

Oracle® Communications Design Studio

Release Notes

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Oracle Communications Design Studio Release Notes, Release 7.4.1

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Preface

This document provides release notes for Oracle Communications Design Studio Platform and all Design Studio features. Each chapter describes, if applicable for this release, Design Studio new features, fixes, and known problems.

Oracle recommends that you install the latest version of Design Studio to ensure the highest level of compatibility across application releases and to take advantage of improvements that have been introduced for 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 Design Studio.

Related Documents

For more information, see the following documents in the Oracle Communications Design Studio documentation set:

- *Design Studio Installation Guide*: Describes the requirements and procedures for installing Design Studio.
- *Design Studio System Administrator's Guide*: Describes information about administering Oracle Communications Design Studio. This guide includes information about configuring deployment settings for test environments, backing up and restoring Design Studio data, and automating builds.
- *Design Studio Concepts*: Explains how to use Design Studio to manage and configure data for use across Oracle Communications service fulfillment products. This guide provides a conceptual understanding of Design Studio.
- *Design Studio Developer's Guide*: Provides common solution development guidelines and best practices for cartridge design and development. The recommendations included in this guide apply to all the solutions that leverage one or more of the supported Oracle Communications applications.
- *Design Studio Security Guide*: Provides an overview of security considerations, information about performing a secure installation, and information about implementing security measures in Design Studio.
- *Design Studio Help*: Provides step-by-step instructions for tasks you perform in Design Studio.

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Document Revision History

The following table lists the revision history for this book.

Version	Date	Description
F18561-01	June 2019	Initial release.

Design Studio Platform

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

- [New Features](#)
- [Fixes in This Release](#)
- [Known Problems](#)

New Features

This section includes information about new features introduced in release 7.4.1:

- [Technology Updates](#)
- [Rename and Delete Operations of Conceptual Model Import](#)
- [SNO Design Environment Enhancement and Consolidation](#)
- [Decoupled UIM and NI SDK Installation with Design Studio](#)
- [Configure Technical Action Parameters with Current Service Configuration Information](#)

Note: The Design Studio Online Help was not updated for the features delivered in this release.

Technology Updates

Design Studio 7.4.1 is compatible with Oracle Enterprise for Eclipse version 12.2.1.9 (or later), based on Eclipse Photon 4.8.0. Design Studio leverages the new features and capabilities of Eclipse version 4.8.0 to provide a better environment for solution designers and software developers.

Design Studio (7.4 and later) no longer supports Automation Builds for Solaris environment because, Eclipse Oxygen 4.7.0 (and later) no longer provides Solaris SDK files.

Rename and Delete Operations of Conceptual Model Import

Design Studio 7.4.1 enhances the import of conceptual model entities from external catalogs. These enhancements allow the conceptual model changes to synchronize directly with Design Studio, thus reducing the occurrence of any misalignments, while renaming or deleting the existing entities, or elements.

The enhancements in Partial import are:

- Renames the existing entities or elements if their names are changed and the IDs are not changed, in the input file
- Renames the manually created entities if new names are provided in the input file and the IDs in input file are same as the IDs in **.studioModel** exchange format export file

The enhancements in Complete import are:

- Renames the existing entities or elements if their names are changed and the IDs are not changed, in the input file
- Renames the manually created entities if new names are provided in the input file and the IDs in input file are same as the IDs in **.studioModel** exchange format export file
- Deletes the existing elements that are created manually or through import, if their information is missing in the input file
- Deletes the existing entity references (such as components to CFS/RFS/Resource, other reference relations to CFS/RFS/Resource) that are created manually or through import, if their information is missing in the input file

SNO Design Environment Enhancement and Consolidation

This enhancement improves the presentation and overall functionality of design patterns used for developing conceptual models for Service and Network Orchestration (SNO) solutions, enabling you to create complete conceptual models more quickly.

Beginning with 7.4.1, these design patterns are packaged with Design Studio. The revised packaging simplifies the configuration of Design Studio for developing SNO solutions, and ensures consistency of the environment.

Decoupled UIM and NI SDK Installation with Design Studio

Design Studio 7.4.1 installation no longer includes default Unified Inventory Management (UIM) and Network Integrity (NI) SDKs. You can install and configure the latest UIM and NI SDKs separately from the respective application packages. This enables you to add the versions of UIM and NI SDKs that are appropriate to your Design Studio environment and identify the corresponding application versions while building the cartridges.

Configure Technical Action Parameters with Current Service Configuration Information

Using action parameter bindings within a conceptual model, you can now configure technical action parameters with attributes from a current, or *before*, service configuration in addition to a planned, or *after*, service configuration.

The ability to provide current configuration values enables technical action signatures to contain both *before* and *after* information, allowing downstream systems to directly deal with the change in parameter values, or to support a rollback operation to the original values if required.

Fixes in This Release

[Table 1–1](#) lists the Design Studio Platform release 7.4.1 fixes and provides a brief description of the resolution.

Table 1–1 Fixes in Design Studio Release 7.4 Platform

Service Request (SR) Number	BugDB Number	Description
n/a	29244543	While referencing a data dictionary root element as child parameter under a structured parameter, sometimes the values of multiplicity in the child parameter are not inherited from the root element. This was fixed by modifying the logic to consider the inherited multiplicity values of child parameter from its parent data element.

Known Problems

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

- [CMT Tool Download Information is Incorrect](#)
- [XML Catalog Files Appear in the Problems View](#)
- [Help Page is Not Displayed from Import XF Wizard](#)
- [Discrepancies in the Technical Action Generation Design Pattern](#)

CMT Tool Download Information is Incorrect

BugDB: 26550193

Problem: The *Design Studio Developer's Guide* incorrectly mentions that the CMT tool can be downloaded directly from the e-delivery site. Instead, the CMT tool is bundled within the Design Studio media pack.

XML Catalog Files Appear in the Problems View

BugDB: 24821492

Problem: The Problems view displays errors for invalid XML catalog files, such as `.xsd`, `.xml`, `.xsl`, `.html`, `.jsp`, and `.wsdl` files. While these errors may not impact the project compilation, Oracle recommends that you correct these files.

Workaround: Perform a clean and build of all projects in the workspace.

Help Page is Not Displayed from Import XF Wizard

BugDB: 28648349

Problem: Clicking (?) from the Import XF wizard does not display the Help page.

Discrepancies in the Technical Action Generation Design Pattern

BugDB: 29917205

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

Workaround: Name of the Technical action can be changed in the design pattern by giving an appropriate name. The Specialized action codes that are not needed can be removed from the **Action Codes** tab and mapping can be done for the elements in the technical action Data Map for the Specialized Action codes.

Design Studio for ASAP

This chapter provides release notes for Oracle Communications 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 Deploy 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 Deploy Fails Intermittently

BugDB: 22960169

Problem: Unable to establish a connection to Oracle WebLogic Server through the NEP map option (NEP deploy 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 deploy fails intermittently if the **activation-model.xml** file corresponding to the mapped NE has not been generated and saved to the **cartridgeBin/cartridgeBuild** location.

Design Studio for Inventory

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

- [New Features](#)
- [Fixes in This Release](#)

New Features

This section includes information about new features introduced in release 7.4.1.

Note: The Design Studio Online Help has not been updated for the features delivered in this release.

Diagram Specifications for UIM NRM Operations

Design Studio 7.4.1 introduces Diagram Specifications that filter the related specifications, which are displayed in the UIM Diagram Pallet. This specification is extended from Network Specification. A new template, Diagram Template, is introduced in Design Studio that helps in displaying all the devices in the Planning Diagram page in the runtime application.

You can perform the following tasks on the Diagram Specification:

- Create a new Diagram Specification. To create a new Diagram Specification, you need to add the following dependency cartridges:
 - ora_uim_model
 - ora_uim_basetechnologies
 - ora_uim_basetags
- Add **diagramnetwork** tag to the newly created Diagram Specification, which helps to display the specification in runtime application
- Add base project to the specification
- Add related specifications to control the specification drop-down list in the runtime application
- Add required rules to the specification

Fixes in This Release

[Table 3–1](#) lists the UIM fixes for Design Studio Platform release 7.4.1 and provides a brief description of the resolution.

Table 3–1 *Fixes in UIM for Design Studio Release 7.4.1*

Service Request (SR) Number	BugDB Number	Description
n/a	29638193	In Design Studio, an option Enable Search is added in Settings tab that appears when you select the Control Type as Text . Selecting this option provides a browse option in the runtime environment, which opens a pop-up window to search using the text entered.
n/a	29530881	Characteristics created in Design Studio with Primitive Type as DateTime now appears in the runtime environment with the calendar pop-up. This calendar pop-up now allows you to select time of which the values can be saved as Date and Time .

Design Studio for Network Integrity

Oracle Communications Design Studio for Network Integrity release 7.4.1 includes several general quality improvements delivered in this release.



Design Studio for Order and Service Management

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

- [New Features](#)
- [Known Problems](#)
- [Design Studio Cartridge Migration](#)

New Features

This section includes information about new features introduced in release 7.4.1.

Note: The Design Studio Online Help has not been updated for the features delivered in this release.

Support for Enabling and Disabling Processing of Revisions on In-flight Revision Orders

With the processing of revisions on in-flight revision orders enabled, OSM can process revisions on an order while it is still processing a revision on the same order that it received earlier, without having to wait for the ongoing revision order to complete processing.

By default, processing of revisions on in-flight revision orders is enabled for cartridges with target version 7.4.0.0.0.

With this release, support for disabling this functionality has been provided. To disable this functionality, you configure the Process Amendment transaction for the Amending order state. You configure the Process Amendment transaction for the Amending order state by removing the permission to the Amending - Process Amendment transaction for a selected role. For details about removing and granting permissions to transactions, see the topic about Configuring Order Lifecycle Policies in Design Studio Modeling OSM Processes Online Help.

Fixes in This Release

[Table 5–1](#) lists the OSM fixes for Design Studio Platform release 7.4.1 and provides a brief description of the resolution.

Table 5–1 Fixes in OSM for Design Studio Release 7.4.1

Service Request (SR) Number	BugDB Number	Description
n/a	28706381	While importing common data dictionary, the Project Upgrade wizard is not loaded. Instead, errors such as "Project Upgrade Error" are received at the end of import

Known Problems

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

- [The "Do not rollback during undo" Setting is Not Being Contributed](#)
- [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](#)
- [Clean "BUILD FAILED" with java.nio.file.InvalidPathException while running config_all](#)

The "Do not rollback during undo" Setting is Not Being Contributed

BugDB: 22203278

Problem: In solutions where the order template is contributed from order components, the data element's "Do not rollback during undo" setting is not inherited by the order template.

Workaround: Manually set the value of the data element's "Do not rollback during undo" property on 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.

Clean "BUILD FAILED" with `java.nio.file.InvalidPathException` while running `config_all`

BugDB: 29840485

Problem: After running the target `config_all` to configure WebLogic resources for O2A 2.1.2 cartridges, the following error is thrown:

```
<WorkspaceLoc> \OracleComms_OSM_O2A_Configuration \OSM.O2A.EmulatorsBuild.xml:20:
java.nio.file.InvalidPathException: Illegal char <*> at index 89:
<WorkspaceLoc> \OracleComms_OSM_O2A_Configuration\build\**.ear
```

Workaround: Set **ANT_HOME** to **ant-1.9.7** and then run `config_all` again.

Design Studio Cartridge Migration

If you upgrade to Order and Service Management 7.x from a prior version of OSM and your cartridges were developed with OSM Administrator tool, Oracle recommends that you migrate your cartridges into Oracle Communications Design Studio. Use Design Studio as the tool to design and deploy OSM 7.x cartridges. The recommended migration procedure, common migration issues, and issue resolutions are documented

in *Design Studio Order and Service Management Cartridge Migration Guide* for release 7.3.2, which is available on Oracle Help Center:

<http://docs.oracle.com/en/industries/communications/design-studio/index.html>

Note: If your cartridges do not require ongoing modification, you can export them from the current version (pre-7.x) and import them into OSM 7.x using the XML Import/Export tool without using Design Studio. However, Oracle recommends that you migrate all cartridges to Design Studio, unless they do not need any modification or re-deployment.
