

Oracle® Communications Service Catalog and Design

Release Notes



Release 8.1
F96236-02
October 2024

ORACLE®

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Preface

This document provides release notes for Oracle Communications Service Catalog and Design. Each chapter describes, if applicable for this release, Service Catalog and Design's new features, fixes, and known problems.

Oracle recommends that you install the latest version of Service Catalog and Design to ensure the highest level of compatibility across the application releases and to take advantage of the improvements that have been introduced for the design time experience and application functionality.

Audience

This document is intended for designers, developers, testers, and administrators responsible for modeling and managing Oracle Communications products in Service Catalog and Design.

Documentation Accessibility

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

1

Service Catalog and Design

Oracle Communications Service Catalog and Design provides a unified environment for designing, testing, and deploying integrated multi-application OSS solutions. It simplifies the management and maintenance of services and networks by centralizing service, resource, and network specifications and configurations. It enables you to define TM Forum (TMF) aligned PSR models to define customer and network services. The intuitive and user-friendly interface enables all types of users to build end-to-end solutions easily. The primary focus of Service Catalog and Design is to have a no code and low code design environment for configuration of the orchestration, inventory and assurance solutions and individual applications. Service Catalog and Design requires no application expertise, so you can rapidly define services and technical building blocks without extensive application training. Also, it simplifies solution evolution by enabling you to update the solution design and to release updates that meet the evolving service requirements.

Service Catalog and Design comprises the following components:

- **Solution Designer:** Solution Designer runs as a cloud native application in a containerized and orchestrated deployment architecture. It is a unified environment for designing, configuring, and deploying a service where all the components, specifications, and configurations are consolidated. It provides modern journey and persona driven user experience for defining service and resource catalog for business solutions. For more information on Solution Designer and its capabilities, see *Solution Designer User's Guide*.
- **Design Studio:** Design Studio is an integrated GUI tool based on the Eclipse IDE. This enables designers and developers to use the fully-featured Java IDE capabilities to further enhance, extend or integrate the solution business logic. This design-time environment enables you to build and configure Oracle service fulfillment and network and resource management solutions. For more information on Design Studio and its capabilities, see *Concepts guide*.

Topics in this chapter

- [New Features in 8.1.0.1](#)
- [New Features in 8.1.0](#)
- [Known Problems and Limitations](#)
- [Deprecated Features](#)

New Features in 8.1.0.1

This section includes information about new features introduced in release 8.1.0.1.

- [Ability to Filter Initiative Items With Errors](#)
- [View PSR Models in Full Page](#)

Ability to Filter Initiative Items With Errors

You can now filter only the items with validation errors in the **Initiative Items** tab in **Initiatives**. A new drop-down list is added with the following values:

- **All items:** Selecting **All items** displays all the items associated with the initiative including the items with errors. This is the default value.
- **Items with errors:** Selecting **Items with errors** displays only those items with validation errors.

View PSR Models in Full Page

You can now view the PSR models in full page when the model is non-editable. You cannot edit a PSR model that is in Functional testing, Acceptance testing, Approval, and Released status. A new **Explore** button is added in the **PSR Model** tab which opens the **Edit Configuration** page in full screen. You can search for an entity using **Search** in the **Edit Configuration** page.

New Features in 8.1.0

This section includes information about new features introduced in release 8.1.0.

- [Improved Usability and Productivity](#)
- [Enhanced Design Policies](#)
- [Improved Extensibility for Design Policies](#)
- [Enhanced Service Catalog Modeling Capabilities](#)
- [Support for Role Based Access Control](#)

Improved Usability and Productivity

This section includes information about new features introduced for improved usability and productivity.

- [Automatic Mapping of Design Parameters and Characteristics](#)
- [Consolidated View of Design and Delivery Parameter to Action Code Mapping](#)
- [Persist Search Criteria When Navigating to Entity Details](#)
- [Enhanced Usability in Configuration Canvas](#)
- [UIM Specific Inventory Settings for Characteristics](#)
- [Support for Attributes Provided Out-of-the-box by UIM](#)

Automatic Mapping of Design Parameters and Characteristics

You can now map the design parameters of a specification automatically to its characteristics and the design parameters of its immediate child. Solution Designer provides **Automap** in the **Parameter Mapping** drawer. When clicked, **Automap** maps the source design parameter to the destination parameters with the same name and the same data element type.

See "Mapping Parameters Automatically" in *Solution Designer User's Guide* for more information.

Consolidated View of Design and Delivery Parameter to Action Code Mapping

Solution Designer provides a consolidated view of the design parameters to action code mapping in the design parameters in service specifications, resource specifications, and PSR

models. Similarly, it provides a consolidated view of the delivery parameters to action code mapping in the delivery policies.

Persist Search Criteria When Navigating to Entity Details

The search criteria that you entered in Solution Designer is now retained while navigating back-and-forth. When you perform a search on the Solution Designer applications using filter chips or by typing keywords, the search criteria is retained when you navigate to the entity details page. When you navigate back to the search page, you see the results based on the retained search criteria. When you navigate to a different application or log out of the Solution Designer application, the search criteria is not retained.

Enhanced Usability in Configuration Canvas

Solution Designer provides the following features in the Configuration canvas for the Service Specifications, Resource Specifications, and PSR Models:

- You can now expand or collapse all the entities in the **Edit Configuration** canvas by clicking **Expand All** or **Collapse All** on the top left.
- You can search for any entity in the **Edit Configuration** canvas, including components by clicking **Search**. Type the name of the entity that you want to search in the configuration canvas. The searched entity is expanded and when you click the entity on the left side, the entity along with its children is shown in the configuration canvas.
- You can now set the display settings for the configuration canvas. You can select **Entity icon** and **Entity type** to display the entity icon and the entity type. You can choose the orientation to display the configuration model horizontally or vertically.

UIM Specific Inventory Settings for Characteristics

You can now configure the presentation of data elements in the UIM run-time application in the **Inventory Settings** section in **Data Elements**. You can specify the manner in which run-time application users interact with the corresponding data element by selecting **Control Type**. The value that you select in this field determines the subsequent options that appear.

See "Creating New Data Elements" in *Solution Designer User's Guide* for more information on **Inventory Settings**.

Support for Attributes Provided Out-of-the-box by UIM

Solution Designer now supports out-of-the-box attributes provided by UIM. The data elements that are added by default as characteristics are called as hard attributes. The hard attributes are added based on the resource type. See "About Hard Attributes" in *Solution Designer User's Guide* for more information on hard attributes.

Enhanced Design Policies

This section includes information about new features introduced in design policies.

- [Resource Selection Design Policies Based on Characteristics](#)
- [Support for Resource Creation in Design Policies](#)

Resource Selection Design Policies Based on Characteristics

You can now define standard policies in Solution Designer for designing and assigning resources based on the characteristics. As an example, based on Service Address, reserve and assign the phone numbers from the range in the inventory. See "Defining Resource Selection Policies" in *Solution Designer User's Guide* for more information on resource selection design policies.

Support for Resource Creation in Design Policies

You can now define design policies to create the following resources automatically:

- Logical Device specification
- Logical Device Account specification
- Property Location specification
- Telephone Number specification
- Place

Improved Extensibility for Design Policies

This section includes information about new features introduced for improving the extensibility for design policies where the developers can write implementation code for design policies.

- [Upload the Implementation Asset Details Automatically](#)
- [Support for Advanced Configuration in Initiative Lifecycle](#)
- [Support for Third-party Libraries in Extended Designer Class](#)

Upload the Implementation Asset Details Automatically

You can now upload the implementation assets details for the advanced policies from Design Studio workspace to Solution Designer automatically using Object Store Utility tool. Object Store Utility is a JAR file which allows you to upload the implementation assets details such as the extended designer classes, the helper classes, and the third-party libraries to a S3-compatible object store and then update the relative paths to Solution Designer.

See "Working with Object Store Utility" in *Developer's Guide* for more information on Object Store Utility.

Support for Advanced Configuration in Initiative Lifecycle

Solution Designer now supports the **Advanced Configuration** phase in the initiative lifecycle. In this phase, you can implement the custom code in the extended designer class for the advanced policies. See "Lifecycle of Initiatives" in *Solution Designer User's Guide* for more information on the **Advanced Configuration** phase.

Support for Third-party Libraries in Extended Designer Class

You can now use third-party libraries in the extended designer class. Third-party libraries are reusable software components that are available either freely or sold by an entity. See "Working with Extended Designer Class" in *Developer's Guide* for more information on using third-party libraries in extended designer class.

Enhanced Service Catalog Modeling Capabilities

This section includes information about new features introduced to enhance the service catalog modeling capabilities.

- [Support for Creation of Locations](#)
- [Ability to Create a CFS as a Child of Another CFS](#)
- [Support for Multiplicity in Feature Groups](#)
- [Support for Feature Groups on Delivery Parameters](#)

Support for Creation of Locations

You can now create location specification in Solution Designer and two location specification types are supported:

- **Place Specifications:** You use Place specifications to define entities that represent places that can be located on maps.
- **Property Location:** You use Property Location specification for geographic locations involved in connectivity scenarios. Unlike Place entities, Property Location entities are all based on a single entity.

See "About Locations" for more information on location specifications.

Ability to Create a CFS as a Child of Another CFS

You can now add a Customer Facing Services (CFS) as a child of another CFS, while building the PSR models and configuring specifications.

Support for Multiplicity in Feature Groups

You can now add multiplicity details for the feature groups that are defined as design parameters, characteristics, and delivery parameters. You can define the minimum and maximum number of times the feature group can appear in a run-time instance. See "Defining Characteristics" in *Solution Designer User's Guide* for more information.

Support for Feature Groups on Delivery Parameters

You can now map the Feature Groups characteristics in Delivery Parameters to the Feature Groups characteristics of the related resource specification. You must have a similar hierarchy for source and the destination feature groups, when you map the feature group itself. You can also map the individual data elements in the feature group to a characteristic of an entity or to another individual data element within the other feature group.

Support for Role Based Access Control

You can now configure Role Based Access Control (RBAC) for the users in Solution Designer. You can assign **Domain Filter Roles** to the users to filter the access to the entities based on the service domain or the technology domain. All users must be assigned to a **Domain Filter Role**.

See "Roles" in *Solution Designer Installation Guide* for more information.

Known Problems and Limitations

This section describes the existing software and documentation problems, any solutions or workarounds recommended to avoid the problems or reduce effects, and the limitations in the software:

- [Service Action Parameters Not Generated by Default](#)
- [Automatic Creation of Resources Using Advanced Policies](#)
- [Domain Names Cannot Have Single Character](#)
- [Use Only Mouse in Drawers from Configuration Canvas](#)
- [Use Calendar Control Type for Date and Time](#)
- [Return No Numeric Value for Query Based Drop-down Elements](#)
- [Intermittent Error While Importing Workspace in Design Studio](#)
- [Implementation Assets Details Not Displayed When Navigating From Initiative Items](#)

Service Action Parameters Not Generated by Default

Problem: The four data elements **Subject ID**, **Customer ID**, **Commercial ID**, and **Service Address** are not generated in the cartridge generated by the DevOps engine. When you do not have these data elements as design parameters, these are not added in the service action parameters to the cartridge by default.

Solution: Four data elements **Subject ID**, **Customer ID**, **Commercial ID**, and **Service Address** are preloaded in the **Data Elements** application in Solution Designer. You must configure these four data elements as design parameters in those specifications for which you want to generate service action parameters by the DevOps engine. When you publish the initiative that contains these specifications, the DevOps engine adds the service action parameters in the cartridges.

Automatic Creation of Resources Using Advanced Policies

Problem: When you define a standard policy for creating a resource, Solution Designer creates the resource automatically only for Logical Device specification, Logical Device Account specification, Property Location specification, Telephone Number specification, and Place. Solution Designer does not create the resource automatically for all the other specifications.

Solution: For all the other specifications, you can define an advanced policy for creating a resource and write the implementation code in the extended designer class for creating a resource.

Domain Names Cannot Have Single Character

Limitation: In Solution Designer, domain names must have more than one character and cannot have a single character.

Use Only Mouse in Drawers from Configuration Canvas

Limitation: In the PSR model or specification configuration, when you click + symbol using the mouse or by pressing F2 key using the keyboard, you must use the mouse to navigate within the **New component** drawer or the *specifications* drawer that it opens. The *specifications*

include resource facing services, resources, and locations. The + symbol appears in the canvas, component, or specification.

You must use only the mouse in the following scenarios:

- Select **+ New component** in the **New component** drawer.
- Select an existing specification or create a new specification in the *specifications* drawer.

Use Calendar Control Type for Date and Time

Problem: In the Data Elements page, when you use **Text Field** as **Control Type** for **Time**, and **Date and Time** data types, UIM run-time user interface displays those fields as plain text fields and does not provide the calendar icon and format.

Workaround: In the Data Elements page, select **Calendar** as the **Control Type** for **Time**, and **Date and Time** data types.

Return No Numeric Value for Query Based Drop-down Elements

Problem: In **Data Elements** with **Dropdown** as **Control Type**, **Query based** as **Data values**, when the **SQL** or **JPQL** query that you write returns a numeric value, UIM run-time user interface displays *Invalid Query* error message.

Workaround: When you write the **SQL** or the **JPQL** query for query based drop-down data elements, ensure that it returns only a string value.

Intermittent Error While Importing Workspace in Design Studio

Problem: When you import Design Studio workspace into Design Studio and have multiplicity configured for nested Feature Group data elements in that workspace, you may receive *Maximum multiplicity conflict error* in Design Studio.

Solution: You may need to close the Design Studio environment and reopen it.

Implementation Assets Details Not Displayed When Navigating From Initiative Items

Problem: When you navigate to any domain from the **Initiative Items** tab in the Initiatives details page, **Implementation Assets** section does not display any assets that have been configured.

Solution: You can navigate to the domain directly from the **Domains** application and **Implementation Assets** section displays the assets that have been configured.

Deprecated Features

This section lists the deprecated and removed features in Service Catalog and Design 8.1.0 release.

Secure Model Variables Deprecated

Support for setting the model variables as sensitive has been deprecated in the release 8.1.0.

2

Design Studio Platform

This chapter provides release notes for Oracle Communications Design Studio Platform.

- [Known Problems](#)

Known Problems

This section describes existing software and documentation problems and any workarounds recommended to avoid the problems or reduce effects:

- [Discrepancies in the Technical Action Generation Design Pattern](#)

Discrepancies in the Technical Action Generation Design Pattern

BugDB: 29917205

Problem: Technical Action Generation design pattern may not work in an end to end scenario because of naming and action codes discrepancies.

Workaround: While using the Technical Action Generation Design Pattern to generate Technical Action definitions from existing CSDLs, the name of the Technical Action should be set with an appropriate name. In addition, remove the Specialized action codes that are not needed from the **Action Codes** tab and mappings configured for the elements in the technical action **Data Map** for the Specialized action codes.

3

Design Studio for ASAP

This chapter provides release notes for Design Studio for ASAP.

- [Known Problems](#)

Known Problems

This section describes existing software problems and any workarounds recommended to avoid the problems or reduce effects:

- [Activation Test Case Hangs and Fails for Design Studio in Systems with Multiple Interfaces or IP Addresses](#)
- [NEP Deployment Fails Intermittently](#)

Activation Test Case Hangs and Fails for Design Studio in Systems with Multiple Interfaces or IP Addresses

BugDB: 21694483

Problem: The provisioning of Activation test cases hangs and fails (with or without VPN), if the system hosting Design Studio is configured with more than one Network Interface or IP address, or if the Hostname of the system maps to a network address that the WebLogic server cannot contact.

Workaround: Add the following to the **eclipse.ini** file: **"-Dweblogic.corba.client.bidir=true"**

NEP Deployment Fails Intermittently

BugDB: 22960169

Problem: Unable to establish a connection to Oracle WebLogic Server through the NEP map option (NEP deployment fails intermittently).

Workaround: Perform the following:

- Ensure that the base cartridge project (the source project which contains the NEs) is in an open state.
- Ensure that the **META-INF/activation-model.xml** file has been generated. Otherwise, perform a full clean and build to regenerate the **activation-model.xml** file.

NEP deployment fails intermittently if the **activation-model.xml** file corresponding to the mapped NE has not been generated and saved to the **cartridgeBin/cartridgeBuild** location.

4

Design Studio for Inventory

This chapter provides release notes for Design Studio for Unified Inventory Management (UIM).

- [Known Problems](#)

Known Problems

This section describes existing software and documentation problems and any workarounds recommended to avoid the problems or reduce effects:

- [Sensitive Option on Details Tab Not Working](#)

Sensitive Option on Details Tab Not Working

Bug DB: 31486882

Problem: If you select **Sensitive** on the **Details** tab in Design Studio to create password-like behavior for a characteristic, the corresponding field in UIM isn't protected as expected.

Workaround: Select **Sensitive** on the **Settings** tab instead of the **Details** tab. The **Settings** tab version of **Sensitive** works correctly.

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Design Studio for Network Integrity

Design Studio for Network Integrity release includes general quality improvements.

6

Design Studio for Order and Service Management

This chapter provides release notes for Design Studio for Order and Service Management (OSM).

- [Known Problems](#)

Known Problems

This section describes existing software problems and any workarounds recommended to avoid the problems or reduce effects:

- [Order Template Doesn't Inherit "Do Not Rollback" Setting](#)
- [OSM Solution Sometimes Fails to Build Due to SocketTimeout Exception](#)
- [Composite Cartridge Behavior Details are Inconsistent in Task Level](#)
- [Composite Data View is Inconsistent Behavior on Task and Order Level](#)
- [Order Level Data Instance Behavior Configuration is Not Getting Refreshed in Task](#)
- [Behavior Defined for Node Should Not be Editable in Task Editor Composite Data](#)

Order Template Doesn't Inherit "Do Not Rollback" Setting

BugDB: 22203278

Problem: When you set **Do not rollback during undo** in a component's order template, the main order template does not inherit the setting.

Workaround: Manually set the value for **Do not rollback during undo** in the order template.

OSM Solution Sometimes Fails to Build Due to SocketTimeout Exception

BugDB: 22691246

Problem: OSM Solution Automation build fails periodically due to a SocketTimeout exception.

Workaround: Increase the value of **Separate JRE timeout** setting to **40000**.

To increase the value of the **Separate JRE timeout** setting:

1. In Design Studio, select **Preferences** from the **Window** menu.
2. In the Preferences navigation tree, select **Ant**.
3. In the **Separate JRE timeout (ms)** field, enter **40000**.
4. Click **OK**.

Composite Cartridge Behavior Details are Inconsistent in Task Level

BugDB: 28518246

Problem: Behaviors that are inherited from the Composite Cartridge view are not accurately loaded at the Composite Data view window of a manual or an automated task. There is no functional loss because of this issue, but you cannot see accurate data in this behavior.

Workaround: You can go to the Composite Cartridge view to view the accurate behavior data.

Composite Data View is Inconsistent Behavior on Task and Order Level

BugDB: 28526024

Problem: The Behavior window is greyed out at Task level, but at Order level it is not greyed out. Even though the Behavior window is not greyed out at Order level, the system does not allow you to add any behaviors. Therefore, this does not affect any functionality.

Order Level Data Instance Behavior Configuration is Not Getting Refreshed in Task

BugDB: 28531244

Problem: Task level data behaviors are not getting refreshed.

Workaround: Close the tasks for which behaviors are not refreshed and then reopen them.

Behavior Defined for Node Should Not be Editable in Task Editor Composite Data

BugDB: 28712854

Problem: The Composite Data View tab allows you to modify a behavior that is added in task data editor. The Composite Data View tab only shows behavior details (without populating Node element details) which are added in task data editor.

In general, you can manipulate behavior data in the Task Data window at the Task level. But, because of this issue, you can also modify behaviors from the Composite Data view. There is no functional loss in modifying data at the Composite Data view level. Data is stored accurately even after modifying behaviors at the Composite Data view level.