



Device Templates and Workflows

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Cisco MSX Managed Device Templates

The device template defines a complete operational configuration of the device. When the device template is applied to the service ordering workflow, the Cisco MSX service workflow gathers the parameter values; a tenant user enters these values during the service ordering process. These values are passed to NSO, which uses these values in the device configurations.

Managing Templates

Cisco MSX Managed Device service pack provides the parameterized device templates. The template data is configured into the device and orchestrated. You can apply the template on the tenant site, remove the template, or deprovision the template.

Creating a Device Template

The Cisco MSX platform allows you to convert both Cisco and non-Cisco native device configuration formats to device template formats. For more information, see [Converting Device Configuration to Device Template](#).

Adding Device Templates

To add a Managed Device template in MSX:

Procedure

- Step 1** Log in to the Cisco MSX portal.
- Step 2** From the left pane, choose **Settings**.
- Step 3** In the **Settings** window, choose **Template Management**.
- Step 4** In the **Template Management** window, choose **Device Templates**.
The **Template** window is displayed.
- Step 5** In the **Select A Configurational Template** section, click **New Template**.
The **Add Template** window is displayed.
- Step 6** Enter the template name and description, then click **Continue**.

Figure 1: Adding New Template

The screenshot shows the 'Add Template' interface in the Cisco MSX portal. The interface is divided into three main sections: 'Template Information', 'Upload XML File', and 'Configure Parameters'. The 'Upload XML File' section is currently active, showing two options for providing an XML file: 'Enter web address' (with a text input field containing 'www.url.com') and 'Upload from computer' (with a 'Click to browse' button). A 'No File Selected' message is displayed above a blue 'Submit' button. The interface also includes a 'Cancel' button and a 'Submit' button at the top right, and an 'Edit' button and a 'Continue' button at the bottom right of the 'Upload XML File' section. The 'Configure Parameters' section is visible at the bottom, with a 'Continue' button.

Step 7 In the **Upload XML File** section:

- Enter a URL that hosts the XML file, which is uploaded as a GET request.
- Upload the XML file from your local file storage for the template configuration.

Here, you can reuse the template XML file that was obtained while executing the workflow. For more information, see [Converting Device Configuration to Device Template](#).

Step 8 Specify the template configuration parameters.

Cisco MSX allows you to configure how the user will be prompted to enter the value for the variables.

For example: You can create a drop-down list from which the users can choose the variable.

Step 9 Click **Save**.

Managing Template Access for Tenants

To assign or revoke template access for tenants:

Procedure

Step 1 Log in to the Cisco MSX portal.

Step 2 From the left pane, choose **Settings**.

Step 3 In the **Settings** window, choose **Template Management**.

Step 4 In the **Template Management** window, choose **Device Templates**.

The **Template** window is displayed.

Step 5

To assign template access to a tenant:

- a) In the **Select A Configurational Template** pane, select the template that you want to assign to a tenant.
- b) In the **Manage Template Access** pane, select the tenant from the Available Tenants list.
- c) Click >.

The selected tenants move to the Access Granted list.

- d) To assign the template access for all the tenants in the Available Tenants list, click **Select all**.

Note You can click **Change to Unrestricted** to grant access for all the tenants to use the template.

- e) Click >.

All the tenants in the Available Tenants list are moved to the Access Granted list.

- f) Click **Apply**.

The tenant access is applied.

Step 6

To revoke template access from the tenant:

- a) In the **Select A Configurational Template** pane, select the template for which you want to revoke access from the tenant.
- b) In the **Manage Template Access** pane, select the tenant from the Access Granted list for whom you want to revoke access.
- c) Click <.

The tenant is moved from the Access Granted list to the Available Tenants list.

- d) To revoke the template access for all the tenants for whom access is granted, click **Select all**.

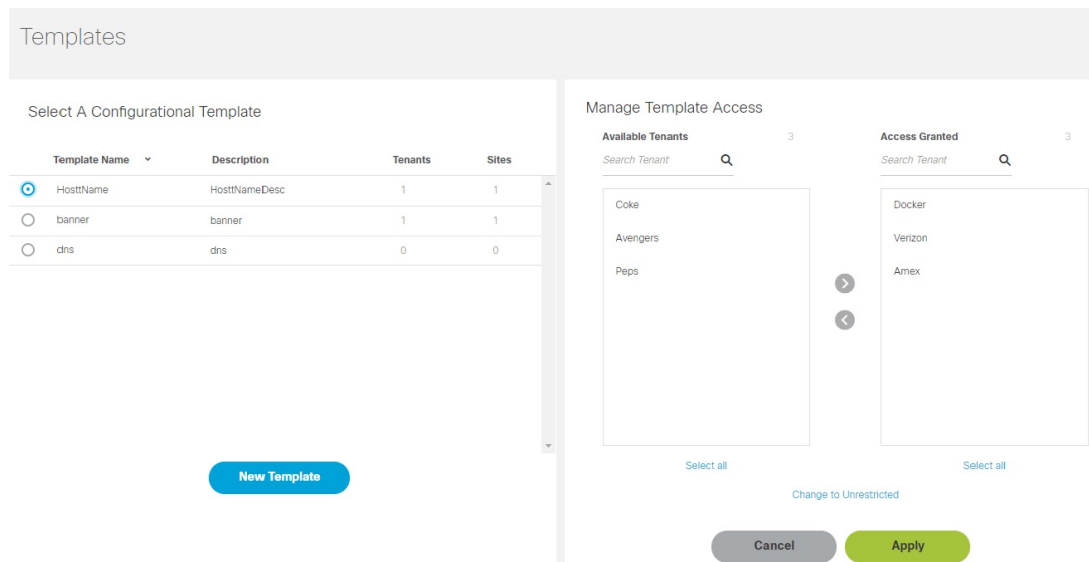
- e) Click <.

Access is revoked for all tenants for whom access was granted. The tenants are moved from Access Granted list to Available Tenants list.

- f) Click **Apply**.

The tenant access is revoked.

Figure 2: Managing Template Access



Deleting Managed Device Templates

Ensure that the template is not used by any tenant or site before deleting. Else, the deleting option to delete remains unavailable. To remove a Managed Device template:

Procedure

- Step 1** Log in to the Cisco MSX portal.
- Step 2** From the left pane, choose **Settings**.
- Step 3** In the **Settings** window, choose **Template Management**.
- Step 4** In the **Template Management** window, choose **Device Templates**.
The **Template** window is displayed with the list of templates.
- Step 5** Hover the mouse pointer over the template name that you want to delete, and click the **Delete** icon that appears on the right of the template name.
- Step 6** Click **Delete Template**.



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