



Hybrid Interfaces

The following topics describe how to configure local hybrid interfaces:

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About Hybrid Interfaces

You can configure logical hybrid interfaces on managed devices that allow the Firepower System to bridge traffic between virtual routers and virtual switches. If IP traffic received on interfaces in a virtual switch is addressed to the MAC address of an associated hybrid logical interface, the system handles it as Layer 3 traffic and either routes or responds to the traffic depending on the destination IP address. If the system receives any other traffic, it handles it as Layer 2 traffic and switches it appropriately. You cannot configure logical hybrid interfaces on an NGIPSv device.

Note that hybrid interfaces that are not associated with both a virtual switch and a virtual router are not available for routing, and do not generate or respond to traffic.

Logical Hybrid Interfaces

You must associate a logical hybrid interface with a virtual router and virtual switch to bridge traffic between Layer 2 and Layer 3. You can only associate a single hybrid interface with a virtual switch. However, you can associate multiple hybrid interfaces with a virtual router.

You can also configure the Cisco Redundancy Protocol (SFRP) on a logical hybrid interface. SFRP allows devices to act as redundant gateways for specified IP addresses.

Note that disabling the **ICMP Enable Responses** option for hybrid interfaces does not prevent ICMP responses in all scenarios. You can add network-based rules to an access control policy to drop packets where the destination IP is the hybrid interface's IP and the protocol is ICMP.

If you have enabled the **Inspect Local Router Traffic** option on the managed device, it drops the packets before they reach the host, thereby preventing any response.

The range of MTU values can vary depending on the model of the managed device and the interface type.



Caution Changing the highest MTU value among all non-management interfaces on the device restarts the Snort process when you deploy configuration changes, temporarily interrupting traffic inspection. Inspection is interrupted on all non-management interfaces, not just the interface you modified. Whether this interruption drops traffic or passes it without further inspection depends on the model of the managed device and the interface type. See [Snort® Restart Traffic Behavior](#) for more information.

Related Topics

[Configuring SFRP](#)

[Advanced Settings](#)

[MTU Ranges for 7000 and 8000 Series Devices and NGIPSv](#)

[Snort® Restart Scenarios](#)

Adding Logical Hybrid Interfaces

| Smart License | Classic License | Supported Devices | Supported Domains | Access |
|---------------|-----------------|--------------------|-------------------|---------------------|
| Any | Control | 7000 & 8000 Series | Leaf only | Admin/Network Admin |



Caution Adding a routed interface pair on 7000 or 8000 Series devices restarts the Snort process when you deploy configuration changes, temporarily interrupting traffic inspection. Whether traffic drops during this interruption or passes without further inspection depends on how the target device handles traffic. See [Snort® Restart Traffic Behavior](#) for more information.

Procedure

Step 1 Choose **Devices > Device Management**.

Step 2 Next to the device where you want to add the hybrid interface, click the edit icon (✎).

In a multidomain deployment, if you are not in a leaf domain, the system prompts you to switch.

Step 3 From the **Add** drop-down menu, choose **Add Logical Interface**.

Step 4 Click **Hybrid** to display the hybrid interface options.

Step 5 In the **Name** field, enter a name for the interface.

Step 6 From the **Virtual Router** drop-down list, choose an existing virtual router, choose **None**, or choose **New** to add a new virtual router.

Note If you add a new virtual router, you must configure it on the Device Management page after you finish setting up the hybrid interface. See [Adding Virtual Routers](#).

Step 7 From the **Virtual Switch** drop-down list, choose an existing virtual switch, choose **None**, or choose **New** to add a new virtual switch.

Note If you add a new virtual switch, you must configure it on the Device Management page after you finish setting up the hybrid interface. See [Adding Virtual Switches](#).

Step 8 Check the **Enabled** check box to allow the hybrid interface to handle traffic.

Note If you clear the check box, the interface becomes disabled and administratively taken down.

Step 9 In the **MTU** field, enter a maximum transmission unit (MTU), which designates the largest size packet allowed. The range of MTU values can vary depending on the model of the managed device and the interface type.

Caution Changing the highest MTU value among all non-management interfaces on the device restarts the Snort process when you deploy configuration changes, temporarily interrupting traffic inspection. Inspection is interrupted on all non-management interfaces, not just the interface you modified. Whether this interruption drops traffic or passes it without further inspection depends on the model of the managed device and the interface type. See [Snort® Restart Traffic Behavior](#) for more information.

Step 10 Next to **ICMP**, check the **Enable Responses** check box to allow the interface to respond to ICMP traffic such as pings and traceroute.

Step 11 Next to **IPv6 NDP**, check the **Enable Router Advertisement** check box to enable the interface to broadcast router advertisements. You can only enable this option if you added IPv6 addresses.

Step 12 To add an IP address, click **Add**.

Step 13 In the **Address** field, enter the IP address and subnet mask. Note the following:

- You cannot add network and broadcast addresses, or the static MAC addresses 00:00:00:00:00:00 and FF:FF:FF:FF:FF:FF.
- You cannot add identical IP addresses, regardless of subnet mask, to interfaces in virtual routers.

Step 14 Optionally if you have IPv6 addresses, next to the **IPv6** field, check the **Address Autoconfiguration** check box to set the IP address of the interface automatically.

Step 15 For **Type**, choose either Normal or SFRP.

Step 16 If you chose SFRP for **Type**, set options as described in [SFRP](#).

Step 17 Click **OK**.

Step 18 Click **Save**.

What to do next

- Deploy configuration changes; see [Deploy Configuration Changes](#).

Related Topics

[MTU Ranges for 7000 and 8000 Series Devices and NGIPSv](#)

[Snort® Restart Scenarios](#)

Deleting Logical Hybrid Interfaces

| Smart License | Classic License | Supported Devices | Supported Domains | Access |
|---------------|-----------------|--------------------|-------------------|---------------------|
| Any | Control | 7000 & 8000 Series | Leaf only | Admin/Network Admin |

Procedure

- Step 1** Choose **Devices > Device Management**.
- Step 2** Next to the device where you want to delete the logical hybrid interface, click the edit icon (✎).
In a multidomain deployment, if you are not in a leaf domain, the system prompts you to switch.
- Step 3** Next to the logical hybrid interface you want to delete, click the delete icon (🗑).
- Step 4** When prompted, confirm that you want to delete the interface.
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What to do next

- Deploy configuration changes; see [Deploy Configuration Changes](#).