

Managing Virtual Fibre Channels

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About VFCs

Fibre Channel over Ethernet (FCoE) allows Fibre Channel and Ethernet traffic to be carried on the same physical Ethernet connection between the switch and the servers.

The Fibre Channel portion of FCoE is configured as a virtual Fibre Channel (VFC) interface. Logical Fibre Channel features (such as interface mode) can be configured on VFC interfaces.

Before you can use a VFC interface, it must be bound to a physical Ethernet interface that is directly connected to a converged network adapter (CNA). The CNA makes the connection to the Fibre Channel Forwarder (FCF) over a virtual port channel (vPC).

The following switch port modes are used to bind the VFC interface:

- Virtual fabric (VF) port—Connects to a peripheral device (host or disk) operating as an N port. A VF port can be attached to only one N port.
- Virtual expansion (VE) port—Acts as an expansion port in an FCoE network. VE ports can connect multiple FCoE switches in the network. You can bind a VE port to a physical Ethernet port or a port channel.

In Cisco UCS Director, VFC configuration is supported on the following Cisco network devices:

- Cisco Nexus 3000 Series switches
- Cisco Nexus 5000, 5500, and 5672 Series switches
- Cisco Nexus 7000 Series switches
- Cisco MDS 9100 Series switches
- Cisco MDS 9500 Series switches
- Cisco MDS 9700 Series switches



Note

For more detailed information about VFCs and configuration guidelines for VFCs, see the Cisco NX-OS Software Configuration Guides.

Creating a VFC

- Step 1 Choose Physical > Network.
- **Step 2** On the **Network** page, choose the pod.
- Step 3 Click Managed Network Elements.
- **Step 4** Select the network device to be configured.
- **Step 5** From the **More Actions** drop-down list, choose **Create VFC**.

Alternately, choose the device from the expanded pod and click Create VFC on the Summary tab.

Step 6 In the Create Vfc screen, complete the required fields, including the following:

Name	Description
VFC ID field	The VFC ID within the valid range from 1 to 8192. The VFC ID creates a VFC interface.
Select Port Select button	Click Select. In the Select dialog box, choose the port for this VFC and click Select.
Switch Port Mode drop-down list	Choose the switch port mode (E or F). E is for virtual expansion (VE) port. F is for virtual fabric (VF) port. The default is F mode.
Copy Running configuration to Startup configuration check box	Check the check box to copy the running configuration to the startup configuration.

Step 7 Click Submit.

Associating a VFC

- **Step 1** Choose **Physical** > **Network**.
- **Step 2** On the **Network** page, choose the pod.
- Step 3 Click Managed Network Elements.
- **Step 4** Select the network device to be configured.
- **Step 5** From the **More Actions** drop-down list, choose **Associate VFC**.

Alternately, choose the device from the expanded pod and click Associate VFC on the Summary tab.

Step 6 In the Associate Vfc screen, complete the following fields:

Name	Description
VFC Id Select button	Click Select. In the Select dialog box, choose the VFC ID and click Select.
VSAN Id Select button	Click Select to choose the VSAN ID that is associated with this VFC.

Name	Description
Copy Running configuration to Startup configuration check box	Check the check box to copy the running VLAN configuration to the startup configuration.

Step 7 Click Submit.

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