



# Broadcast Domain Management

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This chapter explains how to create, edit, and remove broadcast domains and to view broadcast domain statistics. This chapter also explains how to configure IP gateways per broadcast domain which are implemented as VXLAN anycast gateways by the Cisco Nexus Fabric Manager. It has the following sections:

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## Creating a Broadcast Domain

This section explains how to create a broadcast domain.

### Before You Begin

A switch has been successfully added to the switchpool.

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- Step 1** From the **Navigation** drop-down list, choose **Home**.
- Step 2** Click the **BROADCAST DOMAINS** tab.
- Step 3** From the **Settings** drop-down list, choose **Create new broadcast domain**.  
The **CREATE NEW BROADCAST DOMAIN** dialog box appears.
- Note** To view the **ADVANCED** tab, press and hold **Ctrl-Shift-A**. To close the **ADVANCED** tab, press **Ctrl-Shift-A** again at any time. If you press it while the editor is opened, the **ADVANCED** tab won't go away immediately. It will only disappear for the next time the editor is opened (and the current changes will still be pushed).
- Step 4** Enter the appropriate values in the fields listed in the *CREATE NEW BROADCAST DOMAIN Dialog Box Fields* table below then continue to step 5.

Table 1: CREATE NEW BROADCAST DOMAIN Dialog Box Fields

Field	Description
<b>Create multiple</b>	Check the check box to create multiple broadcast domains at a time. When checked, additional fields become visible.
<b>Count</b>	Specify the number of broadcast domains you want to create. <b>Note</b> This field is only visible if the <b>Create multiple</b> check box is checked.
<b>VLAN IDs</b>	Specify the VLAN IDs for the broadcast domains you want to create. This field takes a comma-separated list of IDs and ID ranges and represents the administrative VLAN ID. This value takes precedence over the <b>Count</b> field. <b>Note</b> This field is only visible if the <b>Create multiple</b> check box is checked.
<b>Name</b>	Enter the name for your broadcast domain. <b>Note</b> This field is not visible if the <b>Create multiple</b> check box is checked.
<b>Name prefix</b>	Enter the name for your broadcast domain. The name will be used as a prefix. A count will be appended to the name for each broadcast domain. <b>Note</b> This field is only visible if the <b>Create multiple</b> check box is checked.
<b>Description</b>	Enter a description of the broadcast domain. <b>Note</b> This field is not visible if the <b>Create multiple</b> check box is checked.
<b>State</b>	Enables and disables the broadcast domain. <b>Note</b> This field is not visible if the <b>Create multiple</b> check box is checked.
<b>VLAN ID</b>	Enter a VLAN ID. <b>Note</b> This field is not visible if the <b>Create multiple</b> check box is checked.
<b>Gateway section</b>	
<b>IP address</b>	Enter the IP address for your gateway. <b>Note</b> This field is not visible if the <b>Create multiple</b> check box is checked.

Field	Description
<b>First IP address</b>	Enter the IP address for your gateway. The IP entered will be the first IP. Using the prefix, additional IPs will be generated. <b>Note</b> This field is only visible if the <b>Create multiple</b> check box is checked.
<b>VRF</b>	Click the drop-down list to choose a VRF. Note that a VRF will be chosen by default. <b>Note</b> The default is switchpool default.
<b>MTU</b>	Specify the maximum transmission unit size. <b>Note</b> This field is not visible if the <b>Create multiple</b> check box is checked.
<b>ADVANCED</b> tab	
<b>VNID</b>	Set the VXLAN VNID associated with the new broadcast domain. This field is optional and will be assigned by the NFM if not specified.

**Step 5** Click **CREATE**.

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## Viewing Broadcast Domain Details

Clicking the name on a broadcast domain tile enables you to view detailed information about that broadcast domain such as the active members and total members, the associated members, the history of tasks, and a list of faults. This section explains where to find this information.

### Before You Begin

- At least one broadcast domain has been added.

**Step 1** From the **Navigation** drop-down list, choose **Home**.

**Step 2** Click the **BROADCAST DOMAINS** tab.  
Your broadcast domain tiles appear in the screen.

**Step 3** Click to highlight a tile.  
A summary pane appears on the right with the broadcast domain information below:

- **VLAN ID**—VLAN ID associated with this broadcast domain

- **Description**—Description of the broadcast domain
- **Active members**—Active members for this domain
- **Total members**—Total members for this domain
- **Gateway address**—Gateway address
- **Gateway VRF**—VRF used for the gateway

**Step 4** Click the **name** inside the broadcast domain tile you want to view.  
A broadcast domain-specific window appears with the following tabs:

- **OVERVIEW**—Displays the following:
  - **ACTIVE**—Statistics for the active broadcast domain members
  - **TOTAL**—Total number of configured members on the broadcast domain
  - **GENERAL**—General information such as when the broadcast domain was created and when the broadcast domain was last modified
  - **COMMENT**—Icon for adding a comment
- **MEMBERS**—Displays associated interfaces and port channels
- **HISTORY**—Lists the history of actions taken on the broadcast domain

## Editing a Broadcast Domain

This section explains how to edit a broadcast domain.

### Before You Begin

A broadcast domain has been created.

- Step 1** From the **Navigation** drop-down list, choose **Home**.
- Step 2** Click the **BROADCAST DOMAINS** tab.  
Your broadcast domain tiles appear.
- Step 3** Click the whitespace in the broadcast domain tile you want to edit.  
A broadcast domain-specific window appears with a summary pane on the right that contains the **EDIT** option.
- Step 4** Click **EDIT**.  
The **BROADCAST DOMAIN SETTINGS** dialog box appears.
- Step 5** Enter the appropriate values in the fields listed in the *BROADCAST DOMAIN SETTINGS Dialog Box Fields* table below then continue to step 7.

Table 2: BROADCAST DOMAIN SETTINGS Dialog Box Fields

Field	Description
Name	Enter the name for your broadcast domain.
Description	Enter a description of the broadcast domain.
State	Enables and disables the broadcast domain.
VLAN ID	Enter a VLAN ID.
Gateway section	
IP address	Enter the IP address for your gateway.
VRF	Click the drop-down list to choose a VRF. Note that a VRF will be chosen by default. <b>Note</b> The default is switchpool default.
MTU	Specify the maximum transmission unit size.

**Step 6** Click **SAVE CHANGES**.

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## Deleting a Broadcast Domain

This section explains how to delete a broadcast domain.

### Before You Begin

A broadcast domain has been created.

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- Step 1** From the **Navigation** drop-down list, choose **Home**.
- Step 2** Click the **BROADCAST DOMAINS** tab.  
Your broadcast domain tiles appear.
- Step 3** Click the whitespace in the broadcast domain tile you want to delete.  
A broadcast domain-specific window appears with a summary pane on the right that contains the **DELETE** option.
- Step 4** Click **DELETE**.  
The **DELETE** dialog box appears.
- Step 5** Click **DELETE**.
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# Editing Members of a Broadcast Domain

This section explains how to add and remove one or more members from a broadcast domain.

## Before You Begin

- For adding members to a broadcast domain:
  - A broadcast domain has been created.
  - At least one host-facing or border interface on a leaf switch has been created and configured in Layer 2 mode.
- For removing members from a broadcast domain:
  - At least one member has been added to the broadcast domain.

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**Step 1** From the **Navigation** drop-down list, choose **Home**.

**Step 2** Click the **BROADCAST DOMAIN** tab.  
The **BROADCAST DOMAIN** tab displays your broadcast domain tiles.

**Step 3** (Optional) Follow these steps to filter for specific broadcast domains:

- 1 Enter an expression in the **Filter expression** field of the Actions bar.
- 2 Click **Apply filter**.

**Step 4** Click in the whitespace of the broadcast domain tile.

**Step 5** Click the **MEMBERS** tab.  
Any interface tiles associated with this broadcast domain are displayed.

**Step 6** From the **Settings** drop-down list, choose **Manage Membership**.  
Your interface tiles appear.

**Step 7** (Optional) Follow these steps to filter for specific interfaces:

- 1 Enter an expression in the **Filter expression** field of the Actions bar.
- 2 Click **Apply filter**.

**Step 8** Choose one of the following:

- Adding members:
  - To add all the interfaces displayed in the **MEMBERS** tab, click the + (plus) symbol on the right side of the Actions bar.
  - To add a specific interface, click the + (plus) symbol in the bottom right corner of an interface tile.

**Note** You can select more than one tile at a time.

- Removing members:

- To remove all the interfaces displayed in the **MEMBERS** tab, click the - (minus) symbol on the right side of the Actions bar.
- To remove a specific interface, click the - (minus) symbol in the bottom right corner of an interface tile.

**Note** You can select more than one tile at a time.

**Step 9** When finished, click **EXIT MEMBERSHIP MODE**.  
The changes you made are saved.

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## Setting Untagged Broadcast Domains

This section explains how to set an untagged broadcast domain in a given host-facing or border interface.

### Before You Begin

A broadcast domain has been created and has been applied to a given host-facing or border interface.

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- Step 1** From the **Navigation** drop-down list, choose **Home**.
- Step 2** Click the **INTERFACES** tab.  
Your interface tiles appear.
- Step 3** Click the **name** inside the interface tile that is a member of the broadcast domain you want to set as untagged.
- Step 4** Click the **BROADCAST DOMAINS** tab.  
Your broadcast domain tiles associated with the chosen interface appear.
- Step 5** Click on the broadcast domain tile you want to tag.
- Step 6** Click **Set untagged** in the panel on the right.  
A small tag icon appears in the tile.
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