



## C Commands

---

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

**Review Draft -- Cisco Confidential**

# 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		
	*	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.

Command Default	
	None

Command Modes	
	Any command mode

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

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

Examples	
	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.

*Review Draft -- Cisco Confidential*

# 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**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	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 information in the PIM event history buffers:

```
switch(config)# clear ip pim event-history  
switch(config)#
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<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.

**Review Draft -- Cisco Confidential**

# 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	Parameter	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.

**Review Draft -- Cisco Confidential**

# 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> <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> <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.

**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 PIM register policy counters:

```
switch# clear ip pim policy statistics register-policy
```

■ clear ip pim policy statistics

## *Review Draft -- Cisco Confidential*

switch#

### Related Commands

Command	Description
<b>show ip pim policy statistics</b>	Displays PIM policy statistics.

**Review Draft -- Cisco Confidential**

# 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.	

**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 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.

*Review Draft -- Cisco Confidential*

# 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.	

**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 PIM statistics counters:

```
switch# clear ip pim statistics
switch#
```

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

*Review Draft -- Cisco Confidential*

# 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	cli	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.

*Review Draft -- Cisco Confidential*

# 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***

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

***Review Draft -- Cisco Confidential***