



Dynamic Interfaces

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Feature history for dynamic interfaces

Table 1: Feature History

Feature Name	Release Information	Description
Configuring Dynamic Interfaces	Cisco IOS XE Catalyst SD-WAN Release 17.3.2 Cisco vManage Release 20.3.2	This feature allows you to configure dynamic interfaces for supported devices. A dynamic interface allows a device to select optimum paths in real-time. This feature applies only to the Cisco C8500-12X4QC router.

Configure dynamic interfaces

Configuring dynamic interfaces consists of these general steps:

1. Create a dynamic interface mode feature template. As part of this step, you define modes for the bays in a device.
2. Configure an Interface for Control Connections.
3. Associate the dynamic interface mode feature template with a device template.

You can configure dynamic interfaces for supported devices. A dynamic interface allows a device to select optimum paths in real-time.

When you create a dynamic interface mode feature template, you create a template that defines the modes for the bays in a device.

You can configure the mode for bay 1, bay 2, or both.

The mode for bay 0 is configured automatically and cannot be changed. If you configure the mode for bay 1 as 100G, bay 0 is disabled because the 10G interfaces on bay 0 do not apply in this case.

Procedure

Step 1

Create a dynamic interface mode feature template

- a) From the Cisco SD-WAN Manager menu, choose **Configuration > Templates**.
- b) Click **Device Templates**.

In Cisco vManage Release 20.7.x and earlier releases, **Device Templates** is titled **Device**.

- c) Click the **Create Template** drop-down list and choose **Feature Template**.
- d) From the **Device Model** drop-down list, choose the device for which you wish to create the template.

In **Template Name**, enter a name for the template. This field may contain uppercase and lowercase letters, digits 0 through 9, hyphens (-), and underscores (_).

In **Description**, enter a description of the template. This field can contain any characters and spaces.

- e) From **Additional Templates**, choose the **Dynamic Interface Mode** drop-down list and click **Create Template**.

In **Template Name**, enter a name for the template. This field may contain uppercase and lowercase letters, digits 0 through 9, hyphens (-), and underscores (_).

In **Description**, enter a description of the template. This field can contain any characters and spaces.

- f) Configure the mode for bay 1, bay 2, or both bays by choosing the desired value in the **Bay 1**, **Bay 2**, or both fields. You cannot change the default value for bay 0.
- g) Click Save.

Open a TAC case when there is a mismatch between confd and iosd configurations while changing the bay subslot mode on Cisco C8500-12X4QC router..

Step 2

Configure a new VPN 0 interface for an existing control connection to operate with the bays that you configured in Step 1.

- a) From the Cisco SD-WAN Manager menu, choose **Configuration > Templates**.
- b) Click **Device Templates**.

In Cisco vManage Release 20.7.x and earlier releases, **Device Templates** is titled **Device**.

- c) Click **...** of the template for which you want to configure the interface, and then choose **Edit**.
- d) Click **Transport & Management VPN** and perform these actions to create interfaces for the bays:

1. Click **VPN Interface** in the **Additional VPN 0** Template.
2. Choose the new **VPN Interface Ethernet** menu that displays, and then click **Create Template**.

3. In **Template Name**, enter a name for the template.

This field may contain uppercase and lowercase letters, digits 0 through 9, hyphens (-), and underscores (_).

4. In **Description**, enter a description of the template.

This field can contain any characters and spaces.

5. Add control connections to the bays that you configured as described in Step 1.
- e) Choose **Basic Configuration** and perform these actions:
 1. In **Interface Name**, enter a name for the interface.
Enter a name in the format that this example shows: “FortyGigabitEthernet0/1/0.”
 2. Configure other options on this tab as needed.
 - f) From **Tunnel**, set **Tunnel Interface** to **On**.
 - g) Click **Save**.
 - h) Choose **IPv4 Route** and perform these actions to configure an IPv4 route for the VPN0 template:
 1. Click **New IPv4 Route**.
 2. In **Prefix**, enter a prefix for the IPv4 route.
 3. In **Gateway**, choose **Next Hop**.
 4. Configure items as needed in **Next Hop**, and then click **Add**.
 5. Click **Save**.
 - i) Click **Update**.
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What to do next

After you create the dynamic interface mode feature template, associate it with a device template and attach the device template to a device. For instructions, see *Create a Device Template from Feature Templates*.

