

Oracle® Communications Unified Inventory Management

What's New

Release 7.4

E93986-03

May 2018

This document describes the enhancements that are delivered in Oracle Communications Unified Inventory Management (UIM) patches.

Enhancements in UIM 7.4.0.2 (Patch 28168421)

The following sections describe the enhancements delivered in this patch. The UIM Help and product documentation were not updated for the enhancements delivered in this patch.

UIM Compliance Tool

UIM now includes the UIM compliance tool. The UIM compliance tool captures a snapshot of your UIM configuration and evaluates it against established rules. These rules are based on best practices and guidelines using which the compliance tool analyzes the UIM configuration and generates an evaluation result that enables you to optimally configure your UIM environment.

The UIM compliance tool captures snapshots of the following:

- WebLogic domain
- UIM configuration parameters
- Database configuration parameters

The UIM compliance tool is packaged with the UIM software, which you can download from the My Oracle Support website at:

<https://support.oracle.com>

Setting Up the UIM Compliance Tool

To set up the UIM compliance tool:

1. Download the **compliance-1.2.1.zip** file.
2. Create a local directory; for example, *Compliance_Home*.
3. Extract the contents of the **compliance-1.2.1.zip** file into the *Compliance_Home* directory.
4. Download the required third-party software for the compliance tool by doing the following:
 - Navigate to the *Compliance_Home/config* directory and update the **proxy.settings** file to include any proxy settings that are required to access the Internet.

- Add the Ant binary directory to the PATH environment variable by doing one of the following:
 - On Windows, run the following command:


```
set %PATH%=%ANT_HOME%/bin;%PATH
```
 - On Linux, run the following command:


```
export PATH=$ANT_HOME/bin:$PATH
```
 - Navigate to the *Compliance_Home/bin* directory and run the **ant** command, which downloads the required third-party software for the compliance tool.
5. Generate a **wlfullclient.jar** file by doing the following:
- Navigate to the *WL_HOME/server/lib* directory.
 - Run the following command to generate the **wlfullclient.jar** file in the *WL_Home/server/lib* directory (where *WL_Home* is the directory in which the WebLogic Server is installed):


```
java -jar wljarbuilder.jar
```
 - Copy the **wlfullclient.jar** file into the **Compliance_Home/lib** directory.

For more information, see the compliance tool documentation at the following location:

Compliance_Home/docs/installation.html

Running the UIM Compliance Tool

To run the UIM compliance tool:

1. Navigate to the *Compliance_Home/config* directory
2. Create a new **compliance.properties** file.
3. Copy the contents of the **compliance-sample.properties** file into the **compliance.properties** file.
4. In **compliance.properties** file, update the following properties with the UIM Administration Server details:

```
weblogic.hostname=WL_HostName
weblogic.port=WL_Port
weblogic.username=WL_UserName
```

where:

- *WL_HostName* is the host name of the WebLogic Administration Server.
 - *WL_Port* is the port number of the WebLogic Administration Server.
 - *WL_UserName* is the user name used to log in to the WebLogic Administration Server.
5. Navigate to the *Compliance_Home/bin* directory and do the following:
- On Windows, run the following script:
- ```
compliance.bat
```
- On Linux, run the following script:

compliance.sh

The compliance tool generates the evaluation results in the *Compliance\_Home/result* directory.

## Microsoft Edge Support

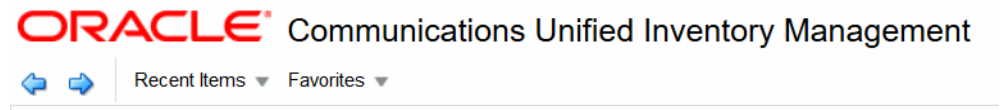
UIM now supports Microsoft Edge 40 or later.

## Back and Forward Buttons for Easier Navigation

UIM now includes Back and Forward buttons, which enable you to go back or forward one page at a time, respectively.

Figure 1 shows the newly added Back and Forward buttons.

**Figure 1** Back and Forward Buttons



## New Icons for Managing Activities in the Activity Summary Page

In the Activity Summary page of business interactions and engineering work orders, new icons have been added to represent the **Start**, **Complete**, **Reopen**, and **Complete and Next** options. These options were previously available in the **Actions** menu.

Figure 2 shows the newly added icons in the Activity Summary page.

**Figure 2** New Icons in the Activity Summary Page



You open the Activity Summary pages from the **Activity Details** tab in Summary pages of business interactions or engineering work orders with associated workflow templates.

## Assigning Resources to Termination Points Made Easier

You can now assign resource to termination points using the newly added **Terminate at Resource** list icons shown in Figure 3. The list icons have been added in the Termination Points section on the **General Information** tab of the Pipe Summary page.

**Figure 3 Terminate at Resource List Icons**

Pipe Summary - 1 - OC3 ?

General Information Capacity Hierarchy Associated Resources Consumers Groups and Infrastructure

▲ Pipe Information

ID 1

Name OC3

Description

☐ Versioned

☐ Gap Pipe

☒ Allow Secondary Enablement

Specification BATOC3FPipeSpec

► Other System

▲ Termination Points

View ▾ Detach

| ID | Name | Specification | Inventory Status | Termination Type | Location Name |
|----|------|---------------|------------------|------------------|---------------|
| 1  |      |               | Installed        | Provides         |               |
| 2  |      |               | Installed        | Provides         |               |

< Terminate at Resource

The **Terminate at Resource** list icons display a list of resource types that you can search for and assign to the termination points as shown in [Figure 4](#).

**Figure 4 Terminate at Resource List Icon Displaying Resource Types**

Pipe Summary - 85 - mn ?

General Information Capacity Associated Resources Consumers Groups and Infrastructure

▲ Pipe Information

ID 85

Name mn

Description

☐ Versioned

☐ Gap Pipe

☒ Allow Secondary Enablement

Specification BATOC3FPipeSpec

► Other System

▲ Termination Points

View ▾ Detach

| ID  | Name | Specification | Inventory Status | Termination Type |
|-----|------|---------------|------------------|------------------|
| 175 |      |               | Installed        | Provides         |
| 176 |      |               | Installed        | Provides         |

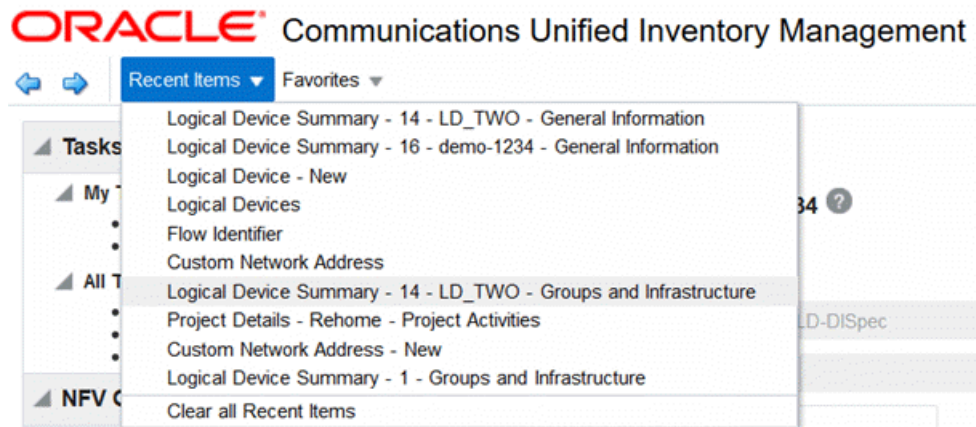
<

## Enhanced Recent Items Menu

The **Recent Items** menu now displays a list of all the pages (including the individual sections and subtabs within those pages) that you opened within the application. This enhancement enables you to quickly open the page that you want to view.

For example, if you are currently on the **Groups and Infrastructure** tab of the Summary page of a logical device with an ID of 14 and name LD\_TWO, and then if you navigate away to various different pages, you can return to the **Groups and Infrastructure** tab of the logical device (with an ID of 14) by selecting **Logical Device Summary - 14 - LD\_TWO - Groups and Infrastructure** from the **Recent Items** menu as shown in [Figure 5](#).


**Figure 5** Recent Items Menu



## Last Search Run is Now Automatically Saved

UIM now automatically saves the results of your last search and stores the results. If you navigate away from the Search page, and then return to it later, the Search Results section displays the results of your last search as **Saved Last Search** in the **Saved Search** menu as shown in [Figure 6](#). However, after you run a new search in a different Search page, the earlier search results in the previous Search page are no longer available and you can view the search results only in the latest Search page.

**Figure 6 Saved Search Menu Showing Saved Last Search**

Logical Device 

Search

ID Starts With

Network/Entity Location Starts With

Service Location Starts With

Device Identifier Starts With

Role Type

Inventory Status


Specification

Vendor Name Starts With


Assignment Status

Name Starts With










Role

Saved Search Saved Last Search 

Place

Search Reset Save... Add Fields 

Search Results

Actions View  Create  Clone  Duplicate  Create Range  Edit  Bulk Edit  Delete  Export  Detach

| ID     | Name    | Specification | Network/Entity Location | Device Identifier | Inventory Status | Assignment Status                                             | Model Number | Part Number | Vendor Name | Condition T |
|--------|---------|---------------|-------------------------|-------------------|------------------|---------------------------------------------------------------|--------------|-------------|-------------|-------------|
| 1      | 0534    | SanityLDSpec  |                         |                   | Installed        | Pending Unassign<br>Due On: 04/11/2018<br>Config: Se_07_5     |              |             |             |             |
| 150001 | 0975027 | SanityLDSpec  |                         |                   | Installed        | Pending Unassign<br>Due On: 05/04/2018<br>Config: Se_975027_5 |              |             |             |             |
| 150002 | 0975030 | SanityLDSpec  |                         |                   | Installed        | Assigned                                                      |              |             |             |             |

For example, consider a scenario where you run a search in the Logical Device Search page, and then navigate away to the Place Search page. Then, immediately you realize that you want to look at the Logical Device search results one more time, so you open the Logical Device Search page. In this case, the results of the last search that you ran are displayed in the Logical Device Search page.

Similarly, consider a scenario where you run a search in the Logical Device Search page, and then navigate away to the Place Search page and run a Place entity search. In this case, if you subsequently open the Logical Device Search page, the results of the last search run are no longer available in this page. The results of the last search are now displayed only in the Place Search page.

## Improved Usability of Entity Summary Pages

Prior to this enhancement, the entity Summary page was long and displayed a lot of information in a single page, which required considerable scrolling to see all the information about an entity.

In this enhancement, the entity Summary page has been redesigned to display information within newly added tabs to provide an uncluttered view of entity information. Each tab displays only specific data about the entity, which enables you to quickly see the desired information without scrolling through the entire page.

The Summary pages for the following entities have been redesigned:

- Logical Device
- Device Interface
- Logical Device Account
- Physical Device
- Physical Port
- Pipe
- Custom Network Address
- Equipment
- Telephone Number

- Party
- Place
- Network
- Inventory Group
- Custom Object

Figure 7 shows the redesigned Logical Device Summary page.

**Figure 7 Logical Device Summary Page**

The screenshot shows the 'Logical Device Summary' page for a '3-SDH Device'. The page has tabs for 'General Information', 'Associated Resources', 'Consumers', and 'Groups and Infrastructure'. The 'General Information' tab is active, showing details like ID, Name, Specification, Description, Network/Entity Location, and Device Identifier. Below this is a 'Logical Device Hierarchy' section with a tree view showing the device structure. At the bottom is a table with columns: Logical Device, Specification, Reservation, Condition, Inventory Status, Assignment Status, Consumers, Mapped To, IP Address, and Percent Consumed.

| Logical Device                     | Specification   | Reservation | Condition | Inventory Status | Assignment Status | Consumers | Mapped To | IP Address | Percent Consumed |
|------------------------------------|-----------------|-------------|-----------|------------------|-------------------|-----------|-----------|------------|------------------|
| BATSDH-STM4Dsec - 3-SDH Device     | BATSDH-STM4Dsec |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-STM4Dsec - STM4-1-1 (STM4)  | BATSDH-STM4Dsec |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC4-3-1-1 (VC3)   | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC3-4-1-1-1 (VC3) | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC3-4-1-1-2 (VC3) | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC3-4-1-1-3 (VC3) | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC4-3-1-2 (VC4)   | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC4-3-1-3 (VC4)   | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-VC3Dsec - VC4-3-1-4 (VC4)   | BATSDH-VC3Dsec  |             |           | Installed        | Unassigned        |           |           |            |                  |
| BATSDH-ETDsec - ET-2-1 (ET)        | BATSDH-ETDsec   |             |           | Installed        | Unassigned        |           |           |            |                  |

The entity Summary page contains the following tabs, which are common to most entity types:

- **General Information:** Displays basic information about the entity and the entity hierarchy. This tab is displayed by default when you open an entity Summary page.
- **Configurations:** Displays any entity configurations created for the entity. This tab is available only when the specification on which the entity is based includes a reference to a entity configuration specification.
- **Associated Resources:** Displays information about the parent entity, network nodes, and custom involvements.

Depending on the entity type, an entity Summary page displays additional or fewer subtabs in the **Associated Resources** tab. In case of a few specific entities, the **Associated Resources** tab displays information in subtabs, rather than in sections.

This tab contains the following subtabs/sections:

- **Parent Entity** (where Entity is the entity type; for example, Parent Logical Device, Parent Physical Device, and so on): Displays any associations with the parent entity.
- **IP Resources:** Displays IP resources assigned to the entity.
- **Network Nodes:** Displays any network nodes with which an entity is associated.
- **Grants Media Streams:** Displays any media streams with which the entity is associated.

- **Custom involvements:** Displays any custom associations defined for the entity with other entities that are not otherwise associated.
- **Consumers:** This tab contains the following sections:
  - **Assignments:** Displays information about the entities that are assigned to an entity.
  - **References:** Displays information about the entity references.
  - **Business Interactions:** Displays any business interactions with which the entity is associated.
- **Groups and Infrastructure:** This tab contains the following sections:
  - **Inventory Groups:** Displays any inventory groups to which the entity is associated.
  - **Roles:** Displays any roles that are associated with the entity.
  - **Places:** Displays any places that are associated with the entity.

You can personalize entity Summary pages by choosing to show or hide different sections or subtabs within the **General Information**, **Associated Resources**, **Consumers**, and **Groups and Infrastructure** tabs using the Personalization - Set Preferences window. See "[Personalizing Entity Summary Pages](#)" for more information.

## Ability to Set Default Landing Page

UIM now enables you to set any page that you frequently access as the default landing page. This page will be displayed first every time you log in to UIM.

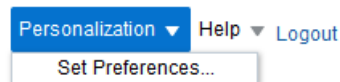
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**Note:** The default landing page setting is user-specific, which means that any change that you make is applied only to the current logged-in user.

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You set the landing page in the Set Preferences window, which you open by selecting **Set Preferences** from the newly added **Personalization** menu, shown in [Figure 8](#).

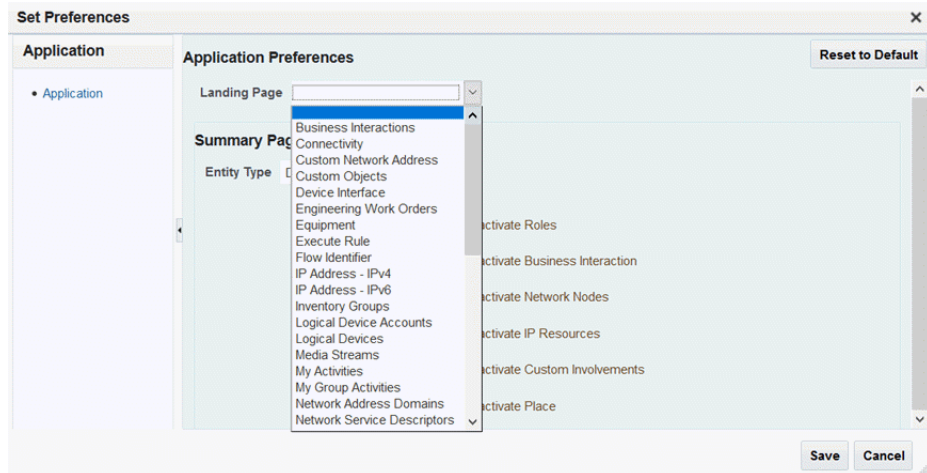
**Figure 8 Personalization Menu**



To set the landing page:

1. From the **Personalization** menu, select **Set Preferences**.  
The Set Preferences window is displayed.





2. From the **Landing Page** list, select the entity page that you want set as the landing page.
3. Click **Save**.

---

**Note:** To set the UIM Home Page as the default landing page, in the Set Preferences window, click **Reset to Default**.

---

## Personalizing Entity Summary Pages

You can now personalize the entity Summary pages to show or hide various subtabs and sections within different tabs. You personalize entity Summary pages in the Set Preferences window. [Figure 9](#) shows the summary page preferences in the Set Preferences window.

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**Note:** The Summary page preferences are user-specific, which means that any changes that you make are applied only to the current logged-in user.

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**Figure 9 Summary Page Preferences**

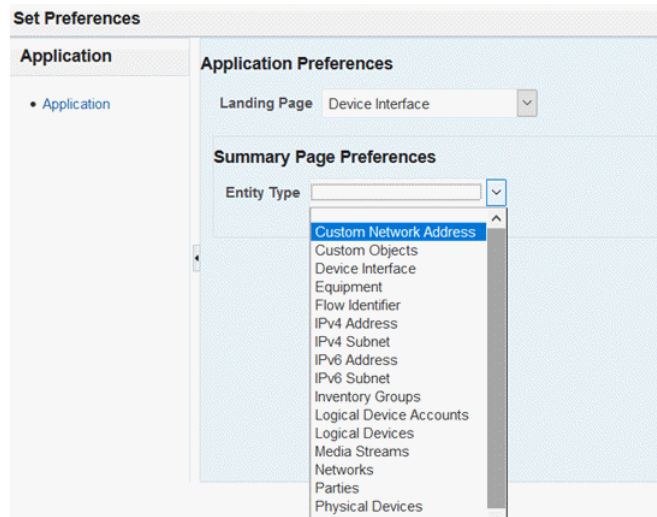
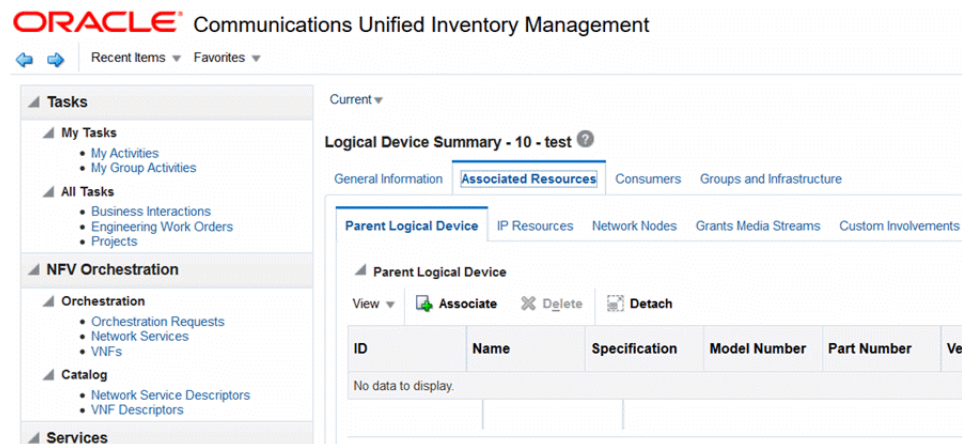


Figure 10 shows different subtabs in the **Associated Resources** tab of a Logical Device Summary page.

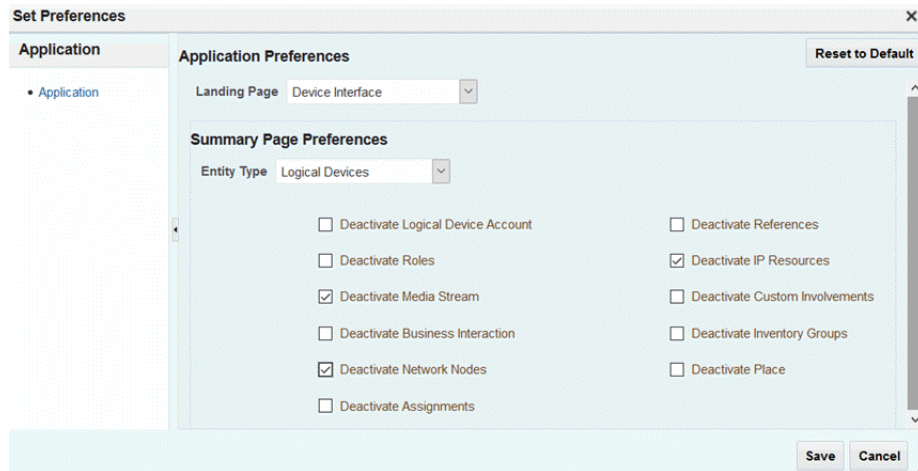
**Figure 10 Associated Resources Tab**



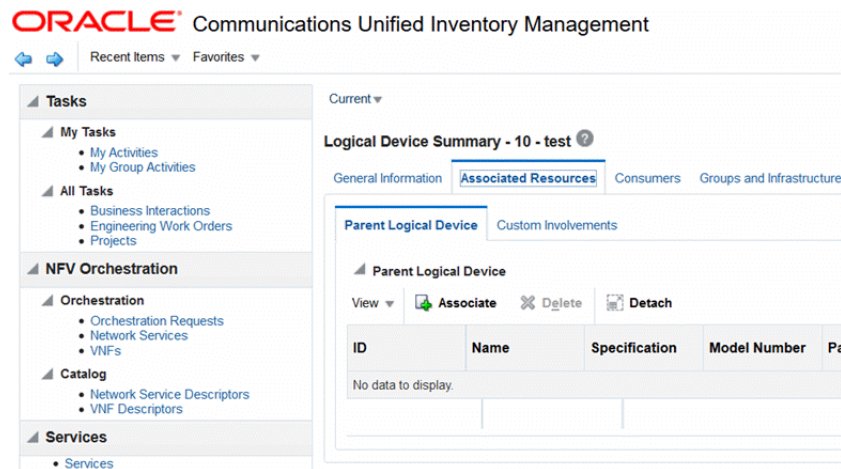
For example, you can personalize the Logical Device Summary page by hiding the **IP Resources**, **Network Nodes**, and **Grants Media Streams** subtabs in the **Associated Resources** tab.

To personalize the Logical Device Summary page by hiding the subtabs mentioned above:

1. From the **Personalization** menu, select **Set Preferences**.  
The Set Preferences window is displayed.
2. From the **Entity Type** list, select **Logical Devices**. The page displays the subtabs and sections that appear within different tabs in the Logical Device Summary page.



3. Select the **Deactivate IP Resources**, **Deactivate Network Nodes**, and **Deactivate Media Stream** check boxes, and then click **Save**.
4. From the **Recent Items** menu, reopen the Logical Device Summary page and click the **Associated Resources** tab, you will notice that the **IP Resources**, **Network Nodes**, and **Grants Media Streams** subtabs are now hidden.




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**Note:** To clear all the preferences for the entity Summary pages, in the Set Preferences window, click **Reset to Default**.

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## Personalizing the Entity Summary Pages By Setting System Properties

In addition to personalizing entity Summary pages from the UIM user interface, you can now personalize the entity Summary pages using the **system-config.properties** file.

The various sections and subtabs within tabs are referred to as portlets in the **system-config.properties** file. You can show or hide a portlet by specifying the portlet name and the name of the entity Summary page within which you want to show or hide the portlet.

In the **system-config.properties** file, use the following format to show or hide the portlets:

```
ui.entitysummary.portletName.deactivate=true
```

where:

- *entity* is the name of the entity within whose Summary page you want to show or hide the portlet
- *portletName* is the name of the portlet that you want to show or hide

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**Note:** The portlet settings that you make in the **system-config.properties** file are applied system-wide and affect all users.

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For example, to hide the Roles portlet in the Party Summary page, do the following:

1. Navigate to the *UIM\_Home/config* directory.
2. Open the **system-config.properties** file.
3. Add the following entry:

```
ui.partysummary.rolesportlet.deactivate=true
```

4. Save and close the **system-config.properties** file.

The Roles portlet is now hidden in the Party Summary page.

You can show or hide the following portlets (sections/subtabs) in the entity Summary pages:

- logicaldeviceaccountportlet
- ipresourcesportlet
- networknodesportlet
- mediaportlet
- custominvolvementsportlet
- serviceportlet
- assignmentsportlet
- referencesportlet
- biportlet
- inventorygroupsportlet
- rolesportlet
- placesportlet
- equipmentportlet
- partyportlet
- physicaldeviceportlet
- logicaldeviceportlet
- pipeportlet

- reservationsportlet
- conditionsportlet
- subnethierarchyportlet
- networkedgeportlet

## Setting Column Preferences in Tables of Entity Search and Summary Pages

With this enhancement, each UIM user can now set column preferences to reorder, show and hide columns in tables of entity Search and entity Summary pages.

See the UIM Help for more information about working with tables.

## Ability to Create a Connectivity and Associate it to a Network Edge

Prior to this enhancement, when associating a connectivity to a network edge in a network, you could only search for connectivities and not create them.

With this enhancement, you can now create connectivities, and then associate them to network edges in a network.

A new **Create** button has been added in the Network Edge Connectivity Associate page. This page is opened when you right-click an edge and select **Associate Connectivity** in the **Network Topological View** subtab of the **Visualization** tab in the Network Summary page. [Figure 11](#) shows the newly added **Create** button.

**Figure 11 Newly Added Create Button**

The screenshot shows the 'Network Edge Connectivity Associate' page. It features a 'Search' section with various filters: Identification, A Network/Entity Location, Z Network/Entity Location, A Service Location, Z Service Location, Description, Status, Technology, Specification, Rate Code, Function, Serial Number, Transmission Signal Type, Network Name, and Network Edge Name. Each filter has a 'Starts With' dropdown menu. Below the search filters is a 'Search Results' section. At the bottom of the page, there is a 'View' dropdown menu and a 'Create' button (represented by a blue icon) next to a 'Detach' button (represented by a red icon).

Clicking the **Create** button opens the Create Connectivity page, which enables you to create a connectivity. [Figure 12](#) shows the Create Connectivity page.

**Figure 12 Create Connectivity Page**

**Create Connectivity**

Connectivity - New ?

**Connectivity**

\* Technology

Specification

Identification Format

\* A Network/Entity Location

\* Z Network/Entity Location

Rate Code

Function

Serial Number

\* Quantity

☒ Assign Contiguous Serial Number

## Prepopulated Termination Points When Running Path Analysis

Prior to this enhancement, when running path analysis, you were required to either manually enter the values in the **Source Type** list, **Source ID** field, **Target Type** list, and **Target ID** field, or you had to search for the source and target entities using the entity Search page.

In this enhancement, when you run path analysis, the **Source Type** list, **Source ID** field, **Target Type** list, and **Target ID** field are prepopulated in the Path Analysis page. You can modify the prepopulated values for the source and target to perform partial path analysis between intermediate nodes.

This feature is especially useful for scenarios where the pipe terminates on multiple shared resources and manually entering values or searching for the source and target entities is time-consuming.

For example, if a pipe terminates on the source logical device demoLD1 with ID 525009 and on the target physical device demoPD1 with ID 300002, then when you run path analysis, the Path Analysis Search page displays prepopulated values for both the source and target as shown in [Figure 13](#).

**Figure 13 Path Analysis Page Showing Prepopulated Values for Source and Target**

Path Analysis- 600011 - demoPipe1 ?

▲ Path Analysis Search

|          | Source           | Intermediate | Target            |
|----------|------------------|--------------|-------------------|
| Type     | Logical Device ▼ | Equipment ▼  | Physical Device ▼ |
| ID       | 525009 🔍         | 🔍            | 300002 🔍          |
| Name     | demoLD1          |              | demoPD1           |
| Bit Rate |                  | UOM ▼        | Quantity 1 ▲ ▼    |

## Support for Canceling a Pending Configuration Version in Between Two In-Progress Configuration Versions

In this patch, the multiple pending configuration functionality has been enhanced, which now enables you to cancel a pending configuration version that is in between two in-progress configuration versions.

You can also disconnect a service using the UIM Service Fulfillment Web Service. When you disconnect a service using the UIM Service Fulfillment Web Service, all the configuration versions on the service transition to Canceled status, and an additional configuration version is created with the current date after the service configuration version that is in Completed status.

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**Note:** If a service has multiple pending configurations, you cannot cancel the first service configuration version, regardless of the status of the resource assignments. However, if a service has only one service configuration, then you can cancel that service configuration version.

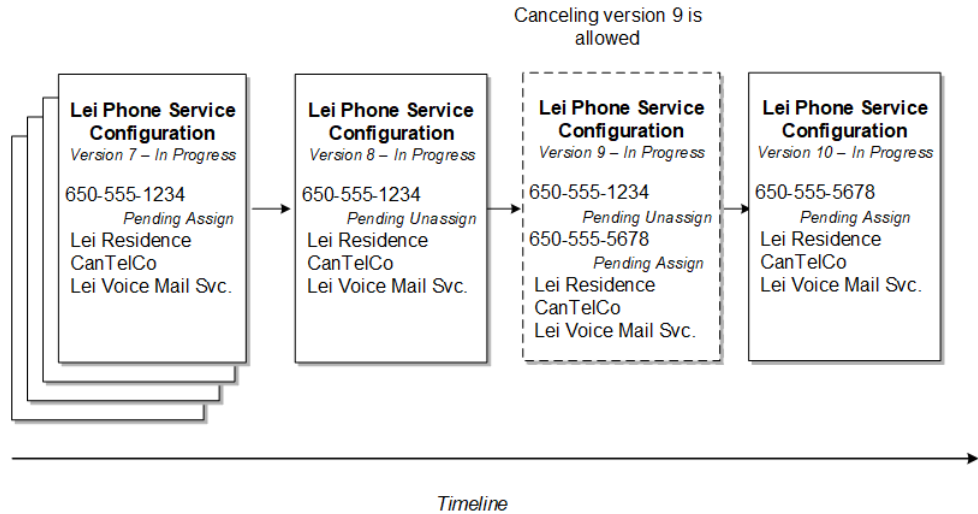
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For example, in [Figure 14](#), you can cancel the pending configuration version 9 (shown in dashed box) because there are no resource assignment changes made in the configuration version 10.

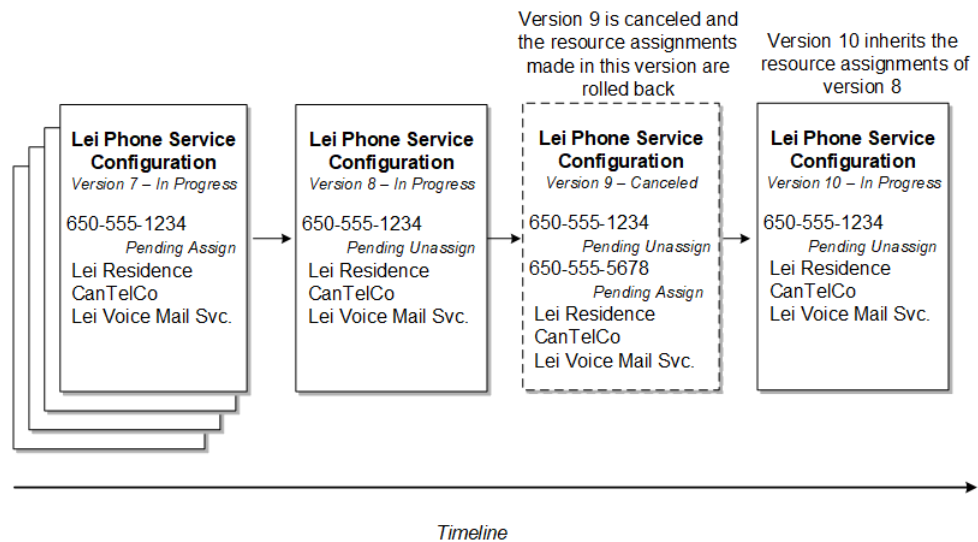


**Figure 14 Canceling a Pending Service Configuration Version**



After the configuration version 9 is canceled, all the assignment changes that were made in version 9 are rolled back, and the configuration version 10 inherits the resource assignments of the configuration version 8, as shown in [Figure 15](#).

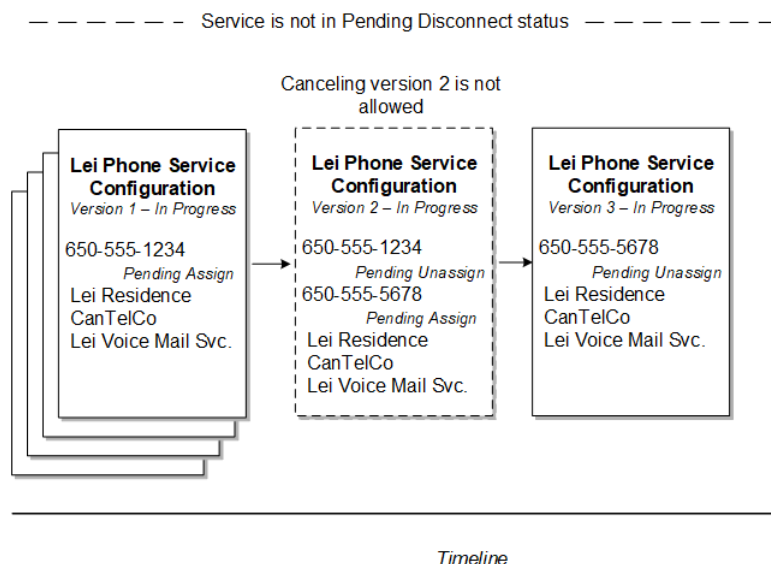
**Figure 15 Resource Assignment Status After a Pending Service Configuration Version is Canceled**



UIM does not allow you to cancel a service configuration version on a service that is not in Pending Disconnect status if there are resource assignment changes in the future-dated service configuration version. For example, in [Figure 16](#), you cannot cancel service configuration version 2.

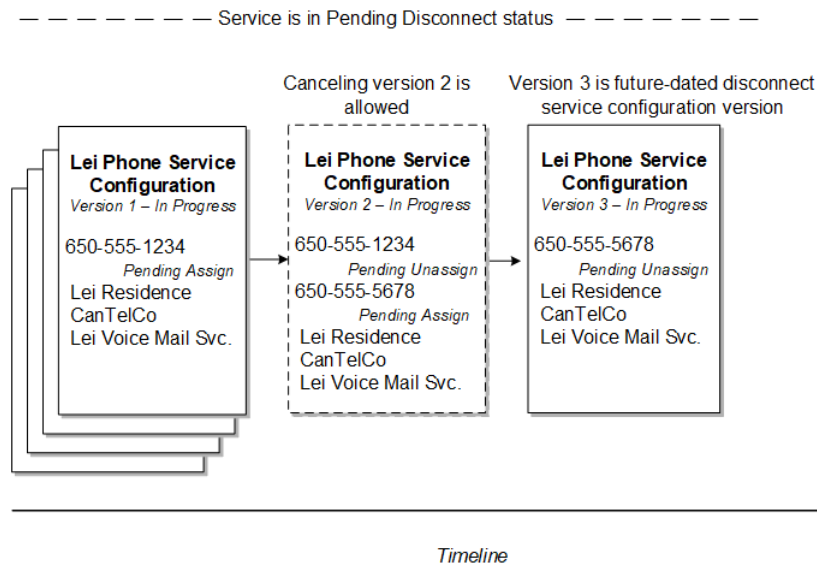


**Figure 16 Canceling a Pending Configuration on a Service that is not in Pending Disconnect Status**



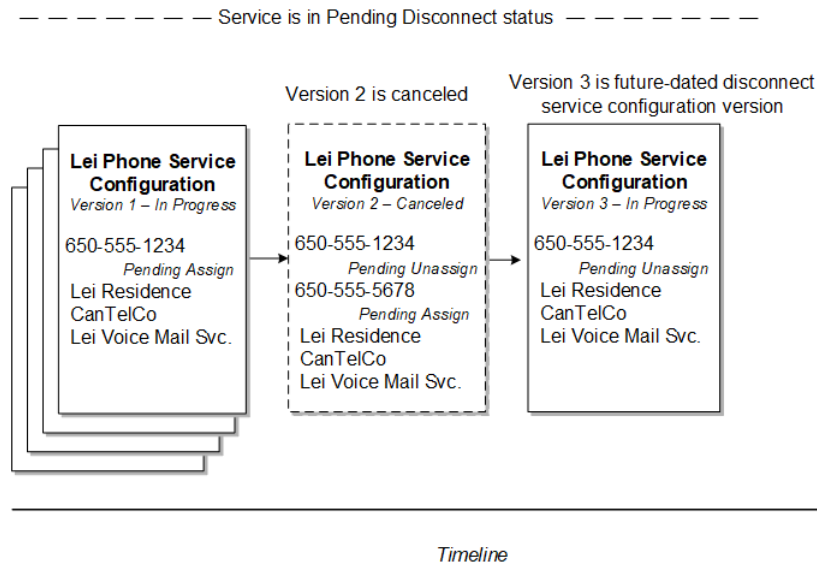
UIM allows you to cancel service configuration version 2 on a service that is in Pending Disconnect status, even if resource assignments are updated and are in Pending Unassign status in the future-dated disconnect service configuration version 3. For example, you can cancel service configuration version 2 in [Figure 17](#), which shows the resource assignment status before version 2 is canceled on a service that is in Pending Disconnect status.

**Figure 17 Canceling a Pending Configuration on a Service in Pending Disconnect Status**



[Figure 18](#) shows the resource assignment status after the service configuration version 2 is canceled on a service that is in Pending Disconnect status.

**Figure 18 Resource Assignment Status After a Pending Configuration is Canceled on a Service in Pending Disconnect Status**



## Enhancements in UIM 7.4.0.1 (Patch 27728240)

The following section describes the enhancement delivered in this patch.

### Enhanced UIM Purge Functionality

In previous releases, UIM supported the purging of only service entities. In other words, UIM supported the purging of entities of only one purge type: Service.

In this release, the UIM purge functionality has been enhanced and now in addition to service entities, you can also purge entities of the following purge types:

- Service Configuration Version
- Logical Device
- Logical Device Account
- Party
- Place
- BI/EWO (business interaction/engineering work order)

The enhanced purge functionality enables you to purge UIM entities using purge scripts that are specific to each entity. The enhanced purge functionality includes new mandatory and optional arguments that you use with purge operations for the entity purge types mentioned previously.

The entity purge process also purges entities that are referred as entity link characteristics. UIM provides the `elcharScripts.sql` script, which you can use to prevent the deletion of entities that are referred as entity link characteristics.

See the section on “Purging UIM Entities” in the chapter, “Monitoring and Managing Unified Inventory Management” in *UIM System Administrator’s Guide* for more information about the enhanced purge functionality.

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