# Oracle® Data Foundation Cloud Service Data Catalog





Oracle Data Foundation Cloud Service Data Catalog, Release 25B

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## **About This Guide**

This section provides supporting information for the Oracle Data Foundation Cloud Services for Banking (DFCS).

#### **Audience**

This document contains release information of Oracle Data Foundation Cloud Services for Banking (DFCS).

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#### **Related Resources**

Data Foundation for Banking

#### Conventions

The following text conventions are used in this document.

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

# **Data Catalog Overview**

The Data Platform is a suite of services, including Data Catalog and Data Integration services, designed to support data management for Oracle's Finance, Risk, and Compliance applications.

Data Platform services include the following:

- Data Catalog
- Data Controls
- Issues and Actions
- Data Maintenance
- Data Services Data Operations

## 2.1 Data Catalog

Data Catalog is the logical representation of the underlying Data Model, which is contextualized by the Metadata to enable a better understanding of the Data Model and the enterprise-wide data. For example, understanding the End of Period Book Balance in the context of Loans and Securities may require two definitions of the term in discovering. A further analysis of the Metadata helps discovering, the sources, current business uses of the element, validation checks, and any privacy aspects.

The Data Catalog comprises of elements called Business Terms supporting business needs of the Banking and Financial Services Industry across the Finance, Risk, and Regulatory Compliance Functions. Data Catalog includes sourced, calculated, and master elements. Elements that require conformation to the standards will have a list of expected values. A combination of Business Terms and Entities form the underlying Data Model. The search capability allows you to explore data by different dimensions.

The Data Catalog helps you understand the business relevance of an Element and the associated Data Definition, grain through Entities and Subject Areas. You can group the Data Catalog by Subject Area and this subset is narrowed down to a business use case (For example, Basel Credit Risk).

In a multi-domain Data Catalog environment, you need to select the required Financial Domain that filters the Subject Areas relevant to the selected Domain or Service, Entities under the Subject Area, and Elements mapped to the Entities.

The Data Catalog is the gateway to create, view, or manage the physical instance of the Data Model.

You can use out-of-the-box define Pipelines (table to table process, Connector) to load data into the Entity, and execute and manage the Process.

The fundamental objectives of the Data Catalog are as follows:

- To provide a unified logical view of the Enterprise Data Model.
- To enable data discovery using predefined Metadata that is modifiable by Users.
- To support end-to-end data lineage as it connects data sources and uses.



# 2.2 Catalog Key Capabilities

Data Catalog provides the Data Model for the Financial Services Industry. The key capabilities of the Data Catalog are as follows:

- Catalog Browser: Data Catalog consists of a Viewing Framework. The Data Catalog
  Browser API-based Interface allows you to view the Data Catalog Components. The
  Catalog Browser enables the Users to go through the Data Catalog Contents and view the
  Business Terms by Domain, Subject Areas, and Entity. The Catalog Browser also shows
  the Properties of Business Terms, Contextual Definition in a User-friendly language, List of
  Values, Data Sourcing Components, and Data Quality Rules.
- In-built Data Modelling Capabilities: Data Catalog contains all the required information to establish services underlying the Data Model, which is Entities, Attributes, and the relationship between Entities and Attributes. Similar to any Entity Relationship Modelling Tool used for this purpose, the Data Catalog can build, manage and hold Data Model for the deployment purpose.
- Data Quality Checks Rule: Data Catalog Contents include Data Quality Checks Rule so the system incoming data can be verified and validated.
- Catalog Extension: Data Catalog supports a Framework to extend the Data Catalog called as the Data Catalog Extension or catalog Extension. The Catalog Extension allows user to extend the Seeded Catalog Contents to support a new or client-specific business use cases. You can add new Business Terms or customize the existing definitions when the Business Term is enforced by the external entities.
- Comprehensive Coverage: Data Catalog provides a collection of comprehensive Business Terms across the Business Lines and Use Cases.
- Data Movement: Data Catalog provides the mechanism of Stage to Standardize to
   Process to move the Data along to the Result for analytical consumption. The Catalog
   Services are accessed through API calls used by the Data Services Module to move data.

## 2.3 Catalog Architecture

Data Catalog is at the center of sources and uses of data. Along with providing comprehensive understanding of data through the available metadata about sources and uses, it is necessary to be able to enrich or modify as required. In this direction OFS Data Catalog is designed to support integration with Data Sources and downstream uses, which means predefined for known uses and extendable for the unknown. The Data Catalog by Subject Area can be further segregated as Sources, Results (calculated), and Master Data that are sourced and seeded, which helps to plan the sourcing and supplying of data based on the Enterprise needs. Considering the need to serve a conglomerate of Users, the Data Catalog is embedded with a sound Governance Framework assuring the security and privacy.



Catalog Data Sources Connector Applications Metadata Services Map · Quality Assessment and Join Repair Classification/Reclassific Convert · Look-up and ation Substitute Business Logic · Transform in-flight Execution Deterministic Assessments Aggregation and Grouping

Figure 2-1 Data Catalog Architecture Diagram

## 2.4 Catalog Components

A well-defined structure is followed to seed and organize the Data Catalog Contents for efficient discovery and management. The structure starts with a Domain, which for example, in the OFSAA context can be either Banking or Insurance, and for this Domain, the Contents are created. Each Domain can have multiple Subject Areas, and a collection of Entities and Business Terms associated with those Subject Areas.

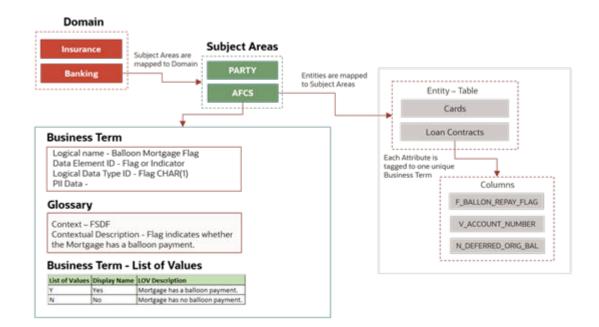


Figure 2-2 Data Catalog components

The Data Catalog consists of the following Components:



- Domain
- Subject Area
- Entity
- Business Term
- Glossary
- Data Quality Check Rules

### 2.4.1 Domain

A Domain represents the category of the Business in the Finance Industry.

Data Catalog consists of the Data Catalog Framework and Seeded with Contents related to a specific Line of Business or Industry, which is referred to as a Domain.

In OFSAA, select Banking Domain.

By selecting the Domain Name, you can restrict viewing the Catalog Components only to the intended Domains and deploy the Data Model also selectively.

### 2.4.2 Subject Area

A Subject Area represents a high-level data organization, which belongs to a group of related areas within a specific functional area of a Finance Organization.

Entities are grouped together into distinct Subject Areas based on the business functions or processing supported for a better identification and usage.

The relationship type between Domain and Subject Area is Many-to-Many.

The following are a few examples of Subject Areas in the Data Catalog:

- Data Foundation Cloud Service for Banking
- Party
- Product Processor
- Transaction
- Product

### 2.4.2.1 Relationship Between Subject Areas

Data Catalog has a provision to define the Parent-Child Relationship between the Subject Areas. Therefore, you can define the Parent-Child Relationship as follows if there is a business need:

Domain to Subject Area Relationship

### 2.4.3 Entities

Catalog has a comprehensive list of entities to support a very wide range of analytical business use cases across Banking domains. These entities are mapped to the subject area and the domain which helps in deploying the model, either completely or selectively, based on the services the user has subscribed.



Users can navigate through the logical layer comprising of entities using the Catalog Viewer. The physical layer comprising of table and column names are inconsequential to the user, and therefore, it is hidden from them.

### 2.4.3.1 Entity Type

Entities in the model are grouped into the following types based on data layers they are tied to:

- Download or Staging
- Result
- Dimension
- Preparation
- Integration

Preparation and Integration Entities or layers are internal to a product. A Preparation layer contains entities used for processing while an Integration layer contains placeholders for other engines or applications to publish their processed output.

### 2.4.3.1.1 Stage Entity

Stage Entities are a part of the Unified Data-Sourcing layer for data for a wide variety of analytical needs. The Staging layer faces the operational (OLTP) and Front Office Systems of a bank. It consists of entities to capture key business and operational data from these systems, which is then processed by one or more Analytical Engines.

Since these entities are designed to facilitate loading efficiency, they are denormalized. Typically, this data is extracted from source systems and placed in the object store and then loaded to Staging Entities using data services.

### 2.4.3.1.2 Result Entity

It is a Unified Reporting or a Consumption layer. Analytical results can be simple to complex, contain quantitative and qualitative measures of a bank's Risk, Compliance, Customer and Financial Performance. The Reporting layer is a Dimensional Data Model spanning these key analytical functions. It forms the foundation of OFSAA Business Intelligence Applications but can clearly be used as the result data store for any equivalent engines and processes provided by other vendors, or custom built solutions. By providing a Single Data Repository for reporting needs, this layer provides a foundation for departmental as well as Cross-Departmental and Cross-Functional Reporting. Additionally, the schema of the reporting area is specifically built for Financial Services Analytics. As an illustration, the reporting area has a **Run Dimension** that is shared across all BI/reporting use cases. Similarly, the aggregation of shared measures/ reporting into a common set of output structures (Account Summary) allows for Cross-Functional Reporting, which is increasingly the norm in Financial Institutions.

It is also the layer where all the input data sourced by the user through Staging Entities are persisted and available for reporting and consumption.

Along with the definition or structure of these entities, the catalog also provides mapping metadata to populate these entities from sourcing to PMF Data Pipeline.

Currently, this layer has entities to persist Journal, General Ledger Account, Transactions and Contract Data to cater to the needs of the DFCS solution.



For any existing extractions defined on Journal, Journal Header, and General Ledger Account Data, re-select the grain, entity, and attributes and save. This will enable extraction from the Persistence layer.

#### (i) Note

This is applicable only for the Banking domain. The PMF pipeline **Account Load Run Map Population** execution should have completed before executing the below step. This step is required for Common Account Summary and Transaction Summary data population.

Based on the domain, select **Add Domain** under **Administration**, domain specific Result Area Entities are populated.

The user must manually execute a **PMF Pipeline Result Area Entities Data Population** to populate data in the Result Area tables.

#### Note

This is specific to Banking domain. The following Target tables Accounting Entries, Accounting Entries Header, Currency Exchange Rates, General Ledger Data, Common Account Summary and Transaction Summary are used for data population in the result area.

The user must manually execute a **PMF Pipeline Data Service Result Area Data Population** to retrieve the data in the Result Area tables. The persistence of day and period-to-date movement information is performed through this pipeline.

#### (i) Note

The **As of Date** parameter value passed while executing PMF Pipeline **Data Service Result Area Data Population** filters on **Effective Date** attribute in the source entity.

### 2.4.3.1.2.1 Execute Result Area Entities Run Pipeline

The steps to execute the Result Area Entities Run Pipeline are as follows:

#### Prerequisite:

The SCD pipeline execution should have completed before executing the below steps. For more details, see <u>Slowly Changing Dimensions</u>.

- 1. Execute the Run Pipeline after data is loaded in the Stage tables and processed.
- Use the Run Execution Parameter As of Date to execute for each date, to get the data in the result tables. This parameter value is applied as a filter in the source entity on As Of Date Business term.
- If you execute multiple times within a day, the data is loaded with different Run Execution Skey.



For example, if the execution is done thrice a day, the data is loaded thrice into the Target



#### (i) Note

You should not re run the already executed pipeline. If you re run, the execution fails due to duplicate Run Execution Skey. You can resume the execution in case of pipeline failures after fixing the errors.

If the execution is repeated with the new Run Skey, the entire data available in the Stage table will be loaded to the Target table.

### 2.4.3.2 Properties

Entity consists of a set of Attributes. Each Attribute is mapped to a unique Business Term. Each Attribute derives its characteristics such as Data Type, Constraints, and so on from the **Business Definitions.** 

### 2.4.3.3 Granularity

Data Catalog defines granularity of each of the Entity it holds.

V_GRAIN_ID	V_GRAIN_NAME
DATE	Date
ACCT	Customer Account
ACCT_TXN	Customer Account Transactions
ACCT_ENT	Accounting Entries
GL_DATA	General Ledger Data
EXCHANGE_RATE	Exchange Rates
PARTY_CONSENT	Party Consent

For example, as the Loan Contracts Entity contains information at the Account Level, the grains of Loan Entity are defined as ACCT.

### 2.4.4 Business Term

A Business Term is a Functional Keyword that represents a unique functional aspect of the Financial Artefacts (Entities and Attributes). There is a business meaning to each Financial Artefact, and therefore, a business name is created in the form of a Business Term. Then the Business Term is used to find and fit into a purpose of different contexts. Therefore, Business Terms are expressions of the Participants/Actors, their Activities, and requirements conveyed in common business.

The approach to arrive at the Logical View of the Physical Model has inverted in the Data Catalog. Contrary to the previous practices, first the Functional Keyword or Artefacts are identified, collated, and then expressed in common business language, and then the corresponding Physical Model is developed.

Multiple Business Terms are a part of each Subject Area. A Business Term is a singular term irrespective of multiple places it appears in and the Business Term will have a recognizable naming pattern.

Metadata is attached to the Business Terms.



The Content Structure allows you to define relationship between related Business Terms for better discovery and usage in the aspect of sourcing.

Table 2-1 Example of Relationship between Business Terms

<b>Business Term</b>	Related Business Term	Relationship Type
Current Write Off Amount	Write Off General Ledger Code	MEASURE_GL

To create or update a Business term, see Create Business Terms.

### 2.4.4.1 Business Term Properties

In the process of creating a Business Term, certain characteristics are also defined that serves as input when arriving to a Physical Model Structure. These characteristics include origin, classification, logical data type, PII term indicator, list of accepted values, and data quality check applicable for a Business Term.

The Business Term Properties are as follows:

- Term ID
- Logical name
- Origin
- Data Element ID
- Language
- Logical Data Type ID
- PII Flag
- LOV Code
- Display Name
- LOV Description

#### (i) Note

The Business Terms for which PII Flag is set and for those Business Terms that are used in Entities, the underlying attributes of those Entities will be redacted by applying the appropriate redaction policies. A normal user cannot query or view the redacted data. Only users with exempt redaction policy role can view or query the data.

### 2.4.4.2 Business Term Glossary

For each Business Term, there is a corresponding Glossary. The Glossary explains the meaning and purpose of each Business Term, which is the context. The Glossary consists of the information such as description, usage, sample values, and usage examples of the Business Terms.

### 2.4.4.3 Business Term List of Values

Data Catalog defines and seeds the List of Values for all the Business Terms that are Flags. The List of Values help you with data sourcing and creating Data Quality Checks.



Table 2-2 Example of Business Term List of Values

List of Values	Display Name	List of Values Description
Υ	Yes	Mortgage has a balloon payment
N	No	Mortgage has no balloon payment

#### 2.4.4.4 Related Business Terms

Catalog has a provision to store the metadata to represent the relationship between two Business Terms along with the type of relationship.

Some information is later used for specific purpose. For example, In the case of Shared\_definition relationship type, Data Quality rules are automatically replicated for the related Business Term if there are rules existing for the Business Terms.

MEASURE\_GL is another relationship type where the Business Term is a reconciliation measure and the related Business Term is corresponding to a GL account.

Table 2-3 Example of Related Business Term

<b>Business Term</b>	Related Business Term	Relationship Type
Account or Contract Number	Parent Account Number	SHARED_DEFINITION
End of Period Balance	General Ledger Account code	MEASURE_GL
Maturity Amount	Maturity Date	VALUE_AS_OF_DATE
End of Period Balance	End of Period Balance in Local Currency	CURRENCY_EQUIVALENT
Account Tenor	Tenor Unit	MULTIPLIER_UNIT

## 2.4.5 Data Quality Checks

Data Catalog Contents include Data Quality Check Rules. These Rules are defined at the Business Term and Entity Level, and seeded as a part of the Data Catalog Content. For more information on user-configurable Data Quality Rules, see <u>Data Quality Framework</u>.

### 2.4.5.1 Types of Data Quality Checks

The following are the types of Data Quality Checks and their definitions:

Data Quality Check	Definition
Blank Value Check	Identifies if the base column is empty considering the blank space.
Column Reference/Specific Value Check	Compares the base column data with another column of the base table or compare with any attribute of compatible data type from a referenced dimension of a base entity.
Data Length Check	Checks for the length of the base column data by using a minimum and maximum value, and identifies if it falls outside the specified range.



Data Quality Check	Definition	
Duplicate Check	Is used when a combination of the column is unique and identifies all duplicate data of a base table in terms of the columns selected for the duplicate check.	
List of Value Check	It can be used to verify values where a dimension/ master table is not present. This check identifies if the base column data does not match with a value or specified code in a list of values.	
NULL Value Check	Identifies if NULL is specified in the base column.	
Referential Integrity Check	Identifies all the base column data that has not been referenced by the selected column of the referenced table. Here, the user specifies the reference table and columns.	
Range Check	Identifies if the base column data falls outside a specified range of a Minimum and Maximum value. Value Needs to be between 0 and 100.	
Uniqueness Check for Numeric Identifiers in Dimension	Check to identify duplicates in Numeric Identifier Attribute for a Dimension Entity. Check to identify changes in Numeric Identifier Attribute for a Dimension Entity for the same Business Key member.	
	(i) Note	
	Threshold option is currently not supported for custom check.	
Special Character Check	Identify business term contains only the allowed set of special characters. Currently, DFCS has preconfigured rules for the following Business Terms: Legal Entity Code Legal Entity Description Legal Entity Name Data Source Code	



The check category for custom DQ check referencing to dimensions will be shown as Custom Check in the Data Quality Result reports.

Data Source Description

### 2.4.5.2 Use and Execute the Source Data Quality Check Process

Use this Run Pipeline (Process) to generate and view the Data Quality report for any of the Data Quality run execution. The Data Quality Reporting Engine Pipeline uses the 'As of Date' and the 'Run Identifier' parameters to generate the Data Quality reports for run executions which are in 'Completed' status either for a passed or a failed run execution.



Once the DO Report has been generated for the failed DO run pipeline, post the execution of this PMF, users must provide the Process Instance ID of the failed DQ run to the public API to view the DQ Groups that are breaching the threshold limit. For more information, see Data Operations Guide.

To access the Source Data Quality Check Process Pipeline, select the Process Orchestration from the home page.

The **Process Modeller** page is displayed.

On the Process Modeller page, search and select the Source Data Quality Check **Process Pipeline.** 

The Process Flow page is displayed. This Process Flow is designed on the Drawing Canvas using the Transition, Activity, and Widgets Components available in the floating toolbar. RUN DO RULE widgets representing Data Quality Groups are set up in parallel to each other. A Data Service widget called as Data Quality Reporting Engine is added at the end meant for reporting Data Quality Checks.

- To view the details of any widget, double-click on the widget and the details related to its Activity, Transition, and Notification are displayed. On the drawing canvas, you can select and see the Definition, Data Fields, and Application Rule details.
- To execute the Run, you can select the Run Parameter Values using the Execution button on the **Process Flow** page or on the **Process Modeller** page.
- Go to the **Process Modeller** page to execute the **Run**.
- Click the menu button corresponding to the Source Data Quality Check Process that needs to be executed.
- Click Execute Run.

The **Execution** page is displayed.

- On the **Execution** page, to execute the **Run** with parameters, select **With Parameters** in the Execution Type list.
- Select the required **As of Date** for which the Data Quality Checks need to be processed.
- 10. Click Apply to initiate the Run Pipeline execution.

#### (i) Note

The execution of the Run Pipeline is triggered using the selected Extraction Date. See the *Process Orchestration* section for more details about the Process Orchestration framework.

To verify the Run Execution of the Source Data Quality Check Process, do the following:

To open the **Process Monitor** page, on the Process Modeller page, click the **Process** Monitor button or select Process Flow Monitor on the Process Modeller menu.

The Process Monitor page is displayed, which lists all the Run Instances corresponding to the Source Data Quality Check Process.



- b. On the Process Monitor page, search by the Process ID, or by the Process Name Source Data Quality Check Process, and select the Process Instance for the required Run Pipeline (Process) that was executed.
- 11. The Process Flow page is displayed with the Run Execution Status on each Node of the Source Data Quality Check Process.
- 12. To verify the Run Execution Logs, do the following:
  - a. On the Process Monitor page, click the required Process Instance for which you need to verify the Execution Logs. The Process Flow page is displayed with the Run Execution Status on each Node.
  - b. To see the Execution Status details of a Node, double-click on that Node. The Execution Status details page is displayed.
  - c. Click Execution Logs.

The Log Viewer page is displayed, which lists all the Logs related to the Process Instance. To see the details of a log entry, click the Show More Button. Click outside the Log Viewer page to close it.

## 2.5 Catalog Browsing

Managing data efficiently is key to seamless integration, validation, and accessibility. Follow these steps to create a well-structured data catalog, map glossary terms, and integrate connectors for a smooth data management experience.

### 2.5.1 View Catalog Summary

The Foundation Catalog for Banking is a published data set within the Oracle Financial Services Analytical Applications (OFSAA). It serves as a data warehouse aiding financial institutions in managing risk, performance, and compliance.

Click on Catalogs under Data Catalog section.

The catalog summary page has the below components:

**Table 2-4 Catalog Summary** 

Column	Description
Catalog Status	Catalog Status indicates the current status of the catalog:  Draft – The catalog is still being modified by the user.
	<ul> <li>Validated – The catalog has been reviewed and validated but is not yet published.</li> </ul>
	<ul> <li>Published – The catalog is finalized and available for use.</li> </ul>
Catalog Title	<ul> <li>Catalog Title includes the following details:</li> <li>Catalog Name – e.g., PBSM Catalog</li> <li>Publish Version Number- Refers to the unique identifier assigned to a specific version of a configuration, rule, or dataset that has been finalized and made available for use in</li> </ul>
	production or downstream processes.  • Catalog Description – A brief description (up to 250 characters)



Table 2-4 (Cont.) Catalog Summary

Column	Description
Catalog Type	Catalog Type includes: Type of Catalog – e.g., Foundation, Application, BIRD, Seeded Source/Results – Indicates whether the catalog is a source or results catalog
Created by	Created By includes details of the user who created or last modified the catalog.
Purpose	Ingress / Egress- for data movement into and out of systems.
Source	Seeded – provided out-of-the-box by the system.
Line of Business	All – applicable across all business areas.
Count	<b>Count</b> displays the number of Business Terms followed by the number of Entities.
	The <b>Menu Button</b> (also known as the meatball or burger button).



#### Note

At least two versions of the catalog must be in the **Published** state to access the Audit History option under the ... menu.

## 2.5.1.1 View Catalog

The table below outlines the fields and data displayed on the View Catalog screen.

1. Click the three-dot menu (1) on the catalog tile or detailed view.

Table 2-5 View Catalog

Field Name	Description
Name	A freeform field where the user enters the catalog name. This is a <b>mandatory</b> field.
Source	A drop-down field where the user selects the catalog's source. This is a <b>mandatory</b> field.
Source Version	Specifies the version of the selected source. This is a <b>mandatory</b> field.
Published Date for the Source	Displays the source's published date. The maximum allowed date is the current date.
Purpose	A drop-down field where the user selects the catalog's purpose. This is a <b>mandatory</b> field.
Product Category	A drop-down field where the user selects the appropriate product category.
Line of Business	A drop-down field where the user selects the relevant line of business.
Description	A freeform field where the user enters a description for the catalog. This is a <b>mandatory</b> field.



Table 2-5 (Cont.) View Catalog

Field Name	Description
How to use	An optional field where the user can provide details on how to use the catalog or its intended purpose.

Click Download Catalog to Download and Export the Metadata.

### 2.5.2 Glossary Mapping Summary

Glossary mapping in a data catalog refers to linking business terms from a **primary catalog** (such as an PBSM glossary) to equivalent or related terms in a **mapped catalog** (like application-specific glossaries).

The **Glossary Mapping Summary** page, similar to the Catalog Summary and Connectors, provides an overview of glossary mappings.

- 1. Click **Glossary Mapping** to view the list of Glossary Mapping.
- Click on Search to filter using Glossary Mapping Name, ID, Source, Target and Created By.
- 3. The summary page displays Mapping Name, Primary Catalog, Mapped Catalog and total mappings details.
- 4. Click on three dots to view, extend, or publish the selected glossary mapping.
- **5.** This section is divided into four steps:
  - Glossary Mapping Details
  - Direct Mapping
  - Expressions
  - Extension
  - Review
- 6. View Glossary Mapping Details: This step sets the context for the mapping. Define mapping details and upload the mapping data you have created from the system Glossary Mapping Template (xls).
  - a. Enter the following details:
    - Mapping Name
    - Description
    - Primary Catalog
    - Mapped Catalog
- 7. Direct mapping: Map the business terms of primary catalog to the business terms of mapped catalog. Direct mapping handles straightforward 1-to-1 business term relationships between catalogs.
  - a. Click **Search** to filter based on the selected criteria.
  - Select/ Unselect the Show Mapped and Unmapped Business Terms.
- **8. Expression**: Map the business terms of primary catalog as if being sourced from the business terms of mapped catalog.
  - Used to map complex relationships or transformations.



- Only applicable for terms **not** mapped under Direct Mapping.
- Interface allows filtering:
  - Search by term
  - Show mapped/unmapped business terms

#### 9. Extension:

- 10. Review: Summarizes the complete mapping details.
- 11. Click **Submit** or **Cancel** the mapping process.

Table 2-6 Glossary Mapping Summary User Interface

Column	Description	
Glossary Mapping Status	<ul> <li>Indicates the current status of the glossary mapping:</li> <li>Draft – The user is still making changes.</li> <li>Validated – The mapping is validated but not yet published.</li> <li>Published – The mapping is finalized and available for use.</li> </ul>	
Glossary Mapping Title	Includes:  Name of the mapping  Publish version number  Last updated by and the time since the last update	
Mapping Catalog Type	Specifies:	
Mapped Catalog Name and Version	Displays the name and version of the mapped catalog.	
Count	<ul> <li>Shows the number of mappings for the respective glossary:</li> <li>Published &amp; Validated Status – Displays the count of mappings.</li> <li>Draft Status – Displays Not Validated.</li> </ul>	
(Menu Button)	Also called the <b>Meatball/Burger Button</b> . Clicking it provides the option to <b>View the Glossary Mapping</b> .	

#### **Sorting & Additional Options**

• The **Glossary Mapping Summary** is sorted by **Connector Name** by default. Users can change the sorting order using the **Sort By** button.

### 2.5.2.1 View Glossary Mappings

The **View Glossary Mappings** feature allows users to review and manage glossary mappings within the system. It provides a detailed view of mapped glossaries, their statuses, and associated catalogs.

#### **Key Features:**

 Displays glossary mapping details, including mapping status, catalog type, mapped catalog name, and version.



- Allows users to filter and sort mappings based on different attributes.
- Provides an option to view detailed mapping relationships between glossaries and catalogs.
- Users can access this view by selecting the View Glossary Mapping option from the Menu (Meatball/Burger) button in the Glossary Mapping Summary.

### 2.5.3 Connectors

The **Connectors Summary** interface displays connector details in a structured table format, providing insights into their status, source, target catalogs, and mappings.

For more information, see the Connectors section in the Data Platform User Guide.

### 2.5.3.1 View Connector Details

The **View Connector Details** feature offers a step-by-step guided interface to help users review, configure, and manage connector information efficiently. This section provides all necessary settings to ensure smooth data transfer between systems.

Table 2-7 Guided Navigation Steps to View Connector Details

Step	Field Description
Add Connector Details	Users begin by entering the following key details about the connector:  Connector Name Description Target Catalog Target Entity Name Source Catalog Primary Source Entity Upload Connector Data File: Users upload the relevant connector data file to integrate the source and target catalogs.
Map Key Business Terms	Users map key business terms by: • Selecting Target Business Terms • Choosing the Source Business Term from a dropdown menu
Direct Mapping	<ul> <li>A smart search to find terms by target or source business terms and entities</li> <li>A button to add new mappings</li> <li>A button for Auto-Map to automate mapping</li> <li>A checkbox for Show Unmapped Business Terms</li> <li>A checkbox for Show Mapped Business Terms         <ul> <li>The main screen displays three key columns:</li> <li>Target Catalog Business Terms</li> <li>Source Entity – Allows the user to select a source entity from the dropdown list.</li> </ul> </li> </ul>
	<ul> <li>Source Business Term – Allows the user to select a source business term (BT) from the dropdown list.</li> </ul>

# Catalog Extension

With Catalog Extension, you can extend the seeded Catalog data model to support new or client-specific business use cases. You can create new entity definitions or customize the existing entity definitions based on the use case.



#### (i) Note

The execution of the Run Pipeline is triggered using the selected Extraction Date.

Table 3-1 Enabled Data Model Extensions in Catalog

Catalog Object Type	Create	Modify	Extend	Delete
Business Term	Yes	No	No	No
Dimension Entity	Yes	No	Yes	No
Fact Entity	Yes	Yes	Yes	No
Data Quality Framework	Yes	Yes	Yes	No

All the points mentioned above are applicable to both Seeded and Custom Objects

- New Business Terms added to fact entities can be dimension references, measures, flag or indicators and alphanumeric attributes without dimensional reference.
- Fact logical entities that are allowed for extensions are product processors, account transactions, accounting entries, Accounting Entries Header and Transaction Header.
- Extensions are allowed to logical entities and physical model modification is controlled by the service.
- Required data flow for the extended entities are auto generated by the system.
- Completes basic data quality checks required for extended entities.

You must identify the additional data requirements to implement in the application through system and business use case analysis. Data model gaps need to be captured in Issues and Action governance framework.

Data model extensions must be designed based on the guidelines provided for each area.

Catalog Result layer is designed as a Star Schema for better performance of Analytical and Reporting gueries. Hence it is highly recommended that Dimensional Entities must be created for a pre-defined list of values before adding to the Fact Entities. Adding of alphanumeric attributes for Fact Entities must be avoided wherever possible.

## 3.1 Catalog Extension - Core

The catalog extension process workflow is as follows:





#### Analyze

- Analyze the requirements based on the existing details in Data Catalog.
- Use the Catalog Viewer to understand existing Business Terms, logical entities and their properties.

#### Review

- Prepare the list of Gaps additional business terms, dimensions, fact extensions and other associated properties.
- Document the list of Gaps group based on type and purpose of extensions.
- Review the list of Gaps to ensure if the proposed additions are consistent and conformance according to the Data Catalog Extension Principles and Naming Standards.

#### Document

- An Issue Administrator will Log an Issue (Category as Catalog Extensions) based on the purpose of the extension. To know how to log an Issue, see the <u>Issues and Actions</u> section.
- Document the details of the extension requirements in the Issue. Upload the analysis and requirement documents.
- Assign to the Issue Owner.

#### Action

- Issue Owners create Action (Type as Catalog Extension) for the issue. It is recommended to define an action for each type of change. To learn how to create an Action, see the Issues and Actions section.
- Upload the document containing the list of changes in Action details.
- Action Owners create or extend the catalog objects based on the type of Change Request.
- Action Owners submits the action for approval.

#### Publish

- Issue Owner reviews submitted actions and approves or rejects along with appropriate comments.
- After approval no modification is allowed to object definitions.
- Issue Administrator publishes the approved Action to approve the changes in the Catalog data model.
- Actions need to be published sequentially and in the logical sequence that would be reflected in schema. To use a Custom BT in a new Dimension Entity or while Extending the Fact, first create and publish the Business Term. Once the BT is published, it will be available in the list of Available Business Terms during creation of Dimension Entity and while extending a Fact.



- You can verify the published Actions from Catalog Viewer for Dimension Entity and Extend Fact Entity.
- Please note that extensions will be reflected in master repository of objects only on Publish and it is mandatory to publish before users can view or consume the object for further extensions.
- If a Publish action is successful, the action is displayed under Publish tab. If a Publish action is unsuccessful, the action is displayed under Approved tab.

- \* To publish an action, the custom DQ rule must be mapped to at least to one group. A custom rule which is not mapped to any group will not be published.
- \* Similarly, to publish an action, the custom DQ group must be mapped to at least one rule. A custom DQ group with no DQs mapped to it will not be published.

### 3.1.1 Create Business Terms

Based on the Action created, follow the steps below to create a Business Term.

To create a custom Business Term for an Action, do the following:

- Go to the Inbox by clicking the Inbox button on the Home page
   The Inbox page is displayed.
- 2. To create a custom Business Term for an Action, do the following:
  - Select the required Action for which you need to create a custom Business Term.
     The Action Details Page is displayed.
  - b. On the Extension tab, click Create Business Term.
    - The **New Business Term** page is displayed.
  - c. On the **Definition** tab, set the following values.



### Table 3-2 Business Terms Field Names and Description on the Definition Tab

Field Name	Description
Business Term Logical Name	Type a unique name for the Business Term. By default, the logical name will be appended with the Affix Type which is Prefix and the Affix Value for this prefix is "Custom " with a space in the last before beginning the Business Term. For Example: Custom BusinessTerm1  Type a unique name for the Business Term Logical Name.  The Business Term needs to be long and meaningful. Short meaningless Abbreviations cannot be used.  The Business Term must always be in Camel case.  Logical names must have A to Z and 0 to 9 characters only  The Business Term can consist of alphanumeric without special characters. Maximum allowed length is 150 characters. A single space can be used as a Delimiter to separate the words.  Note  You should not create two Business Terms with the same logical name in different cases. For Example: Business Term1 and business term1.
Classification	Select one of the following categories for the Business Term:  Date and Timestamp  Flag or Indicator  List of Values  Monetary Amount  Numerical Non-Monetary  Text Description  Identifiers



Table 3-2 (Cont.) Business Terms Field Names and Description on the Definition Tab

Field Name	Description	
Logical Data Type	Select the required Logical Data Type that defines the Data Type and Length of the Business Term. For more information, see the Logical Data Type and Data Length Table.	
	<ul> <li>Note</li> <li>If you want to configure the List of Values, select the Logical Data Type from the following list: <ul> <li>Flag</li> <li>Indicator</li> <li>Code_Alphanumeric</li> <li>Code_Alphanumeric_Long</li> <li>Code_Numeric</li> </ul> </li> </ul>	
	(i) Note  It is recommended to not have more than 10 distinct LOVs (List of Values) for lov codes definition. If the number of distinct LOVs exceeds 10, it is advisable to create a new custom dimension.	
Personally Identifiable Information	Select if the Business Term is personal information. The value can be a Yes or No (Enable the Toggle Switch for Yes and disable for No).	
	(i) Note  All the PII attributes created by the User is enabled for data masking while creating a cloned environment in the system.	
Add	Click this button to add this Business Term in the Glossary List	
Glossary Name	It is auto-populated based on the logical name of the Business Term.	
Glossary Context	It is auto-populated with a pre-defined value (FSDF).	
Business Term Description	Double-click on the blank space corresponding to this field and type a proper Description for the Business Term:  It must be a complete sentence with possible indication of data domain and list of values it contains along with business context.  Business term description shall be without special characters. Maximum allowed length is 4000 characters.	
Delete	To delete a Glossary item, select the Glossary and click <b>Delete</b> .	

### **Logical Data Type and Data Length**

This section provides the list of the logical data type and its data length.



Table 3-3 Logical Data Type and Data Length

Logical Data Type	Data Length
Amount	NUMBER(22,3)
Amount_Long	NUMBER(38,6)
Amount_Medium	NUMBER(30,11)
Code_Alphanumeric	VARCHAR2(20)
Code_Alphanumeric_Long	VARCHAR2(60)
Code_Numeric	NUMBER(14)
Currency	VARCHAR2(3)
Date	DATE
Description_Short	VARCHAR2(100)
Description_Medium	VARCHAR2(1000)
Description_Long	VARCHAR2(4000)
Description	VARCHAR2(255)
Flag	CHAR(1)
Indicator	VARCHAR2(1)
Number_Factor	NUMBER(10,6)
Number_Factor_Long	NUMBER(38,15)
Numeric	NUMBER(10)
Numeric_Long	NUMBER(30)
Rate_Percent	NUMBER(11,6)
Rate_Percent_Medium	NUMBER(15,11)
Rate_Percent_Long	NUMBER(30,11)
SurrogateKey	NUMBER(10)
SurrogateKey_Long	NUMBER(15)
Amount_Currency	NUMBER(22,3)
Amount_Currency_Long	NUMBER(38,6)
Amount_Currency_Date	NUMBER(22,3)
Amount_Currency_Date_Long	NUMBER(38,6)

d. On the **Relationships** Tab, set the following values.

Table 3-4 Business Terms Field Names and Description on the Relationships Tab

Field Name	Description
Add	Click this button to add the Business Term in the Glossary List.
Group Code	Enter an identifier that represents that one Business Term is related to another Business Term. Group Code shall be alphanumeric with maximum 10 characters in length.
	An existing group code can be mentioned if the new relationship falls into existing group.
Relationship Type	Enter the relationship type that occurs between Business Terms. For more information, see the Related Business Terms.
Related Business Term	Double-click on the blank space corresponding to this field and type a proper Description.
Delete	To delete a Relationship item, select the Relationship and click <b>Delete</b> .



e. On the **List of Values** Tab, click **Add** and set the following values.

#### (i) Note

The Add or Delete options in List of Values tab is enabled only for the Custom Business Terms for the following Data types:

- Flag
- Indicator
- Code Alphanumeric
- Code\_Alphanumeric\_Long
- Code\_Numeric

Table 3-5 Business Terms Field Names and Description on the List of Values Tab

Field Name	Description
Code	Enter the code for the LOV. For Example: Y. This is limited to one character and only alphanumeric character is supported and should be unique. The code is case sensitive.
Display Name	Enter the display name for the LOV.
Description	Enter the description for the LOV.

Following are the current behavior of LOV:

- The Business Term with Logical Data Type as Flag, Indicator, Code\_Alphanumeric, Code\_Alphanumeric\_Long and Code\_Numeric are allowed to have associated LOV. For other BT types, it is recommended to create a Dimension.
- LOV definition will capture Code, Display Name, and Description.
- The LOV should match the data type and data length of the Business Term.
- The Business Term follows the existing governance validations. For example: You cannot modify after the approval, only Action owner is allowed to modify, and so on. For more details, see the Approval workflow of Issues and Actions section.

Based on the list of values configured for a given custom business terms, the system auto generates data quality rules for the associated entities.

Click Save.

#### (i) Note

When you create an Action for the first time and wish to extend the catalog, during a Business Term or a Dimension Entity creation, the following warning is displayed:

"Please ensure that the affix details are configured. Click **Yes** to proceed with saving the Business Term/Dimension"

A confirmation message is displayed. Click **OK**.



- On the Extension Tab, in the Business Term Extensions Section, the new Business Terms are listed.
- Click **Submit** to submit the Action for approval.

A confirmation message is displayed.

Click Yes to confirm.

Your confirmation is acknowledged.

#### Note

Once a Business Term has been Approved or Published, it cannot be modified or removed from the Extension. The properties of an existing Out-of-box Business terms cannot be modified, but any new custom Business Terms which are in only **Draft** status can be modified

#### (i) Note

If you create any custom Business Term and want to use the same in any of the custom Dimension or in extending a Fact entity, the Business Term alone must be initially published.

- To update a draft Business Term for an Action, do the following:
  - Click the required Action for which you need to update a Business Term. The Action Details Page is displayed.
  - b. On the **Extension** Tab, click the Business Term that you need to update.

The Business Term Details Page is displayed.

- You can update any Field and Click Save.
  - A confirmation message is displayed. Click OK to confirm.
- On the Extension Tab, in the Business Term Extensions Section, the new Business Terms are listed. Click outside the Action Details Page to close it.

For information about Approval of Action (for Business Term), see the Approval workflow of Issues and Actions section.

### 3.1.2 Extend Business Terms

To extend a Business Term for an Action, do the following:

- Go to the **Inbox** by clicking the **Inbox** button on the home page.
  - The **Inbox** page is displayed.
- To extend a Business Term for an Action, do the following:
  - Select the required Action for which you need to extend a Business Term. The Action Details page is displayed.
  - b. On the Extension tab, click Extend Business Term. The Extend Business Term page is displayed.
  - c. Set the following values:



Table 3-6 Business Term Field Names and Description

Field Name	Description
Available Business Terms	Based on the Logical Data Type selected during Business Term creation, select the required Business Term.
Add	Click this button to add the LOV code, name, and description.
Delete	Click this button to remove the LOV data.
LOV table	If List of Values are existing, those are displayed in the table.

#### Following are the current behavior of LOV:

- You can add LOV for an existing custom Business Terms for the Data Types Flag, Indicator, Code\_Alphanumeric, Code\_Alphanumeric\_Long, and Code\_Numeric.
- LOV definition will capture Code, Display Name, and Description.
- The LOV should match the data type and data length of the Business Term.
- The published LOV code cannot be removed or modified.
- You can modify the display name and description for existing LOV values.
- The Business Term follows the existing governance validations. For more details, see the Approval workflow of Issues and Actions section.

Table 3-7 Business Terms Field Names and Description on the Relationships Tab

Field Name	Description
Add	Click this button to add the Relationship for Business Term.
Group Code	Enter an identifier that represents that one Business Term is related to another Business Term.
	Group Code shall be alphanumeric with maximum 10 characters in length.
	An existing group code can be mentioned if the new relationship falls into existing group.
Relationship Type	Select the relationship type that occurs between Business Terms from the drop down. For more information, see the Related Business Terms.
Related Business Term	Select the related business term from the drop down.
Delete	To delete a Relationship item, select the Relationship and click <b>Delete</b> .

#### (i) Note

- Users can now add relationships to the Custom Business Terms as well as Out-of-the-Box Business terms.
- Users cannot add multiple relationships of same type for a Business Term.
- For an Out-of-the-Box BT, users can only add the Measure GL relationship and the Business Term must be a numerical Data type.
- d. Click **Save**. A confirmation message is displayed.



- e. Click OK.
- f. On the Extension tab, in the Entity Extensions section, the new extended Business Term is listed.

Once an extended Dimension Entity has been Approved, the extension request cannot be modified.

- 3. If you want to update a draft Entity for an Action, do the following:
  - a. Click the required Action for which you need to update a Dimension Entity. The Action Details Page is displayed.
  - b. On the Extension tab, click the Extend Dimension Entity that you need to update which is in Draft status.
  - **c.** The **Entity Details** page is displayed. You can update the existing values in the available fields.
  - d. Click Save. A confirmation message is displayed.
  - e. Click OK.
  - f. On the Extension tab, in the Entity Extensions section, the new extended Dimension Entities are listed. Click outside the Action Details page to close it.
  - Only sourced or custom dimensions (Not seeded) can be extended.
  - Once the publish action is complete, the Dimensions will be added with new attributes and also their corresponding SCDs will be modified.
  - Also if the added attribute has a DQ associated with it, it will be added to the DQ Group.
  - You can view the modified changes to the Dimension using Data Catalog.

### 3.1.3 Manage Dimension Entity

Based on the Action created, follow the steps below to create a Dimension Entity.

### 3.1.3.1 Create a Dimension Entity

To create a Dimension Entity for an Action, do the following:

- 1. Go to the **Inbox** by clicking the **Inbox** button on the home page.
  - The **Inbox** page is displayed.
- To create an Entity for an Action, do the following:
  - a. Select the required Action for which you need to create a Dimension. The Action Details page is displayed.
  - b. On the Extension tab, click Create Dimension. The Create Dimension Entity page is displayed.
  - c. On the **Definition** tab, set the following values.



Table 3-8 Dimension Entity Field Names and Description on the Definition Tab

Field Name	Description
Entity Name	Type a unique name for the Entity. The name should start with the word <b>Local</b> with a space in the last before beginning the entity name. For Example: Custom Entity1
	<ul> <li>Entity logical name must be in Camel case.</li> </ul>
	<ul> <li>It must have A to Z and 0 to 9 characters only.</li> <li>It must be alphanumeric with maximum length 120 characters.</li> </ul>
	Note  You should not create two Entity names with the
	same logical name in different cases. For Example: Custom ENTITY1 and Custom entity1.
Entity Description	Enter a description for the Entity.
	Note  New line character (Enter key) should not be used in the Entity Description field.
	<ul> <li>It must be a complete sentence with possible indication of data domain and list of values it contains along with business context.</li> </ul>
	<ul> <li>It must be alphanumeric with maximum length 4000 characters.</li> </ul>
Is data sourced to this entity from an external system	Select if the Dimension Entity has data sourced from external system. The value can be a Yes or No (Enable the Toggle Switch for Yes and disable for No). It is recommended to always enable this switch to source data from external systems as seeded dimension data flow is not supported.
Should this Entity contain hierarchical data	Select if the Dimension Entity contains hierarchical data. The value can be a Yes or No (Enable the Toggle Switch for Yes and disable for No).  Keep this switch enabled if not absolutely sure if the new dimension will not contain hierarchical data as modification to published dimensions are not supported and required physical structure and data flow for hierarchical data cannot be enabled later.



#### (Cont.) Dimension Entity Field Names and Description on the Definition Tab Table 3-8

#### **Field Name**

Available Business Terms

#### Description

Based on the Logical Data Type selected during Business Term creation, select the required Business Term to be added to the Dimension entity.

#### (i) Note

You must add a minimum of two business terms such that at least one is a business key (i.e., natural key of the dimension) with an alphanumeric code column, and one is a numerical identifier (its unique numerical value for the corresponding business key).

#### (i) Note

An error is displayed if you are trying to create multiple dimensions with the same business terms as the business key. If role-based dimensions are required, then it is recommended to create separate business terms for each role and use them as a business key in dimensions. For Example: Issuer, Guarantor.

- A Business Term is displayed in the Business Terms selection column only after it is published. You can then add the relevant Business Term while creating the Dimension Entity.
- Add only slowly changing attributes to dimension entity, don't add numerical measures, surrogate key(s).
- Only add functional business terms, standard technical business terms required for a dimension entity e.g. Start Date, End Date, Latest Record Indicator, surrogate key, and Closed Flag will be added by extension service by default.
- The Business Term 'Record Creation Date' should not be used for custom extensions.
- Flag the BTs which are nullable, by default all new additions and Not Null.
- Avoid adding alphanumeric business terms to fact entity(s) which does not have an associated dimension.
- The Dimension retire parameter should not be set for custom dimensions.
- Business Terms with logical data types SurrogateKey\_Long, Numeric and Code\_Numeric are mapped as Numeric Identifiers.

It is recommended to add a Business Term with logical name that contains the key word name, which defines the business key of the dimension. This will be used to define the child name in hierarchical data.

Add Attribute

Click this button to add the Attribute (Business Term) in the Business Terms List.



Table 3-8 (Cont.) Dimension Entity Field Names and Description on the Definition Tab

Field Name	Description
Remove Attribute	Click this button to remove the Attribute (Business Term) from the Business Terms List.

- Click Save. A confirmation message is displayed. Click OK. On the Extension tab, in the **Entity Extensions** section, the new Dimension Entity is listed.
  - Logical dimension entity definition creates all the required physical structures. The Data flow (SCD) is created by the extension service along with entity definition. You must create a pipeline to add the SCDs created by the extension service.
  - When the Hierarchical data toggle button is enabled, a data Flow (Connector) is created by the extension service along with Stage Hierarchy and Dimension Hierarchy. You must create a pipeline to add the Connectors created by the extension service.
  - Create a new pipeline and the Data Quality group created for new entity (if any). A single pipeline can be created to add all the newly created Data Quality groups for catalog extensions.



Once a Dimension Entity has been Approved it cannot be modified or removed from the Extension. Once a Dimension Entity has been Approved it cannot be modified or removed from the Extension.

- If you want to update a draft Entity for an Action, do the following:
  - a. Click the required Action for which you need to update a Dimension Entity. The **Action Details** page is displayed.
  - b. On the Extension tab, click the Dimension Entity that you need to update which is in **Draft** Status.
  - c. The Entity Details page is displayed. You can update any Field.
  - Click Save. A confirmation message is displayed. Click OK. On the Extension tab, in the **Entity Extensions** section, the new Dimension Entities are listed. Click outside the Action Details page to close it.

### 3.1.3.2 Extend Dimension Entity

To extend a Dimension Entity for an Action, do the following:

- Go to the **Inbox** by clicking the **Inbox** button on the home page. The **Inbox** page is 1. displayed.
- To extend an Entity for an Action, do the following:
  - Select the required Action for which you need to extend a Dimension. The Action Details page is displayed.
  - b. On the Extension tab, click Extend Dimension. The Extend Dimension Entity page is displayed.
  - On the **Definition** tab, set the following values.



Table 3-9 Dimension Entity Field Names and Description on the Definition Tab

Field Name	Description
Dimension	Select the appropriate dimension from the drop-down list.
Available Business Terms	Based on the Logical Data Type selected during Business Term creation, select the required Business Term to be added to the Dimension entity.  The Business Term 'Record Creation Date' should not be used for custom extensions.
	① Note
	You must not extend a Dimension or a Fact table with a Business Term of Data Type 'TimeStamp".
Selected Business Terms	<ul> <li>This field displays the selected business terms for the extended dimension entity.</li> <li>You must add a minimum of one business term.</li> <li>The default value cannot be empty when</li> </ul>
	<ul><li>nullable is disabled.</li><li>The maximum size allowed for the default value is 10.</li></ul>
Add Attribute	Click this button to add the Attribute (Business Term) in the Business Terms List.
	(i) Note
	You cannot add an Amount column as an attribute in the dimension.
Remove Attribute	Click this button to remove the Attribute (Business Term) from the Business Terms List.

- d. Click Save. A confirmation message is displayed. Click OK.
- **e.** On the **Extension** tab, in the **Entity Extensions** Section, the new extended Dimension Entity is listed.

Once an extended Dimension Entity has been Approved, the extension request cannot be modified.

- 3. If you want to update a draft Entity for an Action, do the following:
  - Click the required Action for which you need to update a Dimension Entity. The Action Details page is displayed.



- On the **Extension** tab, click the Extend Dimension Entity that you need to update which is in **Draft** status.
- The Entity Details page is displayed. You can update the existing values in the available fields.
- Click Save. A confirmation message is displayed. Click OK. On the Extension tab, in the Entity Extensions section, the new extended Dimension Entities are listed. Click outside the Action Details page to close it.
- The seeded dimensions can be extended by only custom Business Terms and custom dimensions can be extended by seeded as well as custom Business Terms.
- Once the publish action is complete, the Dimensions will be added with new attributes and also their corresponding SCDs will be modified.
- Also if the added attribute has a DQ associated with it, it will be added to the DQ Group.

# 3.1.4 Manage Fact Entity

Based on the Action created, follow the steps below to create a Custom Fact Entity.

### 3.1.4.1 Custom Fact Entity

A Custom Fact Entity is a tailored data structure designed to store specific factual information within a data system. It serves as a powerful tool for analysis and reporting, enabling you to enhance the data models by integrating customized facts that address unique business needs.

This section outlines the process of creating a custom fact entity, including the necessary validations, attribute selection, and business key configuration.



### (i) Note

Create Fact component must be standalone limited to a single Fact entity creation and must not be combined with any other Catalog Extension component(s) in the same action.

### Steps to Create a Custom Fact Entity

- Log in to the OFSAA DFCS portal.
- Click on the **Inbox** icon. The **Inbox** window is displayed.
- Click on **Log Issue** icon. The **Create Issue** window appears.
- In the Create Issue window, enter the following:

Table 3-10 Create Issue

Field	Description
Name	Provide a clear, concise name for the issue. This could be a title or identifier.
Description	Fill in any necessary details about the issue, explaining what is wrong or needs to be addressed.



Table 3-10 (Cont.) Create Issue

Field	Description
Category	Choose the relevant category from the dropdown menu (e.g., Catalog Extension).
Criticality	Determine the urgency or importance of the issue (e.g., "Medium").
Execution Date	Pick the date when this issue should be executed or resolved, using the calendar picker.
Source	Specify where the issue is coming from (e.g., "Key Indicators").
Owner	Choose the team responsible for addressing the issue.
Target Date	Optionally, add any extra comments or context.
Comments (Optional notes or updates)	Choose the target date for completing the issue, using the calendar.
Attach Documents (Optional upload)	If necessary, upload any relevant documents that provide context or detail about the issue.

- 5. Click **Save** to create the issue.
- 6. From the inbox window, select the Log Issue from the list, and select **Actions** > **Create**.

7.

8. In the **New Action** window, enter the following details and click **Save**.

**Table 3-11 Entity Description** 

Field	Description
Entity Name	Enter the Entity name. Ensure the following are considered.  Must start with capital letter  No special characters allowed  Maximum 120 characters  Must be unique (no duplicates)  Must conform to prefix/suffix requirement
	Must be in CamelCase.
Entity Description	Enter the description. Maximum 4000 characters Newlines, double quotes, slashes characters are not allowed



### Table 3-11 (Cont.) Entity Description

#### Field Description

### **Business Terms** Selection

System will display available Business Terms (BTs).



### (i) Note

By default, the As Of Date (Nullable) and Data Source Code (Business Key) BT attributes will be added.

b. Select relevant BTs for your fact entity.



At least one business key attribute must be enabled for fact entity creation. The Business key is the functional key of the selected

#### Save Attribute

Click Save.

The Entity and Attributes is saved to the logical tables.

Click Submit to save the data and update status on DC\_CR object tables.



The Load Run Identifier is not mandated.

### Validation & Submission

- Click Validate Data to check all fields are updated.
- Review the confirmation prompt: Do you want to submit BT/Entities for Create Fact Entity?
- Click Yes to proceed, else click No to modify the fields.



Please ensure that the affix details are configured before proceeding.

### Post-Submission

System will display confirmation:

All BT/Entities have been submitted successfully for approval.

The request will be tracked in the console.

- Click Approve, the Create Fact Entity Add Comment window appears
- Enter the reason for approval and click **Save**. A confirmation message appears.



### Table 3-11 (Cont.) Entity Description

#### Field Description

Approval Workflow

Navigate to: Legal Entity > Publish Change Request. Approvers will review the submission, once approved, the fact entity becomes available for use.



### (i) Note

Hover over the Custom Fact Entity to view the details that is

b. Click Publish.

### (i) Note

Troubleshooting Errors:

- Entity Name invalid Verify naming rules.
- **Business Terms not available** Check if terms were already assigned.
- System timeout Session expires after inactivity.

### (i) Note

The Custom Fact Entity created is defined under Extend Fact Entity > Null Grain > Other category. The existing published entities is listed in the Other category. For more information, see Extend Fact Entity.

### 3.1.4.2 Extend Fact Entity

Based on the Action created, follow the steps below to create an Extend Fact Entity.

To Extend Fact Entity for an Action, do the following:

- Go to the Inbox by clicking the Inbox button on the home page. The Inbox page is displayed.
- To Extend Fact Entity for an Action, do the following:
  - Select the required Action for which you need to Extend Fact Entity. The Action details page is displayed.
  - b. On the **Extension** tab, click **Extend Fact**. The Extend Fact Entity page is displayed.
  - On the **Definition** tab, set the following values.



Table 3-12 Extend Fact Field Names and Description on the Definition Tab

Field Name	Description	
Grain/Grain Group	Select one of the following categories for the Entity:	
Include Entities	Select an Entity from the list of available entities.  i Note	
	The list of unsupported entities for extension are Dimension, Stage Master and Stage Hierarchy Tables.	
Add Entity	Click this button to add this Entity in the Entities List.	
Remove Entity	Select the entity, and click this button to remove an entity from the added list of Entities.	
Available Business Terms	<ul> <li>Select one or more Business Terms to the Fact Entity:</li> <li>Nullable: If a Business Term has Null value or not</li> <li>Default Value: The Default value for the Business Term</li> <li>Reference Entity: The list of dimensions for which Business Terms is a Business Key.</li> </ul>	
	① Note	
	If you disable the Nullable option for an added Business Term, then it is mandatory to add a default value for the same business term.	
	<ul> <li>Verify the Business Terms that are not already part of the entity(s) to be extended.</li> </ul>	
	<ul> <li>Mark the business terms as "Not Null" only when it is absolutely essential.</li> </ul>	
	<ul> <li>In case of a BT marked as not null, system mandates to provide a default value as per the data type and data length of BT definition.</li> </ul>	

- length of BT definition.
- Avoid adding alphanumeric business terms to fact entity(s) which does not have an associated dimension.
- The Business Term 'Record Creation Date' should not be used for custom extensions.
- The system populates the dimension list referenced by a Business Term and allows you to select the referenced dimension entity in case of multiple references. In case of single reference entity, the reference entity is auto-populated.



You must not extend a Dimension or a Fact table with a Business Term of Data Type "TimeStamp".



Table 3-12 (Cont.) Extend Fact Field Names and Description on the Definition Tab

Field Name	Description
Add Attribute	Click this button to add this Attribute in the Business Terms List.
Remove Attribute	Click this button to remove an attribute from the added list of Business Terms.

- Click Save. A confirmation message is displayed.
- e. Click OK.
- f. On the Extension tab, in the Entity Extensions section, the new Fact Entity is listed. You must select the appropriate grain or group for the entities to be extended and verify if the Business Terms are not already part of the entity(s) to be extended. The Best practice is to add a referenced dimension before adding an alphanumeric Business Terms to the fact entities. You must limit the number of extensions to 100 Business Terms for each Fact Entity. You can create the Data Quality pipeline for the extension generated Data Quality checks for the extended entity.

### (i) Note

When an Out-of-the-Box fact entity is selected, only custom business terms are displayed.

- 3. If you want to update a draft Extend Fact Entity for an Action, do the following:
  - a. Click the required Action for which you need to update an Extend Fact Entity. The Action Details page is displayed.
  - b. On the Extension tab, click the Extend Fact Entity that you need to update.
  - c. The Entity Details page is displayed. You can update any Field.
  - d. Click Save. A confirmation message is displayed.
  - e. Click OK.
  - f. On the Extension tab, in the Entity Extensions section, the new Extend Fact Entities are listed.
  - g. Click outside the Action Details page to close it.

# 3.2 Publish Change Request

Approved change requests for Catalog extensions must be published by Administrators to persist the extensions and generate associated configuration.

# 3.2.1 Publish Change Request Process Workflow

Publish change request process spans across multiple components involving automation of complex configurations as explained below:



Figure 3-2 Publish Change Request Process Workflow



### Model Upload

- The Data catalog extension generates a model artifact in the Object store.
- The Physicalization of the above model and the object registration will be performed in the system.

### Slowly Changing Dimensions Publish

 The Slowly Changing Dimensions (SCD) definition of new entities that are part of the model are registered with the system.

### Data Quality Publish

 The Data Quality definition of new entities that are part of the model are registered with the system.

#### Data Redaction for GDPR

 Any PII attribute part of the Data catalog extension model is implicitly eligible for the redaction which safeguards the data against any unauthorized access and the data theft.

### Connector Metadata Refresh (ADI Refresh)

- This reads the data catalog extension model uploaded in the system and creates ADIs.
- This is a mandatory activity for any model change.

#### (i) Note

Steps are automated and internal while triggering publish process.

# 3.2.2 System Restrictions during Publish Change Request Operations

This section provides information on the operations that can be performed and the system restrictions during a Publish Change Request.

### 3.2.2.1 Operations which can be performed during Publish Change Request

The following activities are allowed by the system during a Publish Change Request operation.

- Browse Data Catalog
- Balance Reconciliation
- Catalog Extension
- Issues and Actions
- Upload and Download files



- Legal Entity
- Report Analysis
- Access Data Visualization
- System Administration creating users and modifying user access

# 3.2.2.2 Operations which cannot be performed during Publish Change Request

The following activities are restricted by the system during a Publish Change Request operation.

- Data Ingestion Connector creation or modification or copy
- Data Extraction
- Process Pipeline Executions

# 3.3 Publish an Action

To publish an Action, do the following:

- 1. Go to My Profile by clicking the My Profile button on the home page.
- 2. Select **Administration**. The Administration page is displayed.
- Navigate to the Publish Change Request tab. The list of Actions in Approved status is displayed.
- 4. To publish an Action, do the following:
  - a. Select the required Action and click Publish.

A confirmation message is displayed. Click **OK** to acknowledge the message.

b. To view the list of Fail to publish actions, click the Approved button. The list of actions to be published are displayed.

### (i) Note

If a Publish action is unsuccessful, the action is displayed under **Approved** button. You can publish this action again or contact <u>My Oracle Support (MOS)</u> for further assistance.

**c.** To view the list of ongoing publish operations, click the **Ongoing** button. The list of ongoing publish operations is displayed.



### ① Note

The publish operation might take up to 2 hours to complete and the User can navigate out of the User Interface and comeback later to check the status of the event. If the publish operation is still **Ongoing** after 2 hours, contact My Oracle Support (MOS) for further assistance.

Publish action cannot be performed during an ongoing Process Pipeline execution. The user can perform the Publish action once all the PMF executions are complete.

Similarly, Process Pipeline execution should not be performed during an ongoing Publish operation of a Change Request. If a process is triggered during an ongoing Publish, the process will be cancelled automatically, and the status is displayed as **CANCELLED** in the Process Monitor Summary page with an error message **Auto-cancellation could be due to Catalog Publish running in parallel**.

d. To view the list of published actions, click the **Published** button. The list of published actions is displayed.

After a Publish action is successful, the User can perform Data Ingestion, view the Catalog Framework and Design pipeline.

# 3.4 Catalog Extension – Application Data Services

For more information, please refer to <u>Oracle® Financial Services Data Foundation Cloud</u> Service for Banking Data Services Guide.

# Issues and Actions

In Issues and Actions, the following tasks can typically be performed:

- Catalog Extension
- Data Privacy
- Data Security
- Data Authorization
- Data Availability
- Data Accuracy
- Data Entry

The Issues and Actions feature enables users to address and resolve data-related issues within the cloud framework. These issues may include Data Quality, Privacy, Security, Availability, Accuracy, and Adjustments. Additionally, users can perform Catalog Extensions, such as creating and extending Business Terms, extending Fact Entities, and Dimension Entities.

# 4.1 Issues

On the **Inbox** Page, you can log an Issue and create a set of Actions for that Issue. Users can select the appropriate **Action Type** based on the requirement. For instructions to log or manage an Issue, see the <u>Manage an Issue</u> section in the <u>Tracking and Work flow</u> section.

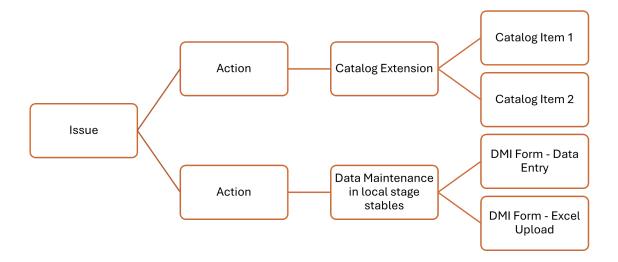
# 4.2 Actions

After logging an issue, you can define a set of actions for it on the **Inbox** page. As part of an action, you have the option to create a Business Term. For detailed instructions on logging or managing an action, refer to the <u>Manage an Issue</u> section in the <u>Tracking and Workflow</u> section.

# 4.3 Tracking and Work flow

The Inbox page displays all user tasks, including Issues and Actions. Issues can be logged manually, initiated by a Governance Process, or reassigned from another user. Actions, which are remedial tasks to resolve an issue, can involve various processes such as adjustments, catalog extensions, direct data entry into stage tables via DMI, and Data Quality name creation. The Notification tab provides an overview of the latest tasks assigned to the user.

Figure 4-1 Tracking and Work flow



# 4.3.1 Manage an Issue

This section outlines how to create, update, close, reopen, or delete an issue within the system.

# 4.3.2 Create or Log an Issue

To create an Issue, perform the following steps:

- **1.** Navigate to the Inbox by clicking **Inbox** on the home page.
  - The Inbox page is displayed.
- 2. On the Inbox page, click Log Issue.
  - The Create Issue page is displayed.
- 3. Set the following values.

Table 4-1 Issues Field Names and Description

Field Name	Description
Name	Type a unique name.
Description	Type a description.



Table 4-1 (Cont.) Issues Field Names and Description

Field Name	Description
Category	Select the required Category: Data Authorization Data Privacy Data Security Data Accuracy Data Availability Timeliness Catalog Extension: Use this if you want to extend the out-of-the-box Data Structure.
Criticality	Set the criticality level for the Issue as:     Low     Medium     High
Target Date	Select the date till when you need this Issue to be active.
Execution Date	Select the date for executing this Issue.
Source	Select a source for the Issue:  Controls: Defines the operational and quality controls on every data element and monitors the effectiveness of the control.
	<ul> <li>Key Indicators: Monitors all the key metrics, trends of the metrics, variances, and so on, for the data elements.</li> </ul>
	<ul> <li>Catalog: To create the Business Term that comprises of elements supporting the business needs of the financial industry.</li> </ul>
Owner	Select the required owner for the Issue.
Comments	Add comments for the Issue, if required.
Attach Documents	Use this to attach documents relevant for this Issue. The file format can be of type: .xls, .pdf, .txt or .doc.

### 4. Click Save.

A confirmation message is displayed.

Acknowledge the confirmation message. The new Issue is listed on the Inbox page marked with New status along with its details.

# 4.3.3 Update an Issue

To update an existing Issue, perform the following steps:

- 1. Navigate to the Inbox by clicking **Inbox** on the home page.
  - The Inbox page is displayed.
- 2. On the **Inbox** page, click the required Issue.

The Issue Details page is displayed.



- You can edit the Description, Category, Criticality, Target Date, Owner, Comments, and Attach Documents fields.
- Click Update.

A confirmation message is displayed. Acknowledge the confirmation message.

### 4.3.4 Close an Issue

To close an existing Issue, perform the following steps:

1. On the **Inbox** page, click the required Issue.

The Issue Details page is displayed.

Click Close.

A confirmation message is displayed.

To close the Issue, click **Yes**.

A confirmation message is displayed. Acknowledge the message.

# 4.3.5 Reopen an Issue

To reopen a closed issue, follow these steps:

Navigate to the **Inbox** page and select the closed issue you wish to reopen.

The Issue Details page will be displayed.

2. Click the **Re-open** button.

A confirmation message will appear.

To confirm and reopen the issue, click **Yes**.

Another confirmation message will be displayed. Acknowledge the confirmation message to complete the process.

### 4.3.6 Delete an Issue

To delete an Issue, perform the following steps:

- On the **Inbox** page, select the required **Issue**.
- Click Delete.

A confirmation message is displayed.



#### (i) Note

Ensure that you close all the Actions associated with the Issue and then close the Issue.

To delete the Issue, click Yes.

A confirmation message is displayed. Acknowledge the confirmation message.

Alternatively, to re-open, close, delete an Issue, on the **Inbox** page, select the required Issue, click the menu associated with the Issue, and select Re-open or Close or Delete respectively, and follow further instructions as mentioned in the preceding sections.



# 4.3.7 Manage an Action

This section outlines how to create, update, close, reopen, or delete an action.

### 4.3.8 Create an Action

To create an Action, perform the following steps:

- Navigate to the Inbox by clicking the Inbox button on the home page.
   The Inbox page is displayed.
- On the Inbox page, select the required Issue for which you need to create an Action.The Issue Details page is displayed.
- 3. On the **Actions** tab, click **Create**.
- 4. Set the following values.

Table 4-2 Actions Field Names and Description

Field Name	Description
Action Type	Select the required Action Type:  Data Adjustments - DQ Errors  Data Adjustments - Others  Data Adjustments - Regulatory Reporting  Reconciliation Adjustments  Others  Catalog Extension: Use this to extend the out-of-the-box Data Structure.  Note  If you select the Adjustment based Action Type, then on the Action Details page, Adjustments Tab is displayed, where you can create an Adjustment for the Action.
	If you select the Catalog Extension Action Type then on the Action Details page, Extension Take is displayed, where you can create a Business Term for the Action.  Data Entry: Use this if you want to edit or add data to the master table directly. This allows to edit data through Data Entry forms and through Excel upload as well.
Criticality	Set one of the following criticality levels for the Action:  Low  Medium  High
Start Date	Select the beginning date in the range on which you need this Action to be executed.



Table 4-2 (Cont.) Actions Field Names and Description
---

Field Name	Description
Target Date	Select the last date in the range within which you need this Action to be executed.
Owner	Assign the required Owner for the Action.
Comments	Add comments for the Action, if required.
Attach Documents	Use this to attach documents relevant for this Action. The file format can be of type: .xls, .pdf, .txt and .doc.

#### 5. Click Save.

A confirmation message is displayed. Acknowledge the confirmation message.

6. Click outside the Action Details page to close it. The new Action is listed on the **Inbox** page with the status marked as **New** along with the other Action details.

# 4.3.9 Create an Action for Data Management – Data Entry and Excel Uploads through DMI

To Add/Edit data directly in the Stage master entities, follow these steps:

Ensure the **DMI forms** have been created and approved for the specific entity before making any changes.

- For detailed steps on creating a DMI form, refer to:
  - Creating Forms using Excel Upload: For bulk entries through Excel uploads.
  - Creating Forms using Data Entry: For single or limited entries through the Data Entry Designer form.

Once the DMI form is ready and approved, you can proceed with adding, modifying, or deleting data in the Stage Master.

### 4.3.9.1 Adding Data to Entity – Forms created using Data Entry

For Data Management through Data Entry.

- 1. Navigate to the inbox by clicking **Inbox** button on the home page.
  - The **Inbox** page is displayed.
- 2. On the **Inbox** page, select the required Issue for which you need to create an **Action**.
- Select Data Entry in the Action Type.
- 4. You can edit the Description, Criticality, Start Date, Target Date, Owner, Comments, and Attach Documents fields.
- 5. Click **View more** to open Data Entry tile.
- 6. Select the **Form ID**. Refer to <u>Configuring Data Entry</u> for creating the form.
- The Data Entry form for the Stage entity associated with the Form name is displayed in a new window.
- 8. Click on Add [+] button to start adding data. For adding subsequent data, the user can click on the three dots and then select the Edit button.
- 9. Enter data as in accordance to the Data Type for the specific field in the entity.



- 10. Click **Update** to add to data list. Repeat the above steps to keep adding data.
- 11. To edit a row, click the three dots in the Actions column and select Edit.
- 12. To Delete any row(s), select the intended row(s) and click the **Delete** icon to delete the selected row(s).
- 13. Once Data is added / modified, click on **Save** in the inner Data Entry window.

### (i) Note

You can edit an existing entity record and save the changes. Clicking **Delete** will remove all unsaved records, even those that have not been selected.

**14.** You can return to the saved form any number of times before submitting the action. After submitting the action, the form can still be viewed, but modifications are only allowed when the action is in a **New** or **Returned** state.

### Note

### Changing the Form:

- Users can select a different form from the drop-down menu when the action is in either **Draft** or **Returned** state.
- Only one form can be associated with a specific Data Entry type action.

If the user selects a different form:

- A confirmation message will be displayed.
- If confirmed, **all intermediate data** (draft or awaiting records) from the previous form will be deleted.
- **Note:** The user must have **Delete permission** mapped for the previous form under User Security in order to perform this action.

### **Closing Data Entry Action:**

- Closing a data entry action will also clean up all its intermediate data (draft/ awaiting records).
- For the user to close the data entry action and delete the intermediate data,
   the **Delete permission** must be mapped for the form under **User Security**.
- **15.** When the form is ready for submission, click the **Submit** button on the Action screen. The Action will then be sent to the Action owner for approval.
  - Submitting the Data Entry form will move the records from Draft Status to Awaiting Status.
  - Refer to Approve an Action and Return an Action for Approving or Returning the action.
- **16.** Once the Action Owner approves the action, the form is ready to be Published.
  - Refer to Publish an Action to Publish the Data Entry action.



### ① Note

Entities list is cached in a service, which gets refreshed every 2 hours. When you create a new dimension via Catalog, it would get reflected after the next refresh cycle. Only one form can be associated to one Data Entry type of action and if user picks a different form then a confirmation message will be displayed, and when confirmed then all the intermediate data (draft/awaiting records) of previous form's will be deleted.

### (i) Note

- Closing a Data Entry action will also remove all its intermediate data.
- Only one form can be associated with a Data Entry type action. If the user selects a different form, a confirmation message will appear. Upon confirmation, all intermediate data (draft/awaiting records) from the previous form will be deleted.
- The user who submits a Data Entry action cannot return or publish the same action.
- **17. Submitting a Data Entry Action**: The user who submits a Data Entry type action cannot return or publish the same action.
- 18. Post-Publish Action: Once the action is published, successful records will be published, and failed records will be moved back to the Draft state of the same form. A new action can be created with the same form to edit the failed records (moved back to Draft) for correction.
- 19. Viewing Record Counts: The count of failed and successful records can be viewed by clicking on the Published Actions > Publish Change Request tab.
- **20. Troubleshooting Failed Records**: For failed records moved back to the Draft state, click on the Options (three dots) and then select **Audit** to view the reason for the failure.

### 4.3.9.2 Adding Data to Entity – Forms created using Excel Upload Excel Workflow

For Data Management through Excel Upload.



Form Creation

Form definition using excel upload

Form Approval

Action Approval

Action Approval

Action Approval

Action Approval

Action Approval

Figure 4-2 Upload Excel Workflow

- Create a form in DMI using the <u>Configuring Excel Upload</u>. The excel template with the actual data is uploaded in the from creation.
- Approve the DMI form.
- 3. Navigate to the Inbox by clicking the Inbox button on the home page. The Inbox page is displayed.
- 4. On the Inbox page, select the required Issue for which you need to create an Action.
- 5. Select **Data Entry** in the Action Type.
- You can edit the Description, Criticality, Start Date, Target Date, Owner, Comments, and Attach Documents fields.
- 7. Click View more to open Data Entry tile.
- 8. Select the Form created in step 1 with the Excel upload.
- The Designer form for the Stage table associated with the Form name is displayed.
- 10. The Form is already in the **Awaiting** status. No modifications are allowed in this stage.
- 11. Click the **Submit** button on the Action screen. The Action goes to the Action owner for approval.
- 12. Once the Action Owner approves the action, the form is ready to be Published.
- 13. Refer to Approve an Action and Return an Action for Approving or Returning the action.
- 14. Refer to Publish an Action to Publish the Data Entry action.

### Note

No validation of data in the excel is currently performed. The user needs to manually verify the data before proceeding to upload while creating the DMI form. Should there be errors at the time of Publish Change Request, the user will be notified the numbers of records Passed and Failed. The user can remediate for the failed records using the Issue/Action – Publish procedure.



### 4.3.9.3 Update an Action

Follow these steps to update an existing Action:

- 1. On the **Inbox** page, click the required Action.
  - The **Action Details** page is displayed.
- You can edit the Description, Action Type, Criticality, Start Date, Target Date, Owner, Comments, and Attach Documents fields.
- 3. Click **Update** to save the modifications.
  - A confirmation message is displayed.
- 4. Review and acknowledge the confirmation message.
- 5. Click outside the Action Details page to exit.

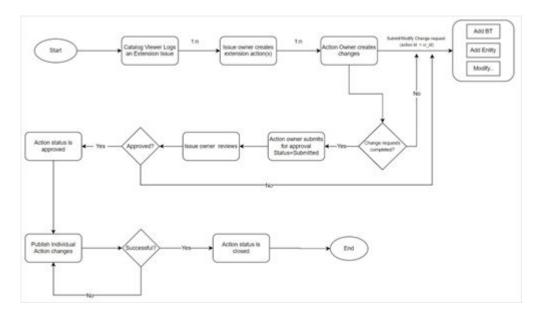
# 4.3.9.4 Approval Workflow for Issues and Actions

This section provides information on the approval workflow for the created issue and the submitted action in Data Foundation.

### 4.3.9.5 Issue Action Workflow

The Issue owner has the privilege to view and approve the Actions submitted by the Action owner. Actions once approved cannot be edited further; all the extensions will be disabled for further modifications.

Figure 4-3 Approval Workflow for Issues and Actions



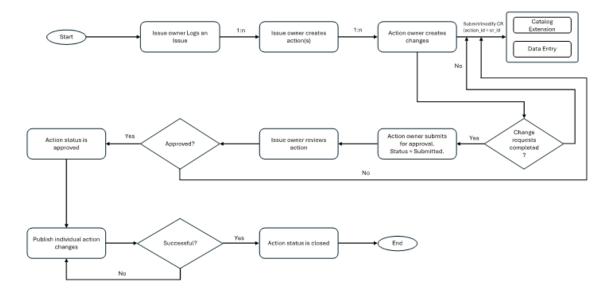


Figure 4-4 Approval Workflow for Issues and Actions Start

# 4.3.9.6 Approve an Action

To approve an Action, follow these steps:

- 1. On the Inbox page, click the required Action that is in Submitted status.
- 2. View the submitted action and the corresponding Business Term details.
- Click Approve to proceed.

A confirmation message is displayed.

- 4. Enter the reason for approving the submitted action, and click **Save** to confirm.
- Review and close the acknowledgment message.
- Click outside the Action Details page to close it.

### 4.3.9.7 Return an Action

To return an Action, follow these steps:

- 1. On the **Inbox** page, click the required Action.
  - The **Action Details** page is displayed.
- View the submitted Action and its corresponding Business Term details.
- Click Return to proceed.

A confirmation message is displayed.

4. Enter the reason for rejecting the submitted action, and click **Save**.

A confirmation message is displayed.



You can modify Action details and re-submit it for approval.



- 5. Close the acknowledgment.
- 6. Click outside the **Action Details** page to close it.

### 4.3.9.8 Close an Action

To close an Action, follow these steps:

- On the Inbox page, click the required Action. The Action Details page is displayed.
- 2. Click **Close**. A confirmation message is displayed.
- To close the Action, click Yes.
- 4. Close the acknowledgment. A confirmation message is displayed.
- Close the acknowledgment.
- 6. Click outside the Action Details page to close it.

### 4.3.9.9 Reopen an Action

To reopen an Action, follow these steps:

- On the Inbox page, click the closed Action that you want to reopen. The Action Details
  page is displayed.
- Click Re-open. A confirmation message is displayed.
- 3. To reopen the Action, click **Yes**. A confirmation message is displayed.
- 4. Review and close the acknowledgment message.
- 5. Click outside the **Action Details** page to close it.

### 4.3.9.10 Delete an Action

To delete an Action, follow these steps:

- 1. On the **Inbox** page, select the required Action.
- 2. Click Delete. A confirmation message is displayed.
- 3. To delete the Action, click **Yes**. A confirmation message is displayed.
- Close the acknowledgment.
- 5. Click outside the **Action Details** page to close it.

### **Alternative Method**:

To Re-open, Close, or Delete an Action:

- **a.** On the **Inbox** page, select the required Action.
- b. Click the menu associated with the Action.
- **c.** Choose **Re-open, Close, or Delete** as needed and follow the relevant instructions from the preceding sections.

# 4.3.9.11 Create or Update a Business Term

To create or update a Business Term for an Action, see the Manage Business Terms section in the OFS DFCS Data Catalog User Guide.