# Oracle Financial Services Data Model Extension User Guide





Oracle Financial Services Data Model Extension User Guide, Release 24A

F94251-01

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## **About This Guide**

This guide provides the information for Oracle Financial Services Cloud Services Data Model Extension module.

#### **Audience**

This guide is intended for anyone who maintains the Cloud Service Data Base.

#### **Documentation Accessibility**

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#### **Related Resources**

See these Oracle Financial Services resources:

- Profitability and Balance Sheet Management Cloud Service
- Accounting Standards for Banking Cloud Service
- Climate Change Analytics

#### **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.	



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## Data Model Extension

Customization of Physical Data Model is restricted in the Cloud Service. However, there may be a need to extend the Data Model to meet multiple business requirements. For this purpose, the Cloud Service provides OOTB placeholder Columns and Tables that can be configured to use as custom Columns, Custom Dimensions, and Custom Management Ledger Tables as suitable to the business requirements.



The Management Ledger tables are applicable only to Profitability and Balance Sheet Management Cloud Services.

These placeholder Columns and Tables must be registered before use. The Data Model Extension Module allows you to do the following types of registrations:

- · Dimensions Registration
- · Columns Registration
- Management Ledger Registration
- Pending Registration

After registration, you can start loading the data in the selected placeholder Columns and Tables and use them to define the Rules and Assumptions for further processing and reporting.

Appropriate user roles must be created and maintained for the users to perform the registration and registration approval processes.

To register the placeholder Columns and Tables, from the LHS Menu, select **Data Management Tools**, and then select **Data Model Extension** to display the DataModel Extension summary screen.

The Data Model Extension summary screen displays the following tiles:

- Dimensions
- Columns
- Management Ledger
- · Pending Registration

Using this UI, you do the registration of Dimensions, Columns, and Management Ledger Tables. After the registration is done, the detail will be sent to the Supervisor or Approver User who either approves or rejects the registration.



# 2.1 Registering Dimensions

Through the Dimension Registration UI, you register two types of Dimensions; Simple Dimensions and Key Processing Dimensions that are explained in the following topics.

Dimensions are the Placeholder Columns and Tables. The column names appear in the Instrument Tables as Physical Column Names. The Data Model Extension UI allows you to define the Logical Layer with details Name, Description, and the purpose of the column. After these columns are defined, they appear in the drop-down lists in the application screens as UDPs (User Defined Properties) that you can use. This process of defining the Dimensions is called Registering.

## 2.1.1 Register a Simple Dimension

Simple Dimensions are list of values that support neither attributes nor hierarchies.

Simple Dimensions are list of values that support neither attributes nor hierarchies. Their three key uses are:

- Reserved for use within the Analytical Application Engines
- Stratifying your data for process or report filtering purposes
- Serving as list of values when used as attributes

The Cloud Service Data Model comes with a set of placeholder Simple Dimensions for configuration and use. The member details of simple dimensions are stored in two tables:

- A code table (For example, FSI\_SIMPLE\_DIM\_01\_CD)
- A Multi-Language Support table (for example, FSI\_SIMPLE\_DIM\_01\_MLS)

To register a Simple Dimension:

 Navigate to the summary screen, and click the Simple Dimensions tile to display the Simple Dimension summary screen.

Comple Cinemation

\*\*\* Ofmentation Details

Physical Column Name: 1s Name: 1s Description: 1s Registration Status: 1s Dimension ID: 1s Actions:

PLC\_01\_SIMPLE\_DIM\_CD SimpleCimension\_01 SimpleCimension\_01 Approved 2001 \*\*\*

PLC\_02\_SIMPLE\_DIM\_CD SimpleCimension\_03\_E\_ SimpleCimension\_03\_E\_ Approved 2003 \*\*\*

PLC\_02\_SIMPLE\_DIM\_CD SimpleCimension\_03\_E SimpleCimension\_03\_E Approved 2003 \*\*\*\*

Figure 2-1 Simple Dimension summary screen

The Simple Dimension summary screen displays the summary of existing Simple Dimensions with the Physical Column Names, Name, Description, Registration Status, Dimension ID details, and Actions icon.



2. Click **Add New Dimension** to collapse the Dimension Details summary and to display the dimension details.

When you click **Add New Dimension**, the UI displays **Save** and **Submit for Approval** buttons.

- 3. Enter the following details:
  - **Name** (mandatory): Specify the required logical name of the dimension.
  - Description (mandatory): Specify the required description of the dimension.
  - Comment: Specify the required maker/checker comment. Note that special characters \*, newline, and double quotes are not allowed.
     The Details section displays the Physical Column and Data Type information that the dimension uses for user reference. As and when a registration takes place successfully and the physical column is utilized, the next registration process proceeds to take the next-in-numerical-order physical column available for registration.
- 4. Click **Save**. The details are saved as a Draft and displayed on the summary screen. You can change the Name, Description, and Comments later by double clicking the details.
- Click Submit for Approval to send the Dimension Details for approval. Or select a Name from the list and click the Actions icon to View, View, Edit, Submit for Approval or Delete the simple dimension.

Or

Select a Name from the list and click the Actions icon to View, View, Edit, Submit for Approval or Delete the simple dimension.



- You can delete a registration when it is in Draft state.
- If the selected Dimension is in Approved state, then the Actions menu displays only View, Edit, and Submit for Approval actions.

## 2.1.1.1 View a Simple Dimension

To view a Simple Dimension, perform the following steps.

To view a Simple Dimension, perform the following steps:

- Click the Actions Icon against the selected Simple Dimension to expand the Actions Menu.
- 2. Click **View** to see the details of the selected Simple Dimension.

## 2.1.1.2 Edit a Simple Dimension

To edit a Simple Dimension, perform the following steps:

- Click the Actions Icon against the selected Simple Dimension to expand the Actions
   Menu.
- 2. Click **Edit** to display the selected Dimension details in edit mode.
- 3. Edit the following details:



- a. Name: This is mandatory.
- b. **Description**: This is mandatory.
- **c. Comment**: Specify the required maker/checker comment. Note that special characters \*, newline, and double quotes are not allowed.
- 4. Click **Save** to save the details as a draft.
- 5. Click **Submit for Approval** to send the Dimension Details for approval.

#### Note:

- When you edit an already approved Dimension, the Dimension must be submitted for approval again. You cannot delete or edit the Dimension again.
- Additionally, if you edit an approved Dimension, then the Actions Icon displays only the View option for the Dimension.

## 2.1.1.3 Delete a Simple Dimension

To delete a Simple Dimension, perform the following steps:

- Click the Actions Icon against the selected Simple Dimension to expand the Actions Menu.
- 2. Click **Delete** to delete the Dimension.

## Note:

You can only delete a Dimension that is in Draft stage. The Actions Menu does not display the Delete action for an approved dimension.

## 2.1.2 Register a Key Processing Dimension

Key Processing Dimensions have the following features:

- Accessible as modeling dimensions for all of the Cloud Service Analytical Engines.
- Expressed as columns in nearly all of your Business Fact Tables.
- Support both attributes and hierarchies.

Metadata for Key Processing Dimensions is stored in four tables:

- A base table (For example, DIM\_<Dimension Name>\_B)
- A translation table (For example, DIM\_<Dimension Name>\_TL)
- An attribute table (For example, DIM\_<Dimension Name>\_ATTR)
- A hierarchy table (For example, DIM\_<Dimension Name>\_HIER)

Base tables store basic information about each Dimension Member and Translation Tables store names and descriptions for each Dimension Member in multiple languages.



Attribute Tables store one or many attribute values for each Dimension Member. Hierarchy Tables store one or more hierarchies for each dimension (you may define as many hierarchies as you wish for any dimension that supports hierarchies).

The DM Extension Module enables you to create Custom Dimensions as required by the business. To register a Key Processing Dimension:

 Navigate to the summary screen, and click the Key Processing Dimension tile to display the Key Processing Dimension summary screen.

→ Dimension Details PLC\_05\_KEY\_DIM\_ID fest\_KPD\_100 Test\_KPO\_100 Draft PLC\_01\_KEY\_DIM\_ID plc 1 kpd PLC 03 KEY DOM ID plc 3 kpd plc 3 kpd PLC\_D4\_KEY\_DIM\_ID plot kpd plc 4 kpd PLC,02,KEY,DIMUD plc 2 KPD plc 2 KPD

Figure 2-2 Key Processing Dimensions summary screen

The summary screen displays the summary of existing Key Processing Dimensions with the details Physical Column Names, Name, Description, Registration Status, Dimension ID, and Actions icon.

The Actions icon displays the **View** button. You can click the **View** button and see the Dimension Details in View Only mode.

The registration of a dimension happens after the dimension is approved. The Dimension ID is displayed only for the approved dimensions.

Click Add New Dimension to collapse the Dimension Details summary and to display the dimension details.

When you click **Add New Dimension**, the UI displays the **Save** and **Submit for Approval** buttons.

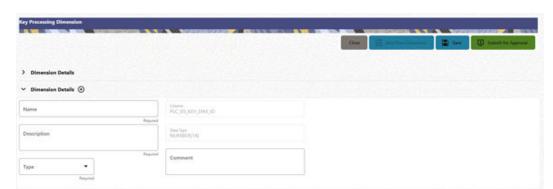


Figure 2-3 Key Processing Dimension screen



- **3.** Enter the following details:
  - Name: This is a mandatory field. Specify the required logical name of the dimension.
  - Description: This is a mandatory field. Specify the required description of the dimension.
  - **Type**: This is a mandatory field. Select a relevant Dimension Type.
    - Product (Prod): Select this option if you want to use the placeholder Dimension to define Business Rules and Assumptions.
    - Organization (Org): Select this option if you want to use the Placeholder Dimension to define a new Organization structure.
    - Other: Select this option if you want to use the placeholder Dimension for any other purpose.
  - **Comment** Specify the required maker/checker comment. Note that special characters \*, newline, and double quotes are not allowed.

The **Details** section displays the Physical Column and Data Type information that the dimension uses for user reference. As and when a registration is successful and the physical column is utilized, the next registration process proceeds to take the next-in-numerical-order physical column available for registration.

- 4. Click Save to save the details. The details are saved as a Draft and displayed on the summary screen. You can change the Name, Description, and Comments later by double clicking the details.
- Click Submit for Approval to send the Dimension Details for approval.
   Or

Select a **Name** from the list and click the **Actions** Icon to View, Edit, Submit for Approval or Delete the key processing dimension.

### Note:

- You can delete a registration when it is in Draft state.
- If the selected Dimension is in Approved state, then the Actions Menu displays only View, Edit, and Submit for Approval actions.

# 2.2 Registering Columns

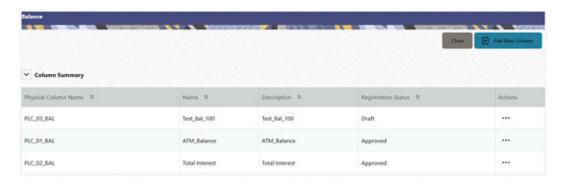
The Placeholder Columns are categorized under the different domains to be used for different purposes.

The procedures to register the listed Columns are similar. To register a column:

 Navigate to the Summary screen, and click a Column tile to display the Column Summary screen.



Figure 2-4 Column Summary screen



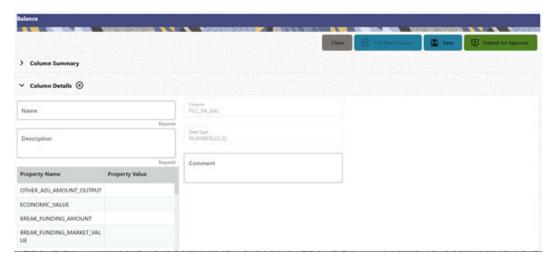
The summary screen displays the summary of existing Columns with the details Physical Column Names, Name, Description, Registration Status, and Actions icon.

The registration of a Column happens after the Column is approved.

Click Add New Column to collapse the Column Summary and to display the Column Details.

When you click **Add New Column**, the UI displays the **Save** and **Submit for Approval** buttons.

Figure 2-5 Column Screen



- 3. Enter the following details:
  - **Name**: This is mandatory. Specify the required logical name of the column.
  - Description: This is a mandatory field. Specify the required description of the column.
  - **Property Name**: This is an optional field used to select a relevant Property from the drop-down list, as applicable to the Column.
  - Property Value: Double click to display a drop-down where you can select Yes if it is applicable to the Column.
  - Comment: Specify any maker/approver comment. Note that special characters \*, newline, and double quotes are not allowed.



The **Details** section displays the Physical Column and Data Type Information that the column uses for user reference. As and when a registration takes place successfully and the Physical Column is utilized, the next registration process proceeds to take the next-in-numerical-order physical column available for registration.

- 4. Click **Save**. The details are saved as a Draft and are displayed on the Summary screen. You can change the Name, Description, and Comments later by double clicking the details.
- Click Submit for Approval to send the column details for approval. OR

Select a **Name** from the list and click the **Actions** icon to View, Edit, Submit for Approval, or Delete the Column. Editing, Submitting for Approval, or Deleting procedures are similar to Dimension Edit, Submit for Approval, or Delete procedures.



- You can delete a registration when it is in Draft state.
- If the selected Column is in *Approved* state, then the Actions menu displays only View, Edit, and Submit for Approval actions.

#### **Domain Types**

The below domain types are available for each of the Cloud Service:

**Table 2-1 Domain Types** 

Profitability and Balance Sheet Management Cloud Service Domain Types	Accounting Standards Cloud Service Domain Types	Climate Change Analytics Cloud Service Domain Types
• DATE	• DATE	BALANCE
• RATE	<ul> <li>RATE</li> </ul>	<ul> <li>CHAR</li> </ul>
<ul> <li>VOLUME</li> </ul>	<ul> <li>VOLUME</li> </ul>	<ul> <li>CODE</li> </ul>
<ul> <li>CHAR</li> </ul>	<ul> <li>CHAR</li> </ul>	• DATE
<ul> <li>LONG_DESCRIPTION</li> </ul>	<ul> <li>LONG_DESCRIPTION</li> </ul>	<ul> <li>FLAG</li> </ul>
• FLAG	<ul> <li>FLAG</li> </ul>	<ul> <li>LEAF</li> </ul>
<ul> <li>BALANCE</li> </ul>	<ul> <li>BALANCE</li> </ul>	<ul> <li>NUMBER</li> </ul>
	<ul> <li>SHORT_NAME</li> </ul>	<ul> <li>RATE</li> </ul>
	<ul> <li>SHORT_NUMBER</li> </ul>	<ul> <li>PERCENT</li> </ul>
	<ul> <li>SHORT_DESCRIPTION</li> </ul>	<ul> <li>LONG_DESCRIPTION</li> </ul>
	<ul> <li>CODE_CURRENCY</li> </ul>	<ul> <li>SHORT_DESCRIPTION</li> </ul>
	<ul> <li>PERCENT</li> </ul>	<ul> <li>COUNTERPARTY_BALA</li> </ul>
	<ul> <li>LOCALE_CD</li> </ul>	NCE
	<ul> <li>TIMESTAMP</li> </ul>	<ul> <li>COUNTERPARTY_RATE</li> </ul>
	<ul> <li>NAME</li> </ul>	<ul> <li>COUNTERPARTY_PERC</li> </ul>
	• LEAF	ENT
	<ul> <li>OBJECT_ID</li> </ul>	<ul> <li>COUNTERPARTY_CHAR</li> </ul>
	<ul> <li>SYSTEM_IDENTIFIER</li> </ul>	



# 2.3 Registering a Management Ledger

This is applicable only to Profitability and Balance Sheet Management Cloud Services.

PBSM Cloud Service is contains the default Management Ledger (FSI\_D\_MANAGEMENT\_LEDGER). However, you can add upto five other Management Ledgers to the Service.

To view and edit the Management Ledger:

 Navigate to the Summary screen, and click the Management Ledger tile to display the Edit Management Ledger screen.

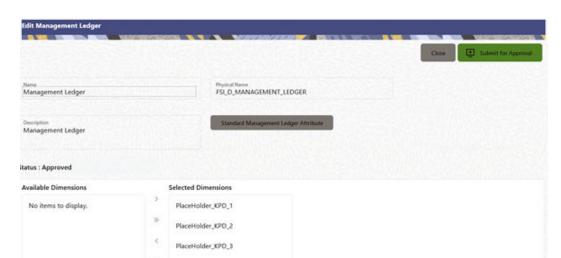


Figure 2-6 Edit Management Ledger Screen

This screen displays the following details of the Management Ledger as follows:

PlaceHolder KPD 4

- Name (non-editable)
- Physical Name (non-editable)
- Description (non-editable)
- Click Standard Management Ledger Attribute to collapse and see the available Standard Dimensions, Standard Columns, and Approved Dimensions.

The Standard Dimensions section shows the Key Processing Dimensions that are available OOTB for the Management Ledger. In addition to this, the screen enables the selection of custom Key Processing Dimensions for the Management Ledger through a shuttle box component that displays the registered custom dimensions in the Available Dimensions and the Selected Dimensions boxes. You can select from the **Available Dimensions** box and move them to the **Selected Dimension** box using the **Move** button. Additionally, you can remove the Selected Dimensions by clicking the **Move Back** button.

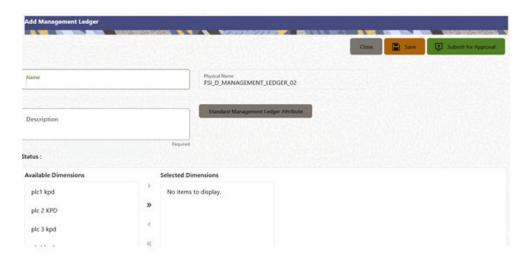
The Standard Columns comprises of the OOTB Ledger-level Simple Dimensions and Admin Columns. The Approved Dimensions shows the list of Custom Dimensions approved for the Management Ledger.

## 2.3.1 Adding a Management Ledger

To add a new Management Ledger, perform the following steps:

 Navigate to the Summary screen, and click the Add Management Ledger tile to display the Add Management Ledger screen.

Figure 2-7 Add Management Ledger Screen



- 2. Enter the following details:
  - Name: This is a mandatory field. Specify the logical name of the Management Ledger.
  - Description: This is a mandatory field. Specify the description of the Management Ledger.
- 3. Select the applicable Dimensions from the **Available Dimensions** box and click the **Move** button to move them to Selected Dimensions box. The selected Dimensions are included as the additional activated Key Processing Dimensions for the Management Ledger.
- 4. Click **Submit for Approval** to send the column details for approval.

The details are sent to the Supervisor or Approver for approval. The newly added Management Ledger is displayed on the summary screen in a new tile.



- You can delete a registration when it is in Draft state.
- If the selected Management Ledger table is in Approved state, then the Actions Menu displays only View, Edit, and Submit for Approval actions.



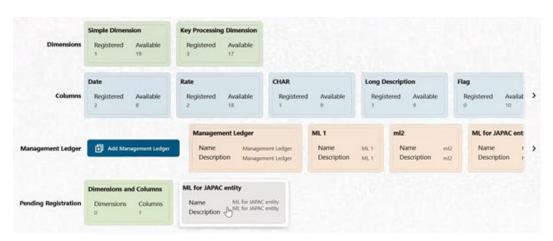
# 2.4 Approving or Rejecting the Registrations

The Supervisor or Approver can see the Dimensions or Columns or Management Ledgers that are ready for approval on the Data Model Extension summary screen.

To approve the Dimensions, Columns, and Management Ledgers, perform the following steps:

1. Navigate to the **Data Model Extension** summary screen.

Figure 2-8 Data Model Extension Summary Screen



The Dimensions and Columns that are ready for approval are displayed in one tile and the Management Ledgers that are ready for approval are displayed in another tile against the **Pending Approval** Table.

- Click on any Tile to open to the Pending Dimension and Column Registration screen or Approve Management Ledger Registration screen.
- Enter a comment and click the Approve or Reject buttons.
- 4. Select OK.
  - **a.** The approved Dimension or Column or Management Ledger is displayed in the summary screen with *Approved* status.
  - Select Cancel to keep the Dimension or Column or Management Ledger in a Pending for Approval Status.
- 5. Click **Reject** to reject the registration. Complete the approval process. The Registration will be marked with status Rejected in the summary screen.
- 6. After it is approved or rejected, the registration is available for further modification by the Maker and can be submitted again.

A registration cannot be deleted after it has passed the Draft State and is currently in Pending, *Approved* or *Rejected* state.

