## **Oracle Financial Services Analytical Applications**

Metadata Browser User Guide

Release 8.1.x

June 2021





#### **OFSAA Metadata Browser User Guide**

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# **Document Control**

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1.1	December 2020	VPAT updates added.
1.0	May 2020	Created the user guide for OFSAA Release 8.1.x.

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# 1 Preface

The Metadata Browser component in Oracle Financial Services Analytical Applications (OFSAA) allows you to view and analyze all aspects of the metadata used in the OFSAA platform and applications. It provides extensive browsing capabilities of the metadata and helps in tracking the impact of changes to the metadata and trace through to the source of originating data.

#### Topics:

- <u>Access to Oracle Support</u>
- <u>Audience</u>
- Additional Resources
- <u>Conventions Used</u>
- <u>Acronyms Used</u>

## **1.1** Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit:

- <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info</u>
- <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs</u> if you are hearing impaired.

### 1.2 Audience

This guide is intended for: Business Analysts who have to view metadata lineage.

## **1.3** Additional Resources

This section identifies additional resources for the OFSAA Metadata Browser. You can access the online documentation for the OFS AAI 8.1.x from the <u>Oracle Help Center (OHC)</u>.

- OFSAAI Administration Guide OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack Installation and Configuration Guide
- OFS Analytical Applications Infrastructure User Guide
- OFS Analytical Applications Infrastructure Process Modeling Framework Orchestration Guide

To find additional information about how Oracle Financial Services solves real business problems, see our website at <u>www.oracle.com/financialservices</u>.

## **1.4 Conventions Used**

The following table lists the conventions used in this guide.

Table 1: Conventions Used in this Guide

Convention	Meaning
Italics	<ul><li>Names of books, chapters, and sections as references</li><li>Emphasis</li></ul>
Bold	<ul> <li>The object of an action (menu names, field names, options, button names) in a step-by-step procedure</li> <li>Commands typed at a prompt</li> <li>User input</li> </ul>
Monospace	<ul> <li>Directories and subdirectories</li> <li>File names and extensions</li> <li>Process names</li> <li>Code sample, including keywords and variables within the text and as separate paragraphs, and user-defined program elements within the text</li> </ul>
<variable></variable>	Substitute input value

# **1.5** Acronyms Used

The following table lists the acronyms used in this guide.

Table 2: Acronyms	Used in this Guide
-------------------	--------------------

Conventions	Description	
ALM	Asset Liability Management	
АМНМ	Attributes Members Hierarchies Module	
ANSI	American National Standards Institute	
API	Application Programming Interface	
ARIMA	Auto Regressive Integrated Moving Average	
ASCII	American Standard Code for Information Interchange	
AW	Analytical Workspace	
ВА	Business Analysts	
BI	Business Intelligence	
ВММ	Business Metadata Management	
BP	Business Processor	
CF	Cash Flow	
CSV	Comma Separated Values	
DBA	Database Administrator	
DEFQ	Data Entry Forms and Queries	
DMP	Window or Memory Dump	

Conventions	Description
DQ	Data Quality
DSN	Data Source Name
ELT	Extract Load Transform
EPM	Enterprise Performance Management
ES	External Scheduler
ESIC	External Scheduler Interface Component
ETL	Extract Transform Load
EWMA	Exponentially Weighted Moving Average
FTP	File Transfer Protocol
GARCH	Generalized Auto Regressive Conditional Heteroskedasticity
GMV	General Market Variable
HTML	HyperText Markup Language
НТТР	Hypertext Transfer Protocol
Infodom	Information Domain
IP	Internet Protocol
JDBC	Java Database Connectivity
JSON	JavaScript Object Notation
JVM	Java Virtual Machine
LDAP	Lightweight Directory Access Protocol
LHS menu	Left-hand side menu
MDB	Microsoft Access Database
MOLAP	Multidimensional Online Analytical Processing
NE	Non-Editable
OBIEE	Oracle Business Intelligence Enterprise Edition
ODBC	Open Database Connectivity
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
ОНС	Oracle Help Centre
OLAP	Online Analytical Processing
PDF	Portable Data Format
PFT	Profitability Management
PR2	Process Run Rule framework
RAC	Real Application Cluster
RDBMS	Relational Database Management System

Conventions	Description
RHS	Right Hand Side
RRF	Run Rule Framework
SA	System Administrator
SFTP	Secret File Transfer Protocol
SID	System ID
SMS	Security Management System
SQL	Structured Query Language
T2T	Table to Table
TBD	To be Deleted
TFM	Technical File Maintenance
TNS Name	Transparent Network Substrate Name
ТР	Transfer Pricing
URL	Uniform Resource Locator
VaR	Value at Risk
XML	Extensible Markup Language

# 2 Getting Started

This section gives an introduction to OFS Model Management and Governance and the requirements to use the application.

**Topics:** 

- About this Guide
- <u>Recommended Environment</u>
- <u>Prerequisites</u>

## 2.1 About this Guide

This guide has information to use the Metadata Browser. The further sections in this guide provide information for the Metadata Browser Dashboard, Catalog of Objects, and Utilities.

For other products such as OFS AAI, see the <u>Additional Resources</u> section.

## 2.2 Recommended Environment

For information about browsers where MDB can be best viewed, see the <u>OFS Analytical Applications</u> <u>8.1.x Technology Matrix</u>.

## 2.3 Prerequisites

The following are the prerequisites to use the Metadata Browser UI functions:

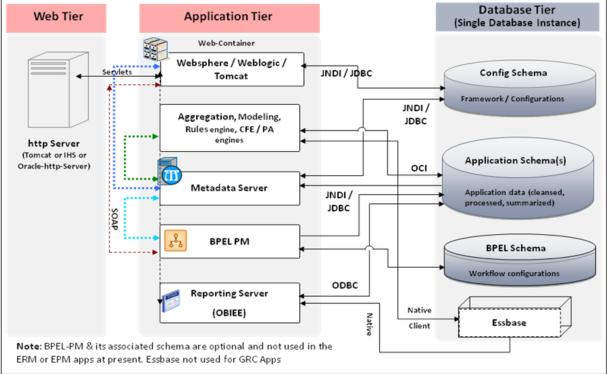
- To access the Metadata Browser, your user role must be mapped to the **SCR\_MDB** function.
- To use the Object to Application Mapping feature, you must be mapped to the role METADMN (Publish Metadata), which is mapped to the function **Map Metadata** (METMAP).

For more information on mapping functions to a role, see the *Function - Role Map* section in the <u>Oracle Financial Services Advanced Analytical Applications Infrastructure User Guide</u>.

# 3 Metadata Browser Overview

This chapter helps you to navigate through the 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 OFSAAI. It provides extensive browsing capabilities of metadata, helps in tracking the impact of changes to metadata, and trace through to the source of the originating data.





#### **Topics:**

- <u>Access the Metadata Browser</u>
- <u>Dashboard</u>
- <u>Search</u>
- Catalog of Objects

## 3.1 Access the Metadata Browser

You can access the Metadata Browser component in a web browser when your System Administrator (SA) installs the Oracle Financial Services Analytical Application and configures the required user groups and roles. The SA provides the link through which you can open the OFSAA login window in a web browser in the following URL format:

```
http(s): <IP Address of the Web Server > :<servlet port>/<context
name>/login.jsp.
```

You can also log in to the application with the hostname instead of the IP address.

To log in to OFSAA and access the metadata browser, follow these steps:

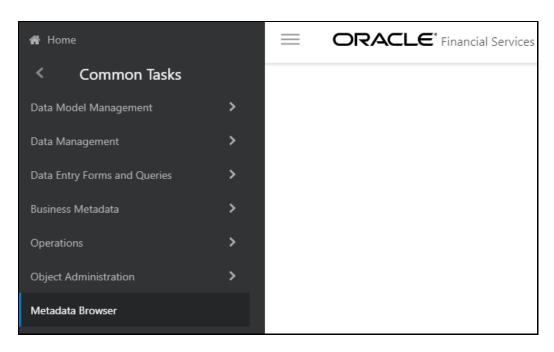
1. Enter the OFSAA URL in a web browser. The OFSAA Login window is displayed.

	al Applications		■ <u>About</u>
$   \overline{\mathbf{\Theta}} $			
Language	US-English •		
User ID			
Password			
	Login		
Version 8.1.0.0.0 Copyright © 1993, 2	2020, Oracle and/or its affiliates. All	l rights reserved.	

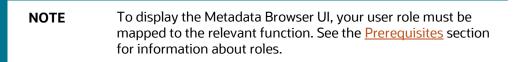
Figure 2 - The OFSAA Login Window

- 2. Select the required language from the **Language** drop-down list. The applicable language login window is displayed.
- **3.** Enter the **User ID** and **Password** and click **Login**. For first-time login, enter the password provided by the System Administrator and a prompt is displayed to change the password. For details on how to change a password, see the *Changing Password* section in the <u>OFSAAI User</u> <u>Guide</u>.
- **4.** Click <sup>(III)</sup> from the header to display the applications in the Tiles menu.
- **5.** Click **Application**. For example, Financial Services Enterprise Modeling. The Navigation Tree displays a menu.

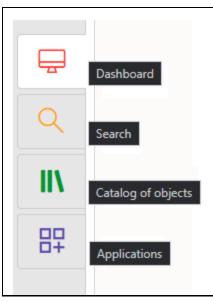
Figure 3 - The Metadata Browser in Common Tasks Menu



6. Click **Common Tasks**, and then click **Metadata Browser** to display the Metadata Browser in a separate window.



7. Click the tabs shown in the following illustration to open the required windows.



#### Figure 4 - The Metadata Browser Tabs

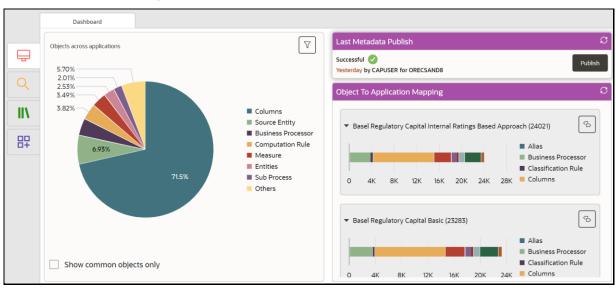
- a. Dashboard
- **b.** <u>Search</u>
- c. Catalog of Objects
- d. <u>Applications</u>

## 3.2 Dashboard

The Dashboard presents an overview in the form of graphical representations of the distribution of all the objects in the instance and across applications installed on it. It helps identify the sharing of metadata across applications and generate a report.

You can do the following from the Dashboard:

- <u>View Metadata Sharing Information Across Applications</u>
- Metadata Publish
- Object to Application Mapping



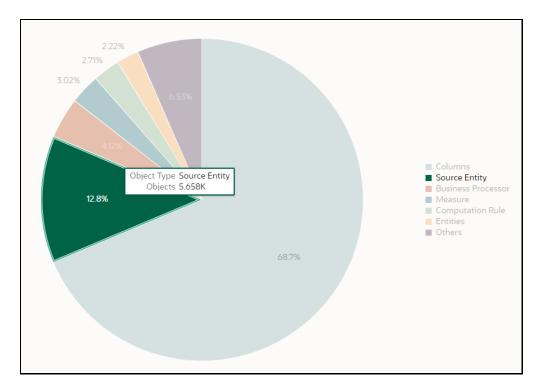
#### Figure 5 - The Metadata Browser Dashboard

The Dashboard displays a pie chart of the distribution of metadata objects across all applications in percentage.

To use the pie chart, follow these steps:

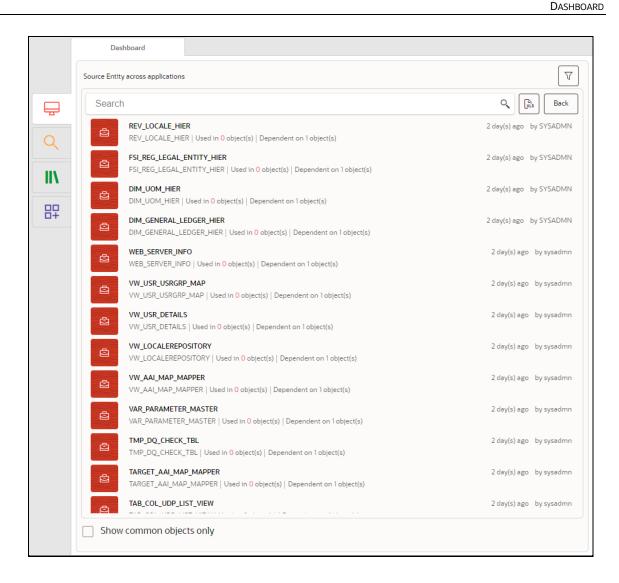
- 1. Click 🖵 in the *Metadata Browser* window to display the *Dashboard* view. The *Dashboard* view is the default view of the Metadata Browser.
- **2.** Mouse-over a slice in the pie chart to view the Object Type it represents and the number of objects in it.

Figure 6 - Mouse-over to View the Object Type and Number of Objects



**3.** Click a slice to view the list of objects represented by it as shown in the following illustration:

Figure 7 - View the List of Objects from the Pie Chart



**4.** In the list of objects pane, you can view all the objects of the selected object type with details such as object name, object code, the object used in the number of objects, the object dependent on the number of objects, and audit details such as the time since the object was last modified and the user who last modified the object.

In this pane, you can do the following:

- Click the object name link to view its details. For more information, see <u>Viewing Object</u> <u>Details</u>.
- Click L<sup>xis</sup> to export the metadata details of the selected object type to an MS Excel file.
- Click **Back** to go back to the previous view.
- Select Show common objects only to display the objects that are commonly used in all the applications.
- Click T to <u>View the Metadata Sharing Information Across Applications</u>.

### 3.2.1 View the Metadata Sharing Information Across Applications

To select the required applications for which you want to view the Metadata sharing information and view it, follow these steps:

1. Click to open the Applications drawer.

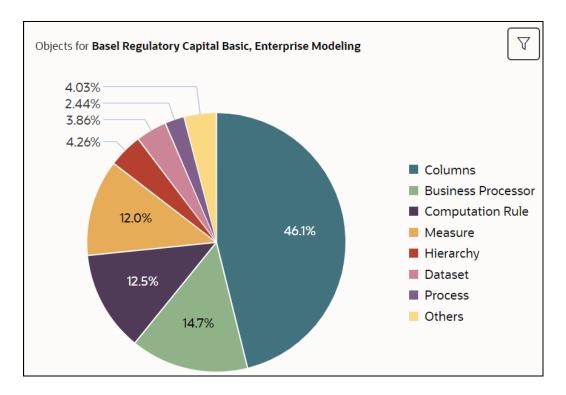
Figure 8 - View the Applications Drawer

	Dashboard					
	Applications					
	Basel Regulatory Capital Analytics					
	<ul> <li>Basel Regulatory Capital Basic</li> </ul>					
	<ul> <li>Basel Regulatory Capital Internal Ratings Based Approach</li> </ul>					
II	Enterprise Modeling					
87						
	Apply					

**2.** Select the required applications for which to display the objects, and click **Apply**. The objects specific to the selected application is displayed in the list of objects pane.

For example, if you select Basel Regulatory Capital Basic and Enterprise Modeling, objects specific to the two applications is displayed:

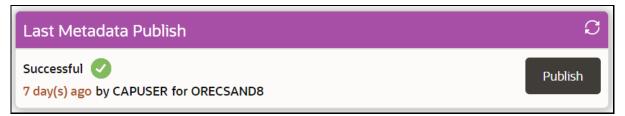
Figure 9 - Example of Metadata for Selected Applications



### 3.2.2 Metadata Publish

The *Last Metadata Publish* pane displays details such as the time elapsed since the metadata was last published, the user who published the Metadata, and the Information Domains to which the metadata was published.





To view and refresh the metadata in the Metadata Browser, publish it.

To publish the metadata, follow these steps:

- 1. On the *Last Metadata Publish* pane, click **Publish**. The available Information Domains are displayed in a drawer window.
- 2. Select the required Information Domains and click OK.

NOTE You can also use the command line utility MDBPublishExecution.sh to publish the metadata.For more information, see the <u>Command Line Utility to Publish</u> <u>Metadata in the Metadata Browser</u> section.

## 3.2.3 Object to Application Mapping

The *Object To Application Mapping* pane allows you to map the metadata objects to applications so that you can view the information for metadata across applications where it is used. Mapping of metadata objects implicitly maps its dependent objects to the selected application recursively. You can also remove the mapping of objects from applications. However, it does not remove the mapping of its dependent objects.

**NOTE** You can use a command line utility to map objects to applications. For more information, see the <u>Command Line</u> <u>Utility for Object Application Mapping in the Metadata Browser</u> section.

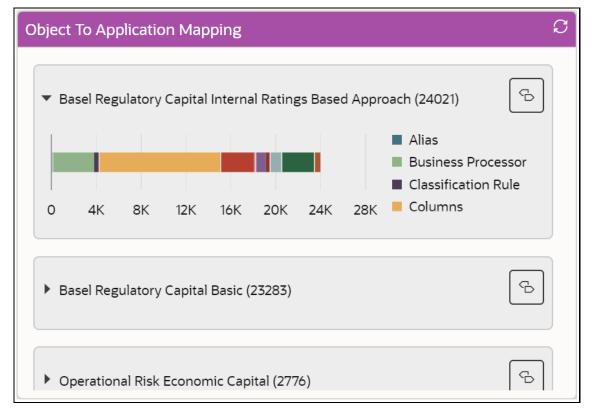


Figure 11 - The Object To Application Mapping Pane

The *Object To Application Mapping* pane displays all the available applications with the number of objects mapped to it displayed within brackets. It shows a graphical representation of the distribution

of various object types in each application. Each object type is represented by a color code on the graph. Mouse-over a color to display the **Object Type** and the number of **Objects** mapped to the application.

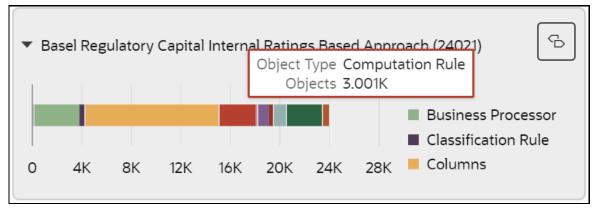


Figure 12 - Object Types Represented by a Color Code

To map the Objects to Application:

1. In the *Object To Application Mapping* pane, click corresponding to the application to which you want to map objects. The Object to Application Mapping is displayed.

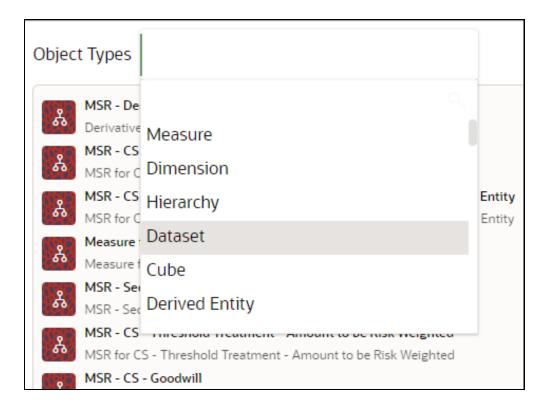
Figure 13 - Map Required Object Types to Application

Enterprise Modeling				×
Object Types				Cancel Save
<ul> <li>MSR-Power Law Bucket ID - LOB Level MSR-Power Law Bucket ID - LOB Level</li> <li>MSR - Scenario Minimum Frequency Measure for Scenario Maximum Frequency</li> <li>MSR - Scenario Maximum Frequency</li> <li>MSR - OR Loss Data Correlation Coefficient</li> <li>MSR - OR Loss Data Correlation Coefficient</li> <li>MSR - Correlation Loss Data Type MSR - Correlation Loss Data Type</li> <li>MSR - Correlation Input Measure</li> <li>MSR - Correlation Matrix Validation Method MSR - Correlation Matrix Validation Method</li> <li>MSR - Correlation Matrix Validation Method</li> <li>MSR - Replacement Value for Negative Correlation Coefficient</li> </ul>		> >> <	No items to display.	
Search	0		Search	٩

By default, the objects of the Measure object type are displayed.

**2.** Click the **Object Types** field and select the required object types from the list. The list displays all the available Objects for the selected Object Types.

#### Figure 14 - Object Types List



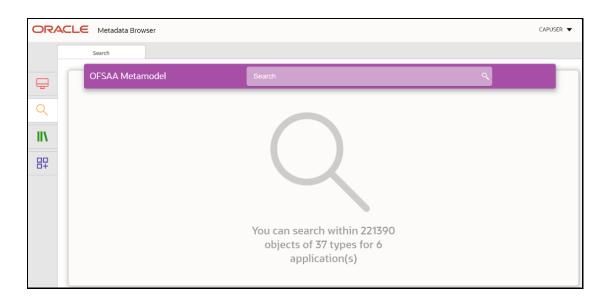
- **3.** Map or Unmap objects as required.
  - To map objects, select the required object in the available section and click to move it to the selected section to the right. Click to map all the objects of the selected Object Types.
  - To unmap objects, select the required object in the selected section and click . Click
     to unmap all the objects that are selected for mapping.
- **4.** Click **Save**. All the dependent metadata objects are mapped to the selected application recursively.

## 3.3 Search

The Search window enables you to search for objects within object types that exist in applications. To use the Search window, follow these steps:

**1.** Click <sup>Q</sup> in the *Metadata Browser* window to display the *Search* window.

Figure 15 - The Metadata Search Window



Enter the keyword for the search in the Search field. Autocomplete displays suggestions, which you can select by using the down arrow from the keyboard or by using the mouse. You can search for an object in the Measure, Dimension, and Hierarchy object types by adding "in:<Object Type>" to the keyword.

For example, if you enter "Portfolio" in the **Search** field, it displays all objects that have the word "Portfolio" in their Name, Short Description, and Long Description. However, if you want to search for only Measure objects, enter **Portfolio in:Measure**. This narrows down the search to objects of the Measure type, as shown in the following illustration:

	Search	
	OFSAA Metamodel Portfolio in:Meas	sure Q
Q	MSR - CS Risk Weighted Asset Amount for Standardized Portfoli M1009   Used in 2 object(s)   Dependent on 2 object(s) Measure for Cap Struct Risk Weighted Asset amount for Standardi	
II\	MSR - Risk Weighted Asset for EL at Equity Portfolio Level for Pl MBL1153   Used in 1 object(s)   Dependent on 2 object(s) Risk Weighted Asset for Expected Loss at Equity Portfolio Level for	
87	MSR - Risk Weighted Asset for UL at Equity Portfolio Level for PL         MBL1152   Used in 1 object(s)   Dependent on 2 object(s)         Risk Weighted Asset for UL at Equity Portfolio Level for PD LGD Ar         MSR - EAD Amount at Equity Portfolio Level for IMM Approach         MBL1150   Used in 1 object(s)   Dependent on 2 object(s)         EAD Amount at Equity Portfolio Level for IMM Approach	
	MSR - CVA RWA MBL0079   Used in 10 object(s)   Dependent on 2 object(s) CVA RWA for a portfolio	by SYSADMN
	MSR - CVA Charge	by SYSADMN

Figure 16 - Example of a Metadata Search

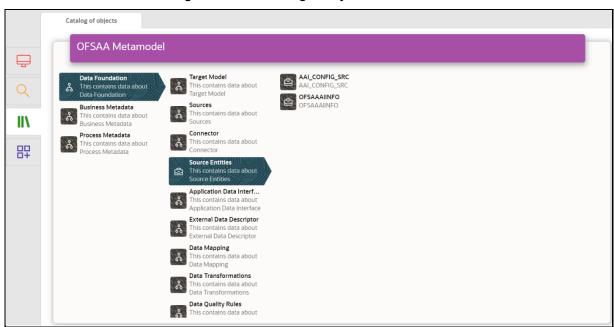
**3.** Click the Object Name link to view its details. For more information, see <u>View Object Details</u>.

## 3.4 Catalog of Objects

Metadata in OFSAAI is largely classified into Data Foundation, Business Metadata, Process Metadata, and Reporting Metadata. The Catalog of Objects is a drill-down system, which expands and displays the details of the objects in the Metadata.

You can view details of the following from the Catalog of Objects:

- Data Foundation Metadata
- Business Metadata
- Process Metadata
- <u>Reporting Metadata</u>



#### Figure 17 - The Catalog of Objects

To use the Catalog of Objects window, follow these steps:

- 1. Click III in the *Metadata Browser* window to display the *Catalog of Objects* window.
- **2.** Click an object classification to display objects within it. For example, click Data Foundation to display objects within in such as Target Model and Sources. Click an object to drill down and view object details within it in a new tab with details of the selected Object.

#### Figure 18 - View Details of the Selected Object

CATALOG OF OBJECTS

	Catalog of objects	X S BP - Regulatory Capital X S BP - RC All	located Unex ×		
AV.		Business Processor Properties (2) Source Expression [MSR - Allocation Percentage at LE Level] * [MSR - R	Used In	1	Applications No items to display.
ራ	<del></del>	egulatory Capital - Allocated Unexpected Loss Based On Insurance Adj VaR] Expression Has Aggregate Function No	Objects	Object Types	
	BP - RC Allocated Unexpected Los				
	s Based On Insurance Adj VaR LE BPOEC167 BP - RC Allocated Unexpected Loss Based On Insurance Adj VaR LE		Depends On		
			8	4	
	SYSADMN on 20 Feb 16 07:02 PM Created		Objects	Object Types	
	SYSADMN Last Updated				
	SYSADMN on 20 Feb 16 07:02 PM Authorized			Details	
	P.				$\mathbf{O}$

The *Details* view provides the following details:

- Object basic details such as object name, object code, and description.
- Audit information such as created by, created date, last modified by, last modification date, authorized by, and authorization date
- Object-specific properties.
- Dependency details of the child objects.
- Use of the current object in the higher-order objects.
- Use of object in the various Applications.
- **3.** Click to export metadata details of a particular object to a PDF file.
- **4.** Click and to scroll horizontally through the different object properties displayed in the window.

The *Used in* section displays the number of Objects (parent or higher) and Object Types in which the selected object is used. The *Depends on* section displays the number of Objects and Object Types that depend on the selected object.

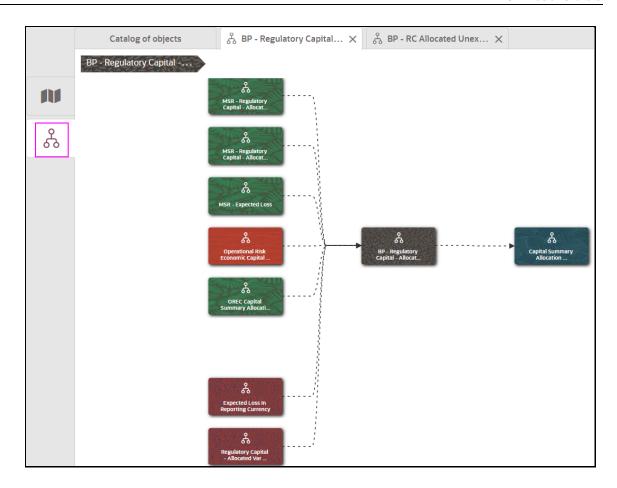
5. Click **Dependency** to display the **Used In** and **Depends on** Objects in the *<Object Name> - Dependency* context window:

Figure 19 - The View Dependency Details Context Window

3P - RC Allocated Unexpected Loss Based On Insurance Adj VaR LE - Dependency and Usage ×				
Used In (1) Object Name Object Type	Depends On (8) Object Name Object Type			
Legal Entity Risk Parameter Calculation 3 Computation Rule	MSR - Allocation Percentage at LE L Measure			
	MSR - RC Allocated Unexpected Loss Based On Insur Measure			
	MSR - Regulatory Capital - Allocated Unexpected Los Measure			
	OREC Legal Entity Summary Dataset Dataset			
	Operational Risk Economic Capital Legal Entity Sum Entities			
	Operational Risk Economic Capital Summary Entities			
	Allocation Percentage Columns			
	Regulatory Capital - Allocated Unexpected Loss Base Columns			

- 6. Mouse over the **Object Name** and **Object Type** column heading and click or  $\checkmark$  to sort the Object and Object Types in the ascending or descending order respectively. Click the link for a particular Object Name to open its details in a new tab. Close the context window to view the details.
- **7.** Click tab to display the dependency and use the mapping drill-down chart.

Figure 20 - View the Dependency and Use Mapping Drill-Down Chart



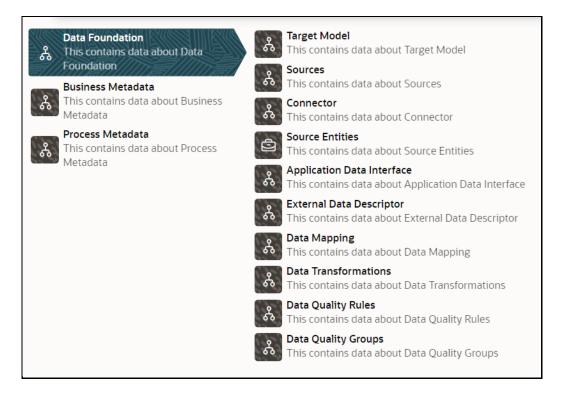
**8.** Click any object to trace the source of the originating data. View the data flow of the application and understand the use of objects within the application.

### 3.4.1 Data Foundation Metadata

The Data Foundation Metadata consists of the following object types:

- 1. <u>Target Model</u>
- 2. <u>Sources</u>
- 3. Connector
- 4. Source Entities
- 5. Application Data Interface
- 6. External Data Descriptor
- 7. Data Mapping
- 8. Data Transformations
- 9. Data Quality Rules
- **10.** Data Quality Groups

#### Figure 21 - The Data Foundation Metadata List



The following subsections provide details for the object types within Data Foundation Metadata.

#### 3.4.1.1 Target Model

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Target Model** to view a list of objects.
- **2.** Click the required object.

The Entity specific details are explained in the following table:

Field	Description
Entity Properties	Displays the table name, its short description, and long description.
Attributes	Displays the columns present in the entity.
Table Classification	Displays the classification of the entity and its description.
Depends On	The only dependent object type of an Entity is Column. Click <b>Details</b> to view the list of the <b>Depends On</b> objects. For more information, see the <u>Dependency window</u> .
Used In	The Object Types in which an Entity is used are Alias, Dataset, Measure, Business Processor, Hierarchy, Data Mapping, and so on. Click <b>Details</b> to view the list of the <b>Used In</b> objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the entity is used.

### 3.4.1.2 Sources

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Sources** to view a list of objects.
- **2.** Click the required data source.

The Source-specific details are explained in the following table:

Field	Description
Source Properties	Displays the properties of the source such as Type, JDBC URL, Schema name, and Database name.
Depends On	NA
Used In	The object types in which a Source is used are Source Entity, Data Mapping, and Data Quality Rule. Click <b>Details</b> to view the list of the <b>Used In</b> objects. For more information, see the
	Dependency window.
Applications	Displays the applications in which the Source is used.

#### 3.4.1.3 Connector

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Connector** to view a list of objects.
- **2.** Click the required connector.

#### Figure 22 - Select the Connector Data Source

ORACLE Metadata Browser	RACLE Metadata Browser OFSAD V					
Catalog of objects	Heade X 🖧 OBP Cust Acct OD Txn X					
	Properties (22)		Selected EDD (1)	Selected ADI (1)		
CBP Cust Acct OD Txn 2642 Taracetto Taracetto	Operation Import OFSAA module Staging Laading Mechanism SQLUR Direct True Panilel True Degree of Panilel S No. of Errors O Maxmium Discard	Avoid Partition Exchange No Do you want to use Datadump ? No Source and Target in Same Environment ? Yes Source Dump Location /src/mp Target/mp Number of Spills for Dump file 3 Effective Dated Key for Result Area? No Do you want to use DBLink ?	ED EV.CO.TNS Extend Total Strokene Description Staging Source for code banking Flatform Extend Total Store Type ORALE 08 PRO FLACE 00 PRO PRO PRO PRO PRO PRO PRO PRO	Aci Customer Account Transaction Subtription Description Description Customer Account Transaction		
OFSAD on 03 Feb 20 12:02 AM Created OFSAD on 06 Apr 20 02:04 AM Last Updated	ODI Folder DIH XML Date Format YYYY-MM-DD	Hive Date Format yyyy-MM-dd More				
[h				$\mathbf{O}$		

The Connector specific details are explained in the following table:

Field	Description
Connector Properties	Displays the properties specified for the connector.

Field	Description	
Selected EDD Displays the EDD associated with the connector. Click the EDD name to view details.		
Selected ADI	Displays the ADI associated with the connector. Click the ADI name to view the details.	
Mapping	Displays the mapping details between source and target for the connector. Click <b>More</b> to view the Mapping Details in a tabular format. Click Store to export the Mapping Details to an Excel file.	
Used In Displays the object and object types in which Connectors are used. Click <b>Details</b> to view the list of the <b>Used In</b> objects.		
Depends OnDisplays the dependent Objects and Object Types for Connectors. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects.		
Applications	cations Displays the applications in which the Connectors are used.	

### 3.4.1.4 Source Entities

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Source Entities** to view a list of objects.
- **2.** Click the required object.

The Source Entity specific details are explained in the following table:

Field	Description
Properties Displays the properties of the Source Entity such as Short Description and Le Description.	
Source	Displays the name of the Database Source to which it belongs.
Attribute Details	Displays the attribute details of the Source Entity. <b>Note:</b> This field does not apply to OFS Regulatory Reporting Applications.
Depends onThe only dependent object type for Source Entity is Database Source.Click <b>Details</b> to view the Source. For more information, see the <u>Depen</u> window.	
Used in	NA
Applications	Displays the applications in which the Source Entity is used.

### 3.4.1.5 Application Data Interface

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Application Data Interface** to view a list of objects.
- **2.** Click the required ADI.

OR/	ORACLE Metadata Browser OPS					OFSAD 🔻	
	Catalog of objects	ᇇ Customer Account	X K FLX Account Address X				
N	-413		Application Data Elements (4965	) Attribute Name	Used In		Applications
0			12 Month Gross Loss Rate Attribute Description	12Month Credit Conversion Factor Attribute Description	124	1	No items to display.
Å	Customer Account		This column holds the average doss Loss rete food by the group of accounts similar to the given account or a fail and the period extension of the second similar account of the second similar account is the second similar and base transmission of the second similar and base transmission of the second similar account is to computed as the product of the given account, it is computed as the product of the given account, it is computed as the product of the given account, it is computed as the product of the given account, it is computed as the product of the given account, it is computed as the product of the product of the second of the account of the second of the product of the second of the account is the account in the second of the second of the is the account is the is account of the next 12 months periodic long extenduct here account is periodic long	lue of the account for the corresponding period. The value is expected in decimal points, For CCF of 45 pe rcent, the value that will be stored in the column in 4 5. Domain Percent_Long Antibute Name Zhonth surveal Probability	objects Depends On 52 objects	Object Types 1 Object Types	
	OFSAD on 20 Jan 20 12:01 AM Created		Autobuce Hamiltonia 120 Days And Above Past Due Balance Artribute Description This column stores the 120+ Days Past Due Balance Domain				
	OFSAD on 20 Jan 20 12:01 AM		Amount				
	Last Updated	Fer			Det	ails	٥

Figure 23 - Select the ADI Data Source

The ADI specific details are explained in the following table:

Field	Description
Application Data Elements	This section displays the properties specified for the ADI.
Used In	Displays the object and object types in which the selected ADI is used. Click <b>Details</b> to view the list of the <b>Used In</b> objects.
Depends On	Displays the Objects on which the selected ADI is missing. Click <b>Details</b> to view the list of <b>Depends On</b> Objects.
Applications	Displays the applications in which the selected ADIs are used.

### 3.4.1.6 External Data Descriptor

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **External Data Descriptor** to view a list of objects.
- **2.** Click the required external data descriptor.

#### Figure 24 - Select the EDD Data Source

OR,	ACLE Metadata Browser				OFSAD 👻
	Catalog of objects	ie ×			
*	At Banking Txn Header Map. 2123 At Banking Txn Header Map.	EDS Properties (5) EDS Name INTF_AH_SDF_STAGE_SRC EDS Description Staging Source for order Privancial Services Fusion A counting Hub Cloud EDS Type ORACLE DSC UNI (doc crade farming with Oceanu In oracle com (521/ORCL POBI Schema Name DSV_DHISIATM	Properties (3) Table Name PS_TX0_AH_PEADEMARP Skip number of Records Transformation Type None	Data Elements (4)	Order Stans Name Yope VaRADR/D Vitor VaRADR/D VaRADR/D Scition O Order 4 Marco ProcesseD_MD Type C-Mar Length 1 Precision 0 O
	Created				
	OFSAD on 25 Feb 20 06:02 AM Last Updated				
	<del>س</del> اً)				Ø

The external data descriptor details are explained in the following table:

Field	Description
External Data Descriptor	This section displays the properties specified for the EDD. Under each EDS, it has all EDDs. When you click a particular EDD, it displays the definition of the EDD, with the name and Description displayed at the top. The Properties sections display two rows, EDS Properties, and EDD Properties.
Data Elements	The Data Element sections display all the fields/columns that are part of this EDD.
Used In	Displays the object and object types in which EDD is used. Click <b>Details</b> to view the list of the <b>Used In</b> objects.
Depends On	Displays the dependent Objects and Object Types for EDD. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects.
Applications	Displays the applications in which the EDDs are used.

### 3.4.1.7 Data Mapping

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Data Mapping** to view a list of objects.
- 2. Click the required mapping job.

**NOTE** If the properties of the T2T and T2F definitions have null values, then the Metadata Browser does not display the details.

The Data Mapping details are explained in the following table:

Field	Description
Definition Details	Displays the Source Name and the Definition Sub Type (T2T, T2F, or F2T).
Join Conditions and FiltersDisplays the ANSI Join, Joins, and Filters that have been used in creating the Mapping definition.	
<ul> <li>Mapping Details</li> <li>Click More to view the Mapping Details in a tabular format. Click export the Mapping Details to an Excel file.</li> <li>Select the UDPs which need to be displayed in the Mapping Detail</li> <li>Click Click Click is and select the required UDPs, and apply. This will identify the mappings applicable to the specified UDPs.</li> <li>Click Click Click</li></ul>	
Depends on	<ul> <li>The object types that are used in creating a Data Mapping definition are Entity, Columns, Data Source, Source Entity, and so on.</li> <li>For the Data Mapping definition with associated DQ rules, it additionally displays the DQ Rules.</li> <li>Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u>.</li> </ul>
Used In	The object types in which a Data Mapping definition is used are Run and Process. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the Data Mapping definition is used.

### 3.4.1.8 Data Transformations

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Data Transformations** to view a list of objects.
- 2. Click the required rules to convert data.

The rules to convert data details are explained in the following table:

Field	Description
Transformation Details	Displays the transformation type and its value. The transformation types are PLC_STORED_PROCEDURE and PLC_EXTERNAL_LIBRARY.
Depends on	The only dependent object type for Data Transformation is Entity. Click <b>Details</b> to view the list of the <b>Depends On</b> objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Data Transformation is used are Rule and Process. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .

Field	Description
Applications	Displays the applications in which the data transformation is used.

### 3.4.1.9 Data Quality Rules

- 1. From the *Catalog of Objects* tab, click **Data Foundation**, and then click **Data Quality Rules** to view a list of objects.
- 2. Click the required data quality rules.

The data quality rule-specific details are explained in the following table:

Field	Description
Specific Properties	Displays the specific properties of the data quality rule definition such as Check Type, On Source, Table, Column, Substring, Position, Length, and Filter.
Referential Integrity Check	Displays the details of different checks used in the data quality rule definition such as Range Check, Date Length Check, Specific Value Check, List of Value/Code Check, Null Value Check, Referential Check, Duplicate Check, and so on. <b>Note:</b> This field applies only to OFS Regulatory Reporting Applications.
Check Type	Displays the details of different checks used in the data quality rule definition such as Range Check, Date Length Check, Specific Value Check, List of Value/Code Check, Null Value Check, Referential Check, Duplicate Check, and so on.
Depends on	The dependent object types for Data Quality Rules are Entity and Column. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	Displays the data quality group in which the data quality rule is used. If the DQ rule is used in a Data Mapping definition, it displays the Data Mapping object under this grid. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the data quality rule is used.

### 3.4.1.10 Data Quality Groups

- 1. From the *Catalog of Objects* tab, **Data Foundation**, and then click **Data Quality Groups** to view a list of objects.
- 2. Click the required data quality groups.

The data quality group specific details are explained in the following table:

Field	Description
Specific Properties	Displays the specific properties of the data quality group definition such as Check Type, On Source, Table, Column, Substring, Position, Length, and Filter.
	Note: This field applies only to OFS Regulatory Reporting Applications.
Depends on	The only dependent Object Type for Data Quality Groups is Data Quality Rule. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The data quality group object cannot be used in any higher objects.
Applications	Displays the applications in which the data quality group is used.

### **3.4.2** Business Metadata

The Business Metadata is classified into the following types:

- 1. Base Metadata
- 2. Derived Metadata

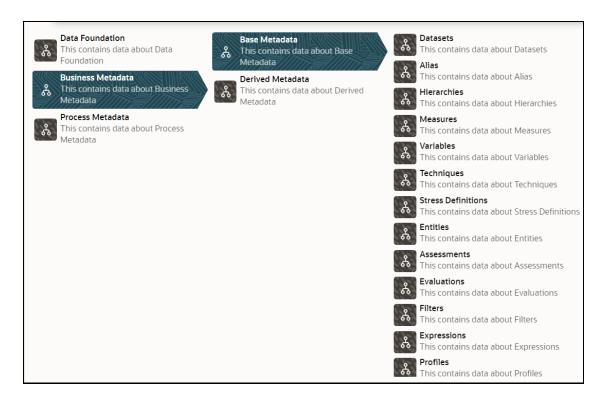
### 3.4.2.1 Base Metadata

The Base Metadata consists of the following metadata:

- 1. Datasets
- **2.** <u>Alias</u>
- 3. <u>Hierarchies</u>
- 4. Measures
- 5. Variables
- 6. <u>Techniques</u>
- 7. <u>Stress Definitions</u>
- 8. Entities
- 9. Filters
- 10. Expressions
- 11. Profiles

#### Figure 25 - The Business Base Metadata List

CATALOG OF OBJECTS



#### 3.4.2.1.1 Datasets

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Datasets** to view a list of objects.
- **2.** Click the required dataset.

The Dataset specific details are explained in the following table:

Field	Description
Dataset Properties	Displays the Join condition, Filter condition, Data filter, and Order By that are used to create the dataset.
Depends on	The dependent Object Types for Dataset are Entities and Aliases. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The Object Types in which a Dataset is used are Rule, Process, Business Processor, Cube, and Derived Entity. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the Dataset is used.

#### 3.4.2.1.2 Alias

1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Alias** to view a list of objects.

2. Click the required alias table name.

The alias table details are explained in the following table:

Field	Description
Depends on	The only dependent object type of an Alias is Entity. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which an Alias is used are Dataset, Measure, Business Processor, and Hierarchy. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the alias is used.

#### 3.4.2.1.3 Hierarchies

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Hierarchies** to view a list of objects.
- 2. Click the required Hierarchy to view its metadata.

The Hierarchy specific details are explained in the following table:

Field	Description
Hierarchy Properties	Displays the Hierarchy Type, Multi-dimensional Property (Regular or Time), and Total Required.
Depends on	The dependent object types for Hierarchy are Entity, Column, and Alias. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Hierarchy is used are Dimension, Rule, and Derived Entity. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the hierarchy is used.

#### 3.4.2.1.4 Measures

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Measures** to view a list of objects.
- 2. Click the required Measure to view its metadata.

The Measure specific details are explained in the following table:

Field	Description
Measure Properties	Displays the Aggregation Function, Measure Data type, Business Exclusions, Filter, and Rollup Type.
Denende en	The dependent object types for Business Measure are Entity, Alias, and Attributes.
Depends on	Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
	The object types in which a Measure is used are Cube, Hierarchy, Rule, and Business Processor.
Used In	Click <b>Details</b> to view the list of the <b>Used In</b> objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the Business Measure is used.

#### 3.4.2.1.5 Variables

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Variables** to view a list of objects.
- 2. Click the required variable to view its metadata.

The Variable specific details are explained in the following table:

Field	Description
Variable Properties	Displays the Type, Structure, Classification, Based on, and Variable property.
Depends on	The dependent object types for Variable are Entity, Business Measure, Business Processor, and Hierarchy. In the case of the Term Structure Variable, the dependent object will be Single Value Variables. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	Displays the number of Objects and Object Types in which the variable is used. A variable can be used in a Variable Shock or Model. In the case of a Single Value Variable, the Used In object can be Term Structure Variable. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the variable is used.

#### 3.4.2.1.6 Techniques

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Techniques** to view a list of objects.
- **2.** Click the required technique to view its metadata.

The Technique specific details are explained in the following table:

Field	Description	
Technique Properties	Displays the Technique Class, and Based On (for Script-based techniques and External Library based techniques). Additional properties like Provider Name and External Library Name are displayed for External Library based techniques.	
Technique Inputs	This is displayed only for techniques based on Script. Displays the name and the type of Input Parameters used in the technique. The parameter types are Variable and Single Value Parameter.	
Algorithm Details	This is displayed only for techniques based on External Library. Displays the Function Name, Return Type, and Function Definition.	
Technique Outputs	Displays the name of the configured outputs.	
Technique Properties	Displays the R script of the technique.	
Depends on	NA.	
Used In	A Technique is used only in the Model. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .	
Applications	Displays the applications in which the technique is used.	

### 3.4.2.1.7 Stress Definitions

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Stress Definitions** to view a list of objects.
- **2.** Click the required Stress Definition to view its metadata.

The Stress Definition specific details are explained in the following table:

Field	Description	
Stress Definition Properties	Displays the Segment in which the Stress Definition is defined.	
Depends on	The only dependent object type of Stress Definition is Run. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .	
Used In	A Stress Definition is used only in the Model. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .	
Applications	Displays the applications in which the stress definition is used.	

## 3.4.2.1.8 Entities

1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Entities** to view a list of objects.

2. Click the required Entity to view its metadata.

#### 3.4.2.1.9 Filters

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Filters** to view a list of objects.
- 2. Click the required filter object to view its metadata. The following are the types of filters:
  - Data Element Filter
  - Hierarchy Filter
  - Group Filter
  - Attribute Filter.

The Filter specific details are explained in the following table:

Field	Description		
Filter Properties	Displays the Access Code, Filter Type, and SQL query of the selected filter.		
Depends on	<ul> <li>Displays the object and its type which are used in creating the filter.</li> <li>For the Data Element filter, the dependent objects are Columns and Expressions.</li> <li>For the Hierarchy filter, the dependent object is Hierarchy.</li> <li>For the Group filter, the dependent object is the Data Element filter.</li> <li>For the Attribute filter, the dependent object is Dimension.</li> <li>Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u>.</li> </ul>		
Used In	<ul> <li>The object types in which a Filter is used depends on the Filter type.</li> <li>For the Data Element filter, the object type is Group Filter.</li> <li>For the Hierarchy filter, the object type is Rule.</li> <li>The Group filter and Attribute filter are used in applications.</li> <li>Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u>.</li> </ul>		
Applications	Displays the applications in which the filter is used.		

#### 3.4.2.1.10 Expressions

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Expressions** to view a list of objects.
- 2. Click the required Expressions to view its metadata.

#### 3.4.2.1.11 Profiles

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Base Metadata**, and then click **Profiles** to view a list of objects.
- 2. Click the required Profile to view its metadata.

# 3.4.2.2 Derived Metadata

The Derived Metadata consists of the following metadata:

- 1. Dimensions
- 2. Business Processors
- 3. Derived Entities
- 4. Filters
- 5. Expressions
- 6. <u>Cubes</u>
- 7. Catalog

#### Figure 26 - The Business Derived Metadata List

ു ⊺	Data Foundation This contains data about Data Foundation	ጽ	<b>Base Metadata</b> This contains data about Base Metadata	ራ	Dimensions This contains data about Dimensions
	Business Metadata	106	Derived Metadata	ቆ	Business Processors This contains data about Business Processors
	his contains data about Business Netadata	ጜ	This contains data about Derived Metadata	ቆ	Derived Entities This contains data about Derived Entities
ஃ ⊤	Process Metadata This contains data about Process			ቆ	<b>Filters</b> This contains data about Filters
	/letadata			ቆ	Expressions This contains data about Expressions
				ቆ	Cubes This contains data about Cubes
				ቆ	Catalog This contains data about Catalog

#### 3.4.2.2.1 Dimensions

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Dimensions** to view a list of objects.
- 2. Click the required dimension to view its metadata.

The Dimension specific details are explained in the following table:

Field	Description	
Business Processor Properties	Displays the Source Expression and the status of whether the Expression has an Aggregate Function.	
Placeholders	Displays the parameter names and their values for the selected business processor object. This field is displayed only if the parameters are defined for the BP.	
Depends on	The dependent object types for Business Processor are Dataset and Measure. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .	

Field	Description
Used In	The object types in which a Business Processor can be used is a Rule. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. Click the object link to drill down for more details. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the business processor is used.

#### 3.4.2.2.2 Business Processors

From the *Catalog of Objects* tab, click **Business Metadata**, **Derived Metadata**, **Business Processor**, and then click the required Business Processor object to view its metadata.

- **1.** From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Business Processors** to view a list of objects.
- 2. Click the required Business Processor to view its metadata.

The Business Processor specific details are explained in the following table:

Field	Description
Business Processor Properties	Displays the Source Expression and the status of whether the Expression has an Aggregate Function.
Placeholders	Displays the parameter names and their values for the selected business processor object. This field is displayed only if the parameters are defined for the BP.
	Note: This field does not apply to OFS Regulatory Reporting Applications.
Depends on	The dependent object types for Business Processor are Dataset and Measure. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Business Processor can be used is a Rule. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. Click the object link to drill down for more details. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the business processor is used.

#### 3.4.2.2.3 Derived Entities

From the *Catalog of Objects* tab, expand **Business Metadata**, **Derived Metadata**, **Derived Entity**, and then click the required Derived Entity object to view its metadata.

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Derived Entities** to view a list of objects.
- 2. Click the required Derived Entity to view its metadata.

The Derived Entity specific details are explained in the following table:

Field	Description
Derived Entity Properties	Displays Aggregate Flag, Materialized View, Application Name, and Source Name.
Depends on	The dependent object types for Derived Entity are Entity, Dataset, Hierarchy, Business Processor, and Measure. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Derived Entity is used are Dataset and Hierarchy. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the derived entity is used.

#### 3.4.2.2.4 Filters

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Filters** to view a list of objects.
- 2. Click the required filter object to view its metadata. The following are the types of filters:
  - Data Element Filter
  - Hierarchy Filter
  - Group Filter
  - Attribute Filter.

The Filter specific details are explained in the following table:

Field	Description		
Filter Properties	Displays the Access Code, Filter Type, and SQL query of the selected filter.		
Depends on	<ul> <li>Displays the object and its type which are used in creating the filter.</li> <li>For the Data Element filter, the dependent objects are Columns and Expressions.</li> <li>For the Hierarchy filter, the dependent object is Hierarchy.</li> <li>For the Group filter, the dependent object is the Data Element filter.</li> <li>For the Attribute filter, the dependent object is Dimension.</li> <li>Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u>.</li> </ul>		
Used In	<ul> <li>The object types in which a Filter is used depends on the Filter type.</li> <li>For the Data Element filter, the object type is Group Filter.</li> <li>For the Hierarchy filter, the object type is Rule.</li> <li>The Group filter and Attribute filter are used in applications.</li> <li>Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u>.</li> </ul>		
Applications	Displays the applications in which the filter is used.		

#### 3.4.2.2.5 Expressions

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Expressions** to view a list of objects.
- 2. Click the required Expressions to view its metadata.

#### 3.4.2.2.6 Cubes

- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Cubes** to view a list of objects.
- 2. Click the required Cubes to view its metadata.

## 3.4.2.2.7 Catalog

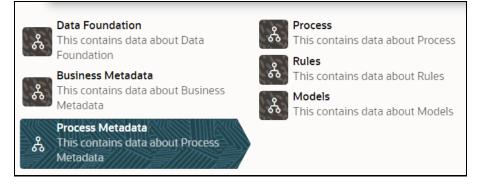
- 1. From the *Catalog of Objects* tab, click **Business Metadata**, click **Derived Metadata**, and then click **Catalog** to view a list of objects.
- 2. Click the required Catalog to view its metadata.

# 3.4.3 Process Metadata

The Process Metadata is classified into the following:

- 1. Process
- 2. <u>Rules</u>
  - a. Classification Rules
  - b. Computation Rules
- 3. Models
- 4. PMF Pipeline
- 5. PMF Task

#### Figure 27 - The Process Metadata List



# 3.4.3.1 Process

- 1. From the *Catalog of Objects* tab, click **Process Metadata**, and then click **Process** to view a list of objects.
- 2. Click the required Process to view its metadata.

The Process specific details are explained in the following table:

Field	Description
Process Specific Property	Displays the Effective Start Date, Effective End Date, and Last Operation Type.
Process Tree	Displays the sub processes and rules present in the process in a tree structure. Expand a subprocess to view the rules present in it. The rule can be Computation Rule, Data Transformation, or Model. Click <b>More</b> to display the Process Tree in a separate window.
Depends on	The dependent object types for Process are Data Extraction, File Load, Table Load, Data Quality Check, Data Transformation, RRF Rule, RRF Process, Aggregate Data, Essbase Cube, Pooling, Optimizer, Model, and Variable Shock. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Process is used can be another Process or Run. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the process is used.

# 3.4.3.2 Rules

A rule can be a classification rule or computation rule.

From the *Catalog of Objects* tab, click **Process Metadata, Rules,** and the rule type (Classification Rules or Computation Rules). Then click the required rule object to view its metadata.

- 1. From the *Catalog of Objects* tab, click **Process Metadata**, click **Rules**, and then click **Classification Rules** or **Computation Rules** to view a list of objects.
- 2. Click the required Rules to view its metadata.

The Rule specific details are explained in the following table:

Field	Description
Rule Specific Properties	Displays Pre Build Flag, Use ROWID, Merge Hint, Effective Start Date, Effective End Date, and Last Operation Type.

Field	Description
	Displays the mapping details of the rule.
Mapping	Click <b>More</b> to display the mappings in a separate window.
	Click to view the mappings in the tree view format to a grid view
	(tabular) format.
	<ul> <li>Click to export the mappings to an Excel file.</li> </ul>
Depends on	The dependent object types for Rule are Dataset, Hierarchy, Measure, Business Processor, Data Filter, Group Filter, Hierarchy Filter, and Attribute Filter.
	Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Rule is used are Process and Run.
	Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the rule is used.

# 3.4.3.3 Models

From the *Catalog of Objects* tab, expand **Process Metadata** and **Models**. Expand the required sandbox and click the model object to view its metadata.

- 1. From the *Catalog of Objects* tab, click **Process Metadata**, and then click **Models** to view a list of objects.
- **2.** Click the required Model to view its metadata.

The Model specific details are explained in the following table:

Field	Description
Model Properties	Displays the model properties such as Technique, Model Objective, Language, Type, and Input Data Type.
	<b>Note</b> : Technique will not be displayed for models based on R script.
Language	Displays the script of the model for R based models (script-based or R technique based).
Model Inputs	Displays the configured script variables and the selected variables.
Output Structures	Displays the Output Structure of the R based models (script-based or R technique based).
Input/ Output Parameters	This grid is displayed only for NAG technique based models.
	Displays the input and output parameters defined for the NAG technique based models.
Model Parameters	This grid is displayed only for models based on External Library techniques.
	Displays the Configured Script Parameters and the Parameter values.

Field	Description
Script	Displays the script of the model for R based models (script-based or R technique based).
Depends on	The dependent object types for the Model are Variable, Dataset, and Technique. <b>Note</b> : Technique will be displayed only for models based on R techniques or External Library based techniques. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Model is used are Run, Process, or Stress Definition. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the model is used.

# 3.4.3.4 PMF Pipeline

- 1. From the *Catalog of Objects* tab, click **Process Metadata**, and then click **PMF Pipeline** to view a list of objects.
- **2.** Click the required PMF Pipeline to view its metadata.

The PMF Pipeline specific details are explained in the following table:

Field	Description
Depends on	The dependent object types on the PMF Pipeline process. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a PMF Pipeline is used by another Process or Run. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the PMF Pipeline is used.

# 3.4.3.5 PMF Task

- 1. From the *Catalog of Objects* tab, click **Process Metadata**, and then click **PMF Task** to view a list of objects.
- **2.** Click the required PMF Task to view its metadata.

The PMF Task-specific details are explained in the following table:

Field	Description
	The dependent object types on the PMF Tasks.
Depends on	Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .

Field	Description
Used In	The object types in which a PMF Task is used by another Process or Run. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the PMF Task is used.

# 3.4.4 Reporting Metadata

The Reporting Metadata is classified into the following:

- 1. Dashboard
- 2. <u>Reports</u>
- 3. <u>Views</u>



		_	
ራ	Data Foundation These are objects which are used for defining and managin	ቆ	Dashboard
ቆ	Business Metadata These are unique set of business terms for managing the e	ቆ &	Reports Views
ጽ	Process Metadata These are collections rules, processes which facilitate t		
ቆ	Reporting Metadata These are the structural representations of regulatory or	)	

# 3.4.4.1 Dashboard

The Dashboard is a list of objects in Reporting Metadata.

- 1. From the *Catalog of Objects* tab, click **Report Metadata**, and then click **Dashboard** to view a list of objects.
- 2. Click the required **Dashboard** to view its metadata.

The **Dashboard** specific details are explained in the following table:

Field	Description
Dashboard Properties	Displays the Regulator, Frequency, and Dashboard Type.
Filters	Displays the Object Type and Object Name

Field	Description
Depends on	The dependent object types for Dashboard is Report. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	Displays the Object Type and Object name in which the Dashboard is used. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the dashboard is used.

# 3.4.4.2 Reports

The Reports is a list of objects in Reporting Metadata and it is dependent on the Dashboard.

- 1. From the *Catalog of Objects* tab, click **Report Metadata**, click **Reports** to view a list of objects.
- 2. Click the required Reports to view its metadata.

The Reports specific details are explained in the following table:

Field	Description
Depends on	The dependent object types for Report is Dashboard. Click <b>Details</b> to view the list of the <b>Depends On</b> Objects. For more information, see the <u>Dependency window</u> .
Used In	The object types in which a Report is used is the dashboard. Click <b>Details</b> to view the list of the <b>Used In</b> Objects. For more information, see the <u>Dependency window</u> .
Applications	Displays the applications in which the report is used.

# 3.4.4.3 Views

The Views is a list of objects in Reporting Metadata and it displays a list o objects.

- 1. From the *Catalog of Objects* tab, click **Report Metadata**, click **Views** to view a list of objects.
- 2. Click the required Views to view its metadata.

# 4 Applications

Data related details for the run or process pipeline for applications installed in OFSAA is displayed.

For more information about run or process pipeline, see the <u>Process Modeling Framework</u> <u>Orchestration Guide</u>.

# 5 Utilities

OFSAA has a list of utilities that support Metadata Browser functions.

**Topics:** 

- <u>Command Line Utility to Publish Metadata in the Metadata Browser</u>
- <u>Command Line Utility for Object Application Mapping in the Metadata Browser</u>

# 5.1 Command Line Utility to Publish Metadata in the Metadata Browser

A command line utility MDBPublishExecution.sh is available to publish Metadata in the Metadata Browser.

Following are the pre-requisites before executing this utility:

- 1. If the FICSERVER is configured to cache the metadata at the start-up of the server, you need to wait till the caching of metadata is completed to invoke this utility.
- **2.** Ensure that JAVA\_HOME is pointing to the JAVA bin installation directory.
- **3.** Ensure that the following jar file is present in the <code>\$FIC\_DB\_HOM/lib</code> directory.

aai-wsclient-mdbpublish.jar,aai-wsmdbpublishservice.jar

4. Ensure that MDBPublishExecution.properties file is present in \$FIC\_DB\_HOME/conf
folder.

You can also manually update the properties file in the path \$FIC\_DB\_HOME/conf/MDBPublishExecution.properties to point to the required
ServiceURL.

MDBPUBLISH\_EXECUTION\_WSDL\_LOCATION = URL of WebService (For example, http://<<IP ADDRESS>>/OFSAAI/mdbPublishExecution?wsdl)

5. Metadata should be present.

To execute Metadata Browser publish utility:

- 1. Navigate to \$FIC DB HOME/bin of OFSAAI FIC DB tier.
- 2. Execute MDBPublishExecution.sh (UNIX)

For example, ./MDBPublishExecution.sh

**3.** While executing, provide any of the following parameters as required:

ALL - To publish metadata to all the available information domains.

INFODM1 - To publish metadata to only one (specified) information domain.

INFODOM1~INFODOM2~INFODOM3 - To publish metadata to multiple (specified) information domains separated by tilde "~".

**NOTE** If no parameter is specified, by default "ALL" option is considered.

- 4. You can access the location <code>\$FIC\_DB\_HOME\log\MDBPublishExecution.log</code> to view the related log files.
- 5. The publish execution specific log information is present in the MDBPublish.log file available at the <DEPLOYED LOCATION>/<Context>.ear/<Context>.war/logs folder.

To run the utility through the Operations module:

- 1. Navigate to the Operations module and define a batch.
- 2. Add a task by selecting the component as RUN EXECUTABLE.
- **3.** Enter Metadata Value as mentioned in the example.

For Example: Component ID: RUN EXECUTABLE Metadata Value (Executable) like: MDBPublishExecution.sh, LANG611INFO (where LANG611INFO is the Infodom) Batch = Y

# 5.2 Command Line Utility for Object Application Mapping in the Metadata Browser

The following command line utility is introduced to perform Object Application mapping.

Following are the pre-requisites before executing this utility:

- 1. Ensure that JAVA\_HOME is pointing to the JAVA bin installation directory.
- 2. Ensure that the following jar file is present in the <code>\$FIC\_DB\_HOM/lib</code> directory.

aai-wsclient-mdbpublish.jar, aai-wsmdbpublishservice.jar

3. Ensure that ObjAppMap.properties file is present in \$FIC\_DB\_HOME/conf folder.

You can also manually update the properties file in the path <code>\$FIC\_DB\_HOME/conf/ObjAppMap.properties</code> to point to the required ServiceURL.

MAP\_WSDL\_LOCATION= URL of WebService (For example, https://<<IP ADDRESS>>/OFSAAI/ mdbObjAppMap?wsdl)

To execute the Metadata Object Application Mapping utility:

- 1. Navigate to \$FIC DB HOME/bin of OFSAAl FIC DB tier.
- 2. Execute MDBObjAppMap.sh (UNIX)

For example, ./MDBObjAppMap.sh

- 3. While executing, provide any of the following parameters as required:
  - ALL To do object application mapping in all the available information domains.
  - INFODM1 To do object application mapping in only one (specified) information domain.

 INFODOM1~INFODOM2~INFODOM3 - To do object application mapping in multiple (specified) information domains separated by tilde "~".

**NOTE** If no parameter is specified, by default "ALL" option is considered.

You can access the location <code>\$FIC DB HOME\log\MDBObjAppMap.log</code> to view the related log files.

# **OFSAA Support**

Raise a Service Request (SR) in <u>My Oracle Support (MOS)</u> for queries related to OFSAA Applications.

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