					Users	
WorkFLOW STRUE ENTITY RETURNS VERSION 0 REFERENCE DATE 0 YORKFLOW STRUE UPATE APPROVAL EDITIONS TRANSUSS User Groups US FED Reserve US FED Reserve V X & E EDITIONS TRANSUSS User Groups Calendar					Show Del	eted Returns	Delete Return Log	Create New	(Import adjustments	Export To Regu	llator Format		
US EFEC021 [4 300902013 Image: Constraint of the constraint of t			ENTITY	RETURNS \$	VERSION \$	REFERENCE DATE \$	JOB STATUS		UPDATE	APPROVAL	EDITIONS	TRANSMISSI		
Carty US FEECDAIL 4 3009/2013 Image: Carty	US FED Reserve							LVXAE					Calendar	•
US EEECod1 4 3009/2013 Image: Columbus Columbu Columbus Columbus Columbu Columbus C			US	FFIEC031	4	30/09/2013	80		Update	NO ATTESTATION NEEDED	 Manage Editions 		Form Schedule Binding	
US FRYDE 2 30092013 Image Image Contop Package Binding Contop Package Binding All	US	•	US	FFIEC041	4	30/09/2013	R ()		Update	NO ATTESTATION NEEDED	Manage Editions		Calculation Engines	
All All			US	FRY9C	2	30/09/2013	B O		Update	NO ATTESTATION NEEDED	Manage Editions		Config Package Binding	
Setup Network File Location Kealable date Kealable date									1 ->	⊨ 15 v		_	Data Warehouse Integration	
	All	•											Setup Network File Location	
All ·	Available date												4 Back	
	All	٣												_

i. Click Settings → Administration → Data Warehouse Integration.

Figure 43: Data Warehouse Integration

- ii. Click Add to add a contextual button.
- iii. Enter details of the contextual button.

Name: It is the text that needs to be displayed in the contextual button.

URL Pattern: Replace <<OFSAA_HOST>>, <<OFSAA_PORT>> and <<OFSAA_CONTEXT>> with host, port and web context of the environment where OFSAA is installed. Replace <<OFSAA_HOST>> with the name of information domain.

http://<<OFSAA_HOST>>:<<OFSAA_PORT>>/<<OFSAA_CONTEXT>>/OFSAADrilldow n/drilldownreport.jsp?cellid=\${cellId}&infodom=<<INFODOM>>&legalentity=\${entityCode} &run=\${run}&date=\${referenceDate}

Example:

http://127.0.0.1:8080/ofsaa/OFSAADrilldown/drilldown.jsp?cellid=\${cellId}&infodom=OFS FSDFINFO&legalentity=\${entityCode}&run=\${run}&date=\${referenceDate}

- i. Use http or https depending on the protocol configured for OFSAA.
- ii. Pick an icon.
- iv. Click Add to save the details.

Lombard Risk Dashboard						Job Manager	XBRL Checker	* 0
Data Warehouse Integration OFSAA	Contextual Buttons							
	EDIT	Add Contextual But	tton		×	DESCRIPTION	ICON \$	
	Add	Name: URL Pattern:				Data Lineage	A	
		Built in Variable:						
		S{celld} S{formVersion} S{Y_ordinate}	\${entityCode} \${entityCode} \${referenceDate} \${Z_ordinate} \$	\${entityName} \${regulatoryPrefix} \${run}	≡ \${formCode} ≡ \${tableCode}			
		Description						
		Pick an icon	2					
			Add	Can	cel			

Figure 44: Adding Contextual Button

5. After the data ware configuration pack is updated, Lombard Configuration pack must reflect this.

Note: Refer to AgileREPORTER user documentation for details.

9.1 Data Schedules Views Creation

Source view required for generation of certain data schedule based returns like FR2052A and FR Y-14M must be created manually after all the dependent derived entities are saved successfully through batch framework. The views are ported as metadata in a future release after the dependent enhancements to BMM framework is confirmed. For now, the views must be executed manually by the DBA in the atomic schema.

9.1.1 FR 2052A

The command <<Infodom>>_USFED_FRY2052A_RESAVEDE must be executed to save all the derived entities required by FR 2052A. Post successful execution, the following views must be executed manually in the atomic schema. The scripts can be found within the **Post_Scripts** folder in the 8.0.3.1.0 installer kit.

- FR2052A_ASSET_INFLOW.sql
- FR2052A_DEPOSITS_OUTFLOW.sql
- FR2052A_FX_SUPPLEMENTAL.sql
- FR2052A_INFO_SUPPLEMENTAL.sql
- FR2052A_OTHER_INFLOW.sql
- FR2052A_OTHER_OUTFLOW.sql
- FR2052A_SECURED_INFLOW.sql
- FR2052A_UNSECURED_INFLOW.sql
- FR2052A_WHOLESALE_OUTFLOW.sql

9.1.2 FR Y-14M

The command **<<Infodom>>_USFED_FRY14M_RESAVEDE** must be executed to save all the derived entities required by FR Y-14M. Post successful execution, the following views must be executed manually in the atomic schema. The scripts can be found within the **Post_Scripts** folder in the 8.0.3.1.0 installer kit.

- FRY14M_A1_LOAN_LEVEL_DD_V.sql
- FRY14M_A2_PORTFOLIO_LEVEL_DD_V.sql
- FRY14M_B1_HOME_EQUITY_V.sql
- FRY14M_B2_HOME_EQUITY_V.sql
- FRY14M_C1_LOAN_LEVEL_DD_V.sql
- FRY14M_D1_LOAN_LEVEL_V.sql
- FRY14M_D2_PORTFOLIO_LEVEL_V.sql

10 Troubleshooting Guidelines

This section covers troubleshooting guidelines for user of Oracle Financial Services Regulatory Reporting Integration with AgileREPORTER, hereafter called as Integration.

Integration users provide the data inputs through the OFSDF where data is loaded, processed and results are made available for reporting purposes. Integration package then makes this data available in required formats to AgileREPORTER. In AgileREPORTER, this data is then aggregated according to the reporting requirements and end users view this from AgileREPORTER User Interfaces designed for the Viewing / Editing of this aggregated data.

This section provides detailed guidelines on how to troubleshoot the data issues tracing back the data flow from AgileREPORTER.

10.1 Prerequisites

It is assumed that user can login and see following menus and respective reports in AgileREPORTER.

Lombard Risk	Dashboa	rd								Job Manag	er 🖂	XBRL Checker 👻	hi rpadmin 🗳	0
				Show Del	leted Returns	Delete Return Log	Create New	C	Import adjustments		lator Format	Export	Retrieve Return	
Regulator : US FED Reserve	٣	ENTITY	RETURNS \$	VERSION \$	REFERENCE DATE \$	JOB STATUS	WORKFLOW STATUS	UPDATE	APPROVAL	EDITIONS	TRANSMISSION	MODIFIED \$	MODIFIED BY	٥
		US	FFIEC031	4	30/09/2013	® ()		😋 Update	NO ATTESTATION NEED	D B Manage Editions		12/09/2016 11:21:59	RPADMIN	ŵ
Entity US	•	US	FFIEC041	4	30/09/2013	® ()		Update	NO ATTESTATION NEED	ED B Manage Editions		14/09/2016 12:01:45	RPADMIN	Û
Form		US	FRY9C	2	30/09/2013	R ()		Update	NO ATTESTATION NEED	D C Manage Editions		08/09/2016 11:41:04	RPADMIN	ŵ
All	٣						14 <4	1 > >	15 🔻					
Available date														
All	٣													

Figure 45: AgileREPORTER

This means configurations activities for the AgileREPORTER and OFSAA are completed. Set up activities for Entity is done and reports templates as shown above are available for viewing. Report Names shown in the figure are for illustration purpose and actual name depends on the integration pack licensed.

10.2 Troubleshooting Use Cases

10.2.1 Unable to Generate Report

If you are unable to generate reports, meaning none of the derived entities referred in the report has rows for the LE/date combination, then you must refer to Installation Manuals of AgileREPORTER or OFSAA Integration pack for further instructions and steps to be followed.

If the process mentioned in Installation Manual is correctly followed and still report list is not available then you are requested to login the bug / service request with Lombard Risk.

10.2.2 Data Unavailable in AgileREPORTER

This is a use case where you are logged in to AgileREPORTER, and selected particular regulatory report for appropriate entity and As of Date, but unable to generate the report.

10.2.2.1 Fetching Null or Zero Values

AgileReporter is showing either Zero or Null values. It indicates that Derived Entities has data (however, all required filer conditions are not matching and resulting in zero value output) or Derived Entity does not have data at all.

🖬 🛕 Show Import Log	≁ Ad	ljustments 👻	Export T	o File → Expo	rt to Reg	ulator Format	Li	ve Validation	Valida	ate Now 👻 Wo	orkflow		rces #/2016 11:13:27 #17	The Manage Editions	Insta	nces 1 🔹 💽
				numeric cells are o se in blue outline.	denomin	iated in one (1's) ex	cept	Show Scale		×				0 0000		Pages
			010										FR Y-9C			Pages
													Page 9 of 65			0 VALIDATION FAILURE
																0 WARNINGS
chedule HI-C—Disa	aggre	gated Data	aon	the Allowa	ance	for Loan a	nd l	ease Loss	es							0 X-VALIDATION FAILURE
																Wkst
nedule HI-C is to be completed I	oy holdin	g companies with	\$1 billio	n or more in total	l assets	.1										Wkst2
		(Column A)		Column B)		(Column C)		(Column D)		(Column E)		(Column F)				Cover
		rded Investment:		ance Balance:		orded Investment:		wance Balance:	Rec	orded Investment	Alle	owance Balance:				
		dually Evaluated r Impairment		fually Evaluated		ctively Evaluated		ectively Evaluated	0	Purchased lit-Impaired Loans	0	Purchased dit-Impaired Loans				Sch HI (1 of 4)
		C 310-10-35)		C 310-10-35)		ASC 450-20)		(ASC 450-20)		(ASC 310-30)		(ASC 310-30)				Sch HI (2 of 4)
Dollar Amounts in Thousands					внск		внск					Bil Mil Thou				Sch HI (3 of 4)
Real estate loans:																Sum (5 014)
a. Construction loans	M708	NULL	M709	NULI	M710	NULL	M711	NULL	M712	NULL	M713	NULL	1.a.			Sch HI (4 of 4)
 Commercial real estate loans 	M714		M715	NII II I	M716	NUUL	M717		M719	NULL	14720	NULL	1.b.			Sch HI-A
c Residential	111/14	NULL	10113	NULL	101	NOLL		INULL	111 13	NOLL	111/20	NOLL	1.0.			
real estate loans	M721	NULL	M722		M723	NULL	M724	NULL	M725	NULL	M726	NULL	1.c.			Sch HI-B (1 of 2)
Commercial Ioans2	M727				M729		M730		M731	NULL			2.			Sch HI-B (2 of 2)
Credit cards	M733				M735		M736		M737				3.			
Other consumer loans	M739	NULL	M740	NULL	M741	NULL	M742		M743	NULL	M744	NULL	4.			Sch HI-C
Unallocated, if any Total							M745	4,500					5.			Notes to Income Stmt (1
	M746	NULL	M747	NULI	M748	NULL	M749	0	M750	NULL	M751	NULL	6.			
,					a											Notes to Income Stmt (2
																Notes to Income Stmt (3
ne asset size test is generally bas																
clude all loans and leases not rep	ported as	real estate loans, o	redit can	ds, or other consu	mer loar	15.										Sch HC (1 of 3)

Figure 46: Fetching Null Values

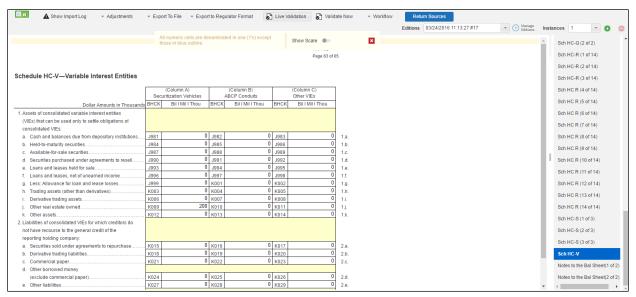


Figure 47: Fetching Zero Values

You must validate as:

- 1. Derived Entity has data:
 - a. Execute the Derived Entity / Materialized views to check if Derived Entity has data or not.
 - b. If Derived Entity / materialized view has data but not showing in AgileREPORTER, you must log a Bug / Service Request with Lombard Risk.

- 2. Derived Entity does not have data:
 - a. Execute the Derived Entity / Materialized views to check if Derived Entity has data or not.
 - b. If Derived Entity does not have data, then check the Business Metadata excel for a given schedule.
 - c. Check Worksheet titled 'Derived Entity' in Business Metadata excel. Get all the derived entities for a given schedule.
 - d. Get dataset for each derived entity.
 - e. Execute datasets in OFSAA FSDF Atomic Schema to check if data is available for a given dataset joins.
 - f. If data is available in dataset queries, you must log a Bug / Service Request with AgileREPORTER.
 - g. If data is not available in dataset, then check if selection of Entity, Available Date (as of date) is appropriate and required executions are available. If Entity, As of Date and Run executions are correct and still data is not available, then you must log a Bug / Service Request with <u>Oracle Support</u>.

10.2.3 Data Available in AgileREPORTER but Not as Expected

This use case where you are able to refer data for a required cell of a schedule in AgileREPORTER; however, value shown differs from expected value.

Let us take following example to illustrate the steps to be followed. This refers to Schedule HC-M from FR Y-9C report from US FED. Particular cell referred here is BHDMK169 –

6.a. Loans and leases (included in Schedule HC, items 4.a and 4.b):

- (1) Loans secured by real estate in domestic offices:
 - (a) Construction, land development, and other land loans:
 - (1) 1–4 family residential construction loans

💷 🕜 🔺 Show Import Log 👻 Adjustments 👻 E	Export To File 👻 Export to Regulator Format 🛛 🔓	👌 Live Validation 🛛 🔊	Validate Now 👻 Workflow	Return Sources			
				Editions 03/24/2016 11:13:27 #17	▼ L Manage Editions	Insta	inces 1 👻 👩
	All numeric cells are denominated in one (1's) except			Editorio	Editions		
	those in blue outline.	Show Scale				*	HC-E & F
			Page 34 of 65				
Schedule HC-M—Memoranda			Page 34 01 03				Sch HC-G & H
							Sch HC-I
	Dollar Amounts in Thousands BH	CK Bil I Mil I Thou					Sch HC-K
1. Total number of holding company common shares	Number (Unrounded)						SUINCIK
outstanding	3459 0.0000		1.				Sch HC-L (1 of 4)
Debt maturing in one year or less (included in Schedule HC, ite issued to unrelated third parties by bank subsidiaries.	ms 16 and 19.a) that is	55 0	2				Sch HC-L (2 of 4)
3. Debt maturing in more than one year (included in Schedule HC		00	۷.				
issued to unrelated third parties by bank subsidiaries	65	56 0	3.				Sch HC-L (3 of 4)
4. Other assets acquired in satisfaction of debts previously contract	ted	57 100	4.				Sch HC-L (4 of 4)
5. Securities purchased under agreements to resell offset against							Sch HC-M (1 of 4)
agreements to repurchase on Schedule HC	A2	88 0	5.				
6. Assets covered by loss-sharing agreements with the FDIC:							Sch HC-M (2 of 4)
 Loans and leases (included in Schedule HC, items 4.a and 4 (1) Loans secured by real estate in domestic offices; 	4.b):						Sch HC-M (3 of 4)
 (1) Loans secured by real estate in domestic offices: (a) Construction, land development, and other land loans 	s' BHI						
		69 256,608,000,000,000	6.a.(1)(a)(1)				Sch HC-M (4 of 4)
(2) Other construction loans and all land developmen		70 2,774,502,720,000,00	6.a.(1)(a)(2)				Sch HC-N (1 of 5)
(b) Secured by farmland	K1	71 256,608,000,000,000	6.a.(1)(b)				Sch HC-N (2 of 5)
(c) Secured by 1-4 family residential properties:							Sur HC-N (2 01 5)
 Revolving, open-end loans secured by 1–4 family 							Sch HC-N (3 of 5)
extended under lines of credit		72 85,536,000,000,000	6.a.(1)(c)(1)				Sch HC-N (4 of 5)
(2) Closed-end loans secured by 1-4 family residentiation (a) Operating the first lange		73 18.817.920.000.000	6.a.(1)(c)(2)(a)				
(a) Secured by first liens (b) Secured by junior liens			6.a.(1)(c)(2)(a) 6.a.(1)(c)(2)(b)				Sch HC-N (5 of 5)
(d) Secured by multifamily (5 or more) residential propert			6.a.(1)(d)				Sch HC-P
(e) Secured by nonfarm nonresidential properties:							Sch HC-Q (1 of 2)
(1) Loans secured by owner-occupied nonfarm nonre			6.a.(1)(e)(1)				00110-0(1012)
(2) Loans secured by other nonfarm nonresidential p	roperties	77 256,608,000,000,000	6.a.(1)(e)(2)				Sch HC-Q (2 of 2)

Figure 48: Schedule HC-M from FR Y-9C Report

You can drill down for each cell to check details of data as what is included in aggregation. To drill down, click the value of particular cell and it is shown highlighted. It shows OFSAA data lineage icon on clicking as shown in Figure 49.

☐	Live Validation	Validate Now	+ Workflow	Return Sources	A Managa		
All numeric cells are denominated in one (1%) except	Scale	×	Editions 03/24/2016 11:13:27 #17	V C Manage Editions	Insta	inces 1 🔹 💽 🤇
those in blue outline.	Shows	Scale	~				HC-E & F
							Sch HC-G & H
Schedule HC-M—Memoranda							
							Sch HC-I
							Sch HC-K
							Sch HC-L (1 of 4)
							Sch HC-L (2 of 4)
							Sch HC-L (3 of 4)
							Sch HC-L (4 of 4)
							Sch HC-M (1 of 4)
							Sch HC-M (2 of 4)
							Sch HC-M (3 of 4)
(a) Construction, land development, and other land loans:	BHDM						Sch HC-M (4 of 4)
(1) 1–4 family residential construction loans	K169 2566080000		edit				
(2) Other construction loans and all land development and other land loansOFSAA							Sch HC-N (1 of 5)
		000,000					Sch HC-N (2 of 5)
							Sch HC-N (3 of 5)
							Sch HC-N (4 of 5)
							Sch HC-N (5 of 5)
							Sch HC-P
							Sch HC-Q (1 of 2)
							Sch HC-Q (2 of 2)
(2) Loans secured by other nonfarm nonresidential properties	к177 256,608,000,	000,000 6.a.(1)(e)(2)					SCI HC-Q (2 012)

Figure 49: Data Lineage

Make sure that you are logged in to OFSAA infrastructure before clicking **Data Lineage** icon.

- If you are not already logged in, clicking here opens the OFSAA infrastructure login window. Log in using appropriate credentials and come back to Report Portal and click the same **Data** Lineage icon again.
- If you are already logged in to OFSAA Infrastructure, the Data Lineage first page opens as shown in Figure 50.

Data Lineage											
Run Execution Id		7			Date		30 Sep 2013				
Legal Entity		US			Reference Identifier)			
» Derived Entity : <u>DERHCM0</u>	<u>1</u> (30)										
Holding Type Code Hierarchy	Bands hierarchy	Instrument type Hierarchy	Regulatory Product Classification Hierarchy	Risk Factor to	pe code Hierarchy	Derivative Type Code Hierarchy	HIREG116	Geography - Branch Country	Nettable Pool Surrogate Key Hierarchy		
HTM	1046	IRSPOTREP	1-4FAMCONLOAN	IR		SPOT	CORINC	US	N		
HTM	1048	IRSPOTRREP	1-4FAMCONLOAN	IR		SPOT	CORINC	US	N		
HTM	1048	IRSPOTRREP	1-4FAMCONLOAN	IR		SPOT	CORINC	US	N		
HTM	1205	EQRCPS	1-4FAMCONLOAN	EQ		SPOT	INSCOV	US	N		
HTM	1046	COLMBS	1-4FAMCONLOAN	IR		SPOT	CORINC	US	N		
HTM	1205	CMSPOTCIU	1-4FAMCONLOAN	CM		SPOT	INSCOV	US	N		
HTM	1205	EQRCPS	1-4FAMCONLOAN	EQ		SPOT	INSCOV	US	N		
HTM	1046	IRSPOTREP	1-4FAMCONLOAN	IR		SPOT	CORINC	US	N		
HTM	1048	COLMBS	1-4FAMCONLOAN	IR		SPOT	CORINC	US	N		
	1205	COLMBS	1-4FAMCONLOAN	IR		SPOT	INSCOV	US	N		

Figure 50: AgileREPORTER

Top block of this screen shows following information which helps to connect the AgileREPORTER aggregated data to OFSAA references.

- 1. Run Execution ID: This refers to OFSAA Execution ID chosen for a given report.
- 2. Date: This refers to AS OF DATE selected for a given report.
- 3. Legal Entity: This refers to the OFSAA Legal Entity for whom the report is generated.
- 4. Reference Identifier: This is the cell reference for which data drill down / lineage is being checked.

Second block displays all hierarchies with values used in a given Derived Entity and measures aggregated for a given combination of a hierarchy values.

To refer the measure values, scroll rightwards using horizontal scroll bar at bottom of second block. On extreme right, measures are displayed as shown in Figure 51:

			Data	Lineage			
Run Execution Id	7			Date		30 Sep 2013	
Legal Entity	US			Reference Identifier		BHDMK169	
» Derived Entity : <u>DERHCM01</u>	(30)						
n failed insured dep insts - HCM	Construction loan type - HCM	Customer Country Hierarchy	Agreement Sponsorer Code Hierarchy	Entity Type Hierarchy	Accrual Status Code Flag Hiera	rchy Reg Prod Type Hierarchy	Amortized Cost - Common Account Summary
		USA	FDIC		ACCRU		8.553.600.000.000.00
		USA	FDIC		ACCRU		12,830,400,000,000.00
		USA	FDIC		ACCRU		12.830.400.000.000.00
		USA	FDIC		ACCRU		8,553,600,000,000.00
		USA	FDIC		ACCRU		8.553.600.000.000.00
		USA	FDIC		ACCRU		4,276,800,000,000,00
		USA	FDIC		ACCRU		8,553,600,000,000.00
		USA	FDIC		ACCRU		8.553.600.000.000.00
			FDIC		ACCRU		8,553,600,000,000.00
		USA	FDIC				

Figure 51: Measure Values

Only measure values are hyperlinked indicating that they can be drilled down further. On clicking the amount, second level drill down show the lowest granularity data available for a given cell reference.

10.2.3.1 Using Drill Down with Data Lineage View

Data Analysts/You can then compare these accounts and their respective monetary amounts with expected values. One can check the following:

- 1. All required accounts are shown in aggregation
- 2. Unwanted accounts are not included in aggregation
- 3. Measures / Monetary amounts at account granularity are as expected.

Any deviation from expectations can be then checked back for:

- 1. If measure is stage pass through, then validate using T2T to verify if stage data is as expected or must be corrected.
- 2. If measure is processed, then validate using T2T to verify processing measure is correctly moved to result area.
- 3. If reclassified hierarchies are showing unexpected values, check Rules and source hierarchies of rules. This use case needs close verification to ensure that all source hierarchies have required values or Rule sequence which can lead to overwriting the values.
- If all the source data is as expected and result area is now showing unexpected output, then log a Bug / Service Request with <u>Oracle Support</u>.

10.2.3.2 Data Lineage View is Unavailable

If the second block does not show any data, then data analysts/you are advised to refer to the data set worksheet of Business Metadata.

		Data Lir	neage			
1						
Run Execution Id	1		Date		30 Sep 2013	
Legal Entity	US		Reference Identifier		BHCKJ456	
1						
» Derived Entity : <u>DE - Derivatives and Off-Bala</u>	nce-Sheet Items HC-L1 (0)	⊞ -				
Party Type Hierarchy Instrument type Hierarchy	Regulatory Product Classification Hierarchy	Product Type Hierarchy Entity Type Hie	rarchy Reg Prod Type Hierarchy	Undrawn Amt -	Common Account Summary	
						1

Figure 52: Data Lineage Unavailable

There can be few reasons why second block does not show the data:

- Internet connection is timed out or broken down in this case clicking Data Lineage on AgileREPORTER results in a blank second block. To rectify this, re-login to OFSAA infrastructure and AgileREPORTER.
- 2. Data Lineage view works after Metadata is published using OFSAA Infrastructure. To validate if Metadata is properly published or not.
- 3. If Metadata is properly published and second block still does not show the data, then start with Derived Entity code shown at the beginning of second block. This Derived Entity code is available even if data is not available.
- 4. Using this Derived Entity code data analysts are advised to refer to OFSAA Business metadata with worksheet name as 'Derived Entity'. Sample Business Metadata excel is shown in Figure 53:

A	В	6	D	F	F	G	Н		1	К
		Ŭ								ix.
1 Derived Entity	Code Short Description	Long Description	Source Type	Aggregate	terialised Vi	Dataset Code	Dataset Name	Selected Metadata	Selected Metadata Code	
148								Band Type Hierarchy	HIREG116	
149								Instrument type Hierarchy	HIREG048	
150								Regulatory Product Classification Hierarchy	HIREG065	
151								Party Type Hierarchy	HIREG037	
152								Entity Type Hierarchy	HIRHCP01	
153								Product Type Hierarchy	HIRHCK01	
154								Undrawn Amt - Common Account Summary	MSRHCL01	
155								Calendar Date	HIREG001	
156	DE - Derivatives and Off-Balance-Sheet	DE - Derivatives and Off-Balance-Sheet					DS - Derivatives and Off-Balance-Sheet Items - HC-	Run Description	HIREG002	
157 DERHCL01	Items HC-L1	Items HC-L1	Dataset	N	Y	DSRHCL01	u	Org Structure Entity Code	HIREG004	
158	-Y							Reg Instrument Classification Hierarchy	HIREG011	
159								Instrument type Hierarchy	HIREG048	
160								Holding Type Code Hierarchy	HIREG012	
161								Calendar Date	HIREG001	
162								Run Description	HIREG002	
163								Org Structure Entity Code	HIREG004	
164								Buy or Sell Indicator Hierarchy	HIRHC001	
165								Fair value - IFRS Account Summary	MSRHCN09	
166 DERHCL02	DE - Derivatives and Off-Balance-Sheet I	DE - Derivatives and Off-Balance-Sheet Items	Dataset	N	Y	DSRHCL02	DS - Derivatives and Off-Balance-Sheet Items - HC-L	Notional Amount RCY	MSRBS001	
167								Calendar Date	HIREG001	
168								Fair value RCY - Mitigants	MSRHCL02	
169 DERHCL03	DE - Account to Mitigant Map	DE - Account to Mitigant Map	Dataset	N	Y	DSRHCL03	DS - Account to Mitigant Map	Account Skey - Account to Mitigant Map	HIRHCL02	
170								Calendar Date	HIREG001	
171								Fair value RCY - Mitigants	MSRHCL02	
172								Account Skey - Account to Mitigant Map	HIRHCL02	
173 DERHCL04	DE - Account to Mitigant Map with Mitiga	DE - Account to Mitigant Map with Mitigant T	Dataset	N	Y	DSRHCL04	DS - Account to Mitigant Map with Mitigant Type	Mitigant Type Hierarchy	HIREG049	
174								Net CE Amount	MSRHCL03	
175								Calendar Date	HIREG001	
176				1			1	Run Description	HIREG002	
177								Org Structure Entity Code	HIREG004	
178 DERHCL07	DE - Derivatives and Off-Balance-Sheet I	DE - Derivatives and Off-Balance-Sheet Items	Dataset	N	Y	DSRHCL07	DS - Derivatives and Off-Balance-Sheet Items - HC-L	Standard Party Type Hierarchy	HIREG103	
179								DE - Fair value RCY - Mitigants	MSRHCL10	
180								Reg Instrument Classification Hierarchy	HIREG011	
(()) Hier	archies-BI Base Measures Datasets	Business Process Derived Entity Rep	auto /07	I	1	1	1	4		
Hier	nchies-bi 🔬 base measures 🔬 Datasets 🖉	DUSITIESS PROCESS _ DERIVED ENTITY / Rep								- P

Figure 53: Business Metadata

5. By referring to Business Metadata, you can get complete information on Derived Entity such as dataset, Fact tables, measusres, hierarchies defined under particular Derived Entity.

. 1) - (4 - 🎦 () 🏥 Y= =			
	D1232		imary		¢ *
	A	В	С	D	-
1	Dataset Code	Dataset Name	From Clause	Ansi Join	В
1232			FCT_COMMON_ACCOUNT_SUMMARY	fct_common_account_summary	
1233			fct_reg_account_summary	inner join fct_reg_account_summary on fct_reg_account_summary.n_mis_date_skey =	_
1234			dim_dates	fct_common_account_summary.n_mis_date_skey	_
1235			dim_run	and fct_reg_account_summary.n_acct_skey = fct_common_account_summary.n_acct_skey	_
1236			dim_org_structure	inner join dim_reg_product_classification on dim_reg_product_classification.n_reg_prod_classification_skey =	_
1237	DSRHCL01	DS - Derivatives and Off-Balance-Sheet Items - HC-L1	DIM_REG_PRODUCT_CLASSIFICATION	fct_reg_account_summary.n_reg_prod_classification_skey	_
1238	DOKINCEDI	b3 - benvalives and on-balance-sheet items - no-ci	dim_entity_type	inner join fct_legal_entity_details on fct_legal_entity_details.n_entity_skey =	_
1239			FCT_LEGAL_ENTITY_DETAILS	fct_common_account_summary.n_entity_skey	_
1240			dim_reg_product_type	AND fct_legal_entity_details.n_mis_date_skey = fct_common_account_summary.n_mis_date_skey	_
1241			Dim_instrument_type	inner join dim_entity_type on dim_entity_type.n_entity_type_skey = fct_legal_entity_details.n_entity_type_skey	_
1242			dim_product_type	inner join dim_instrument_type on dim_instrument_type.n_instr_type_skey =	_
1243			dim_party_type	fct_reg_account_summary.n_instr_type_skey	_

Figure 54: Business Metadata

The Dataset ANSI Joins provide valuable information on how various entities are joined/linked together. By executing these Joins, you can confirm if data is available for given filters and conditions. If data is fetched using Dataset Joins and Data Lineage does not show data, you must log a Bug / Service Request with <u>Oracle Support</u>.

ORACLE

Oracle Financial Services Regulatory Reporting for US Federal Reserve - Lombard Risk Integration Pack 8.0.3.1.0 User Guide

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