



## C Commands

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This chapter describes the Cisco NX-OS PIM commands that begin with C.

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# clear ip mroute

To clear the multicast routing table, use the **clear ip mroute** command.

**clear ip mroute** { \* | *group* [*source*] | *group-prefix* } [**vrf** { *vrf-name* | **all** | **default** | **management** }]

| Syntax Description |                     |  |
|--------------------|---------------------|--|
|                    | <b>*</b>            | Specifies all routes.  |
|                    | <i>group</i>        | Group address in the format <i>A.B.C.D</i> .   |
|                    | <i>source</i>       | (Optional) Source (S, G) route.  |
|                    | <i>group-prefix</i> | Group prefix in the format <i>A.B.C.D/length</i> .                                       |
|                    | <b>vrf</b>          | (Optional) Clears the virtual routing and forwarding (VRF) instance information.         |
|                    | <i>vrf-name</i>     | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                    | <b>all</b>          | Specifies that all VRF entries be cleared from the multicast routing table.              |
|                    | <b>default</b>      | Specifies that the default VRF entry be cleared from the multicast routing table.        |
|                    | <b>management</b>   | Specifies that the management VRF entry be cleared from the multicast routing table.     |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 6.0(2)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | The <b>clear routing multicast</b> command is an alternative form of this command. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | This example shows how to clear the multicast routing table: |
|-----------------|--|

```
switch(config)# clear ip mroute *
switch(config)#
```

| Related Commands | Command                        | Description   |
|------------------|--------------------------------|---|
|                  | <b>clear routing multicast</b> | Clears the multicast routing table                      |
|                  | <b>show ip mroute</b>          | Displays information about the multicast routing table. |

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# clear ip pim event-history

To clear information in the IPv4 Protocol Independent Multicast (PIM) event history buffers, use the **clear ip pim event-history** command.

**clear ip pim event-history**

|                           |  |
|---------------------------|--|
| <b>Syntax Description</b> | This command has no arguments or keywords. |
|---------------------------|--|

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| <b>Command History</b> | Release     | Modification                 |
|------------------------|-------------|------------------------------|
|                        | 6.0(2)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |   |
|-----------------|---|
| <b>Examples</b> | This example shows how to clear information in the PIM event history buffers: |
|                 | <pre>switch(config)# clear ip pim event-history switch(config)#</pre>         |

| <b>Related Commands</b> | Command                          | Description  |
|-------------------------|----------------------------------|--|
|                         | <b>ip pim event-history</b>      | Configures the size of the PIM event history buffers.  |
|                         | <b>show ip pim event-history</b> | Displays information in the PIM event history buffers. |

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# clear ip pim interface statistics

To clear Protocol Independent Multicast (PIM) counters for a specified interface, use the **clear ip pim interface statistics** command.

**clear ip pim interface statistics** [**ethernet** *slot/port* | **port-channel** *channel-number* [*.sub\_if-number*] | **vlan** *vlan-id*]

| Syntax Description                |  |  |
|-----------------------------------|--|--|
| <b>ethernet</b> <i>slot/port</i>  | (Optional) Specifies the Ethernet interface. The slot number is from 1 to 255, and the port number is from 1 to 128. |  |
| <b>port-channel</b> <i>number</i> | (Optional) Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.                |  |
| <i>sub_if-number</i>              | (Optional) Subinterface number. The range is from 1 to 4093.   |  |
| <b>vlan</b> <i>vlan-id</i>        | (Optional) Specifies the VLAN. The range is from 1 to 4094.  |  |

**Command Default** None

**Command Modes** Any command mode

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 6.0(2)N1(1) | This command was introduced. |

**Usage Guidelines** This command requires the LAN Base Services license.

**Examples** This example shows how to clear the PIM counters for a specified interface:

```
switch# clear ip pim interface statistics ethernet 2/1
switch#
```

| Related Commands | Command                       | Description              |
|------------------|-------------------------------|--------------------------|
|                  | <b>show ip pim statistics</b> | Displays PIM statistics. |

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# clear ip pim policy statistics

To clear Protocol Independent Multicast (PIM) policy counters, use the **clear ip pim policy statistics** command.

```
clear ip pim policy statistics {jp-policy | neighbor-policy} {ethernet slot/port | port-channel
channel-number[.sub_if-number] | vlan vlan-id}
```

```
clear ip pim policy statistics register-policy [vrf {vrf-name | all | default | management}]
```

| Syntax Description                   |  |   |
|--------------------------------------|--|---|
| <b>jp-policy</b>                     |  | Specifies statistics for the join-prune policy.   |
| <b>neighbor-policy</b>               |  | Specifies statistics for the neighbor policy.   |
| <b>ethernet</b><br><i>slot/port</i>  |  | Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128. |
| <b>port-channel</b><br><i>number</i> |  | Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.  |
| <i>sub_if-number</i>                 |  | (Optional) Subinterface number. The range is from 1 to 4093.  |
| <b>vlan</b>                          |  | Specifies the VLAN.   |
| <i>vlan-id</i>                       |  | VLAN number. The range is from 1 to 4094.   |
| <b>register-policy</b>               |  | Specifies statistics for the register policy.   |
| <b>vrf</b>                           |  | (Optional) Clears the virtual routing and forwarding (VRF) instance information.  |
| <i>vrf-name</i>                      |  | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.  |
| <b>all</b>                           |  | Specifies that all VRF entries be cleared from the IPv4 multicast routing table.  |
| <b>default</b>                       |  | Specifies that the default VRF entry be cleared from the IPv4 multicast routing table.  |
| <b>management</b>                    |  | Specifies that the management VRF entry be cleared from the IPv4 multicast routing table.   |


|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 6.0(2)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |   |
|-----------------|---|
| <b>Examples</b> | <p>This example shows how to clear PIM register policy counters:</p> <pre>switch# <b>clear ip pim policy statistics register-policy</b></pre> |
|-----------------|---|

 clear ip pim policy statistics

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switch#

### Related Commands

| Command                       | Description                     |
|-------------------------------|---------------------------------|
| show ip pim policy statistics | Displays PIM policy statistics. |

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# clear ip pim route

To clear routes specific to Protocol Independent Multicast (PIM) for IPv4, use the **clear ip pim route** command.

**clear ip pim route** { \* | *group* [*source*] | *group-prefix* } [**vrf** { *vrf-name* | **all** | **default** | **management** }]

| Syntax Description |                     |  |
|--------------------|---------------------|--|
|                    | *                   | Specifies all routes.  |
|                    | <i>group</i>        | Group address in the format <i>A.B.C.D</i> .   |
|                    | <i>source</i>       | (Optional) Source (S, G) route.  |
|                    | <i>group-prefix</i> | Group prefix in the format <i>A.B.C.D/length</i> .                                       |
|                    | <b>vrf</b>          | (Optional) Clears the virtual routing and forwarding (VRF) instance information.         |
|                    | <i>vrf-name</i>     | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                    | <b>all</b>          | Specifies that all VRF entries be cleared from the multicast routing table.              |
|                    | <b>default</b>      | Specifies that the default VRF entry be cleared from the multicast routing table.        |
|                    | <b>management</b>   | Specifies that the management VRF entry be cleared from the multicast routing table.     |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 6.0(2)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |   |
|-----------------|---|
| <b>Examples</b> | This example shows how to clear the all the routes specific to PIM: |
|-----------------|---|

```
switch(config)# clear ip pim route *
switch(config)#
```

| Related Commands | Command                  | Description                                     |
|------------------|--------------------------|---|
|                  | <b>show ip pim route</b> | Displays information about PIM specific routes. |

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# clear ip pim statistics

To clear Protocol Independent Multicast (PIM) statistics counters, use the **clear ip pim statistics** command.

**clear ip pim statistics** [**vrf** {*vrf-name* | **all** | **default** | **management**}]

| Syntax Description |  |
|--------------------|--|
| <b>vrf</b>         | (Optional) Clears the virtual routing and forwarding (VRF) instance information.         |
| <i>vrf-name</i>    | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
| <b>all</b>         | Specifies that all VRF entries be cleared from the multicast routing table.              |
| <b>default</b>     | Specifies that the default VRF entry be cleared from the multicast routing table.        |
| <b>management</b>  | Specifies that the management VRF entry be cleared from the multicast routing table.     |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 6.0(2)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | <p>This example shows how to clear PIM statistics counters:</p> <pre>switch# clear ip pim statistics switch#</pre> |
|-----------------|--|

| Related Commands | Command                       | Description              |
|------------------|-------------------------------|--------------------------|
|                  | <b>show ip pim statistics</b> | Displays PIM statistics. |

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# clear ip routing multicast event-history

To clear information in the IPv4 Multicast Routing Information Base (MRIB) event history buffers, use the **clear ip routing multicast event-history** command.

```
clear ip routing multicast event-history { cli | mfdm-debug | mfdm-events | mfdm-stats | rib |  
vrf }
```

| Syntax Description | <b>cli</b>         | Clears the CLI event history buffer.                                  |
|--------------------|--------------------|---|
|                    | <b>mfdm-debug</b>  | Clears the multicast FIB distribution (MFDM) debug history buffer.    |
|                    | <b>mfdm-events</b> | Clears the MFDM events history buffer.                                |
|                    | <b>mfdm-stats</b>  | Clears the MFDM sum event history buffer.                             |
|                    | <b>rib</b>         | Clears the RIB event history buffer.                                  |
|                    | <b>vrf</b>         | Clears the virtual routing and forwarding (VRF) event history buffer. |

|                 |      |
|-----------------|------|
| Command Default | None |
|-----------------|------|

|               |                  |
|---------------|------------------|
| Command Modes | Any command mode |
|---------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 6.0(2)N1(1) | This command was introduced. |

|                  |  |
|------------------|--|
| Usage Guidelines | This command does not require a license. |
|------------------|--|

|          |   |
|----------|---|
| Examples | This example shows how to clear information in the MRIB RIB event history buffer: |
|----------|---|

```
switch(config)# clear ip routing multicast event-history rib  
switch(config)#
```

| Related Commands | Command  | Description  |
|------------------|--|--|
|                  | <b>ip routing multicast event-history</b>      | Configures the size of the IPv4 MRIB event history buffers.  |
|                  | <b>show routing ip multicast event-history</b> | Displays information in the IPv4 MRIB event history buffers. |
|                  |  |  |

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# clear routing multicast

To clear the IPv4 multicast routing table, use the **clear routing multicast** command.

```
clear routing [ip | ipv4] multicast { * | group [source] | group-prefix } [vrf { vrf-name | all | default | management }]
```

**Syntax Description**

|                     |   |
|---------------------|---|
| <b>ip</b>           | (Optional) Clears IP commands.  |
| <b>ipv4</b>         | (Optional) Clears IPv4 commands.  |
| <b>*</b>            | Specifies all routes.   |
| <i>group</i>        | Group address in the format <i>A.B.C.D</i> .  |
| <i>source</i>       | (Optional) Source (S, G) route.   |
| <i>group-prefix</i> | Group prefix in the format <i>A.B.C.D/length</i> .  |
| <b>vrf</b>          | (Optional) Clears the virtual routing and forwarding (VRF) instance information.          |
| <i>vrf-name</i>     | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.  |
| <b>all</b>          | Specifies that all VRF entries be cleared from the IPv4 multicast routing table.          |
| <b>default</b>      | Specifies that the default VRF entry be cleared from the IPv4 multicast routing table.    |
| <b>management</b>   | Specifies that the management VRF entry be cleared from the IPv4 multicast routing table. |

**Command Default**

None

**Command Modes**

Any command mode

**Command History**

| Release     | Modification                 |
|-------------|------------------------------|
| 6.0(2)N1(1) | This command was introduced. |

**Usage Guidelines**

The **clear ip mroute** command is an alternative form of this command.

This command does not require a license.

**Examples**

This example shows how to clear the IPv4 multicast routing table:

```
switch(config)# clear routing multicast *
switch(config)#
```

***Review Draft -- Cisco Confidential*****Related Commands**

| Command                          | Description                                       |
|----------------------------------|---|
| <b>clear ip mroute</b>           | Clears the multicast routing table.               |
| <b>show routing ip multicast</b> | Displays information about IPv4 multicast routes. |

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