Dynamic Configuration

Beginning with Release 3.3, V2PC supports reconfiguring of deployed applications and resource service level agreements (SLAs) from the V2PC GUI even while the application is in In Service state. Users are allowed to modify the configuration of a deployed application based on the change policy defined by the application type for each attribute in the application.

A change policy is defined for each attribute to determine the operational states during which the attribute can be changed. If an attribute has no change policy defined, the attribute cannot be changed through the V2PC GUI while the application is in In Service state.

Configuring Deployed Applications

To configure a deployed application while still in In Service state:

**Step 1**  From the navigation menu, choose Application Deployment Manager > Deployed Applications. The Deployed Applications page opens and displays a list of applications.

**Step 2**  Place a check beside the application to select it, then click Edit (pencil).

**Figure 6-1  Deployed Applications Page, Edit Icon**

**Step 3**  Change one of the following categories in a role:
- Desired nodes in Resource SLA section
- State of one or more nodes in Nodes Info section
• Value of one or more attributes in Configuration section

**Note**
You can change only one of the categories in a role or across the roles in an application. When one of the categories is changed, the other categories in the same role and in other roles are disabled. To change the value of another category, you must first click **Reset** to reverse the current change.

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**Figure 6-2 Modified Application Configuration**

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**Step 4**
Click **Finish** to save the new configuration. A progress bar appears near the changed category to show that a related change is underway in the V2PC server.

For example, if the number of nodes is being changed from 1 to 2, V2PC dynamically reallocates an idle node from that zone to the application being modified.

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**Reapplying a Resource SLA**

When V2PC enables or deploys an application and the requested number of nodes is not available, V2PC determines the minimum number of nodes required for the role and allocates that number.

If that number does not satisfy the service level agreement (SLA) for the application, you can add nodes to the deployed application later, as follows:

**Step 1**
From the navigation menu, choose **Application Deployment Manager > Resources > Providers** and create the required number of nodes under the zone to which the application is assigned.

**Step 2**
From the navigation menu, choose **Application Deployment Manager > Deployed Applications**. The Deployed Applications page opens and displays a list of applications.

**Step 3**
Place a check beside the deployed application to select it, and then click **Edit (pencil)** to open the **Edit Application Instance** dialog.
**Figure 6-3  Edit Application Instance Dialog**

Step 4  Select the **role** for which the additional nodes are to be acquired.

Step 5  Check **Resource SLA Re-Apply**.

Step 6  Click **Finish**.

**Note**

You do not need to change the **Desired Nodes** value. V2PC uses previously configured values to acquire the remaining nodes. For example, if the resource SLA for a role was configured with 1 as the minimum number of nodes and 2 as the desired number, V2PC will enable the role if it has only one node available as this meets the minimum node requirement. V2PC stores the number of nodes originally desired (2 in this example) so that you can create and assign them later.

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**Configuring Resource SLAs**

V2PC supports adding and removing nodes in deployed Media Capture Engine (MCE) and Media Playback Engine (MPE) applications while the applications are still in the **In Service** state.

**Adding an MCE Node**

To add a node to a deployed MCE application:

**Step 1**  From the navigation menu, choose **Application Deployment Manager > Deployed Applications**. The Deployed Applications page opens and displays a list of applications.

**Step 2**  Locate the **cisco-ce** application to be updated in the list of deployed applications and place a check beside it to select it.
Step 3  Click **Edit (pencil)** to open the application for editing.

Step 4  In the edit dialog, navigate to MPE and change the **Desired Nodes** value to the number of nodes desired. For example, if the current value is 2 and one additional node is desired, change the value to 3.

**Note**  To add MCE nodes, the system must have a sufficient number of idle nodes available.

Step 5  Click **Finish** to save the change.

Step 6  On the Deployed Applications page, locate and select the **cisco-ce** application, click **Edit** to open its edit dialog, and review the **Nodes** section to confirm that the desired number of nodes has been added.

### Deleting an MCE Node

**Note**  This procedure will briefly affect any Live or VOD service associated with the MCE node to be deleted.

To delete a node from a deployed MCE application:

**Step 1**  From the navigation menu, choose **Application Deployment Manager > Deployed Applications**. The Deployed Applications page opens.

**Step 2**  Locate the **cisco-ce** application to be updated in the list of deployed applications and place a check beside it to select it.

**Step 3**  In the edit dialog, open the drop-down list for the node to be deleted and choose **Delete**.

**Caution**  You are not asked to confirm the deletion. The node is deleted as soon as you click Delete.

**Step 4**  Change the **Desired Nodes** value to decrease the number of nodes desired by one. For example, if the number of desired nodes is 3, change the value to 2.

**Step 5**  Click **Finish** to save the change.

### Adding an MPE Node

To add a node to a deployed MPE application:

**Step 1**  From the navigation menu, choose **Application Deployment Manager > Deployed Applications**. The Deployed Applications page opens and displays a list of applications.

**Step 2**  Locate the **cisco-pe** application to be updated in the list of deployed applications and place a check beside it to select it.

**Step 3**  Click **Edit (pencil)** to open the application for editing.

**Step 4**  In the edit dialog, navigate to MPE and change the **Desired Nodes** value to the number of nodes desired. For example, if the current value is 2 and one additional node is desired, change the value to 3.
To add MPE nodes, the system must have a sufficient number of idle nodes available.

Step 5
Click **Finish** to save the change.

Step 6
On the Deployed Applications page, locate and select the **cisco-pe** application, click **Edit** to open its edit dialog, and review the **Nodes** section to confirm that the desired number of nodes has been added.

### Deleting an MPE Node

**Note**
This procedure will briefly affect any Live or VOD service associated with the MPE node to be deleted.

To delete a node from a deployed MPE application:

**Step 1**
From the navigation menu, choose **Application Deployment Manager > Deployed Applications**. The Deployed Applications page opens and displays a list of applications.

**Step 2**
Locate the **cisco-pe** application to be updated in the list of deployed applications and place a check beside it to select it.

**Step 3**
In the edit dialog, open the drop-down list for the node to be deleted and choose **Delete**.

**Caution**
You are not asked to confirm the deletion. The node is deleted as soon as you click Delete.

**Step 4**
Change the **Desired Nodes** value to decrease the number of nodes desired by one. For example, if the number of desired nodes is 3, change the value to 2.

**Step 5**
Click **Finish** to save the change.

### Configuring Channels in Live Media Workflows

V2PC supports adding and deleting channels in Live media workflows in accordance with the policies defined for the associated resources. The default policies for the Live (livecaptureplayback) media workflow allow users to change the configuration of a Channellineup resource associated with the workflow (for example, live-hls-mediaflow) while the media workflow is still in In Service State.

**Note**
Unless modified from their defaults, policies for other media workflows do not allow users to configure the associated objects when the media workflow is in In Service state.
Adding Channels

To add channels to a deployed Live media workflow while still in In Service state:

Step 1  From the navigation menu, choose Media Workflow Manager > Media Workflows. The Media Workflows page opens showing a list of all channels currently defined.
Step 2  Navigate to Media Workflow Manager > Resources > Media Sources > ATS Channel Lineups.
Step 3  Add one or more channels to the associated channel lineups.
Step 4  Navigate to Media Workflow Manager > Media Workflows and confirm that the channels are added.

Deleting Channels

To delete channels from a deployed Live media workflow while still in In Service state:

Step 1  From the navigation menu, choose Media Workflow Manager > Media Workflows. The Media Workflows page opens showing a list of all channels currently defined.
Step 2  Navigate to Media Workflow Manager > Resources > Media Sources > ATS Channel Lineups.
Step 3  Delete one or more channels from the associated channel lineups.
Step 4  Navigate to Media Workflow Manager > Media Workflows and confirm that the channels are deleted.