C Commands

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

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

Command Default

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

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

Usage Guidelines

The **clear routing multicast** command is an alternative form of this command.

This command does not require a license.

Examples

This example shows how to clear the multicast routing table:

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

Related Commands

Command	Description
clear routing multicast	Clears the multicast routing table
show ip mroute	Displays information about the multicast routing table.

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

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

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 information in the PIM event history buffers:

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

Related Commands

Command	Description
ip pim event-history	Configures the size of the PIM event history buffers.
show ip pim event-history	Displays information in the PIM event history buffers.

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

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

Command Default

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

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
show ip pim statistics	Displays PIM statistics.

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**}]

clear ip pim policy statistics {**register-policy** | **bsr** {**bsr-policy** | **rp-candidate-policy**} | **auto-rp** {**rp-candidate-policy** | **mapping-agent-policy**}} [**vrf** {*vrf-name* | **all**}]

Syntax Description

jp-policy	Specifies statistics for the join-prune policy.
neighbor-policy	Specifies statistics for the neighbor policy.
ethernet *slot/port*	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.
loopback *if_number*	(Optional) Specifies the loopback interface. The loopback interface number is from 0 to 1023.
port-channel *number*	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
sub_if-number	(Optional) Subinterface number. The range is from 1 to 4093.
vlan	Specifies the VLAN.
vlan-id	VLAN number. The range is from 1 to 4094.
if-type	Interface type. For more information, use the question mark (?) online help function.
if-number	Interface or subinterface number. For more information about the numbering syntax for your networking device, use the question mark (?) online help function.
register-policy	Specifies statistics for the register policy.
bsr	Specifies the bootstrap protocol RP-distribution policy.
bsr-policy	Specifies the statistics for BSR messages.
rp-candidate-policy	Specifies the statistics for RP candidate messages.
auto-rp	Specifies the statistics for Auto-RP messages.
mapping-agent-policy	Specifies the statistics for mapping agent messages.
vrf	(Optional) Clears the virtual routing and forwarding (VRF) instance information.
vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
all	Specifies that all VRF entries be cleared from the IPv4 multicast routing table.
default	Specifies that the default VRF entry be cleared from the IPv4 multicast routing table.
management	Specifies that the management VRF entry be cleared from the IPv4 multicast routing table.

Command Default None

Command Modes Any command mode

Supported User Roles
network-admin
network-operator
vdc-admin
vdc-operator

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
switch#
```

Related Commands

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

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

Command Default

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

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
show ip pim route	Displays information about PIM specific routes.

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

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

Command Default None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

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
show ip pim statistics	Displays PIM statistics.

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-debugs** | **mfdm-events** | **mfdm** | **mfdm-stats** | **rib** | **vrf**}

Syntax Description

cli	Clears the CLI event history buffer.
mfdm	Clears the multicast FIB distribution (MFDM) event history buffer.
mfdm-debugs	Clears the multicast FIB distribution (MFDM) debug history buffer.
mfdm-events	Clears the MFDM events history buffer.
mfdm-stats	Clears the MFDM sum event history buffer.
rib	Clears the RIB event history buffer.
vrf	Clears the virtual routing and forwarding (VRF) event history buffer.

Command Default

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

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
ip routing multicast event-history	Configures the size of the IPv4 MRIB event history buffers.
show routing ip multicast event-history	Displays information in the IPv4 MRIB event history buffers.

clear ipv6 mroute

To clear routes in the IPv6 multicast routing table, use the **clear ipv6 mroute** command.

clear ipv6 mroute {***** | *group-prefix* | *group* [*source*]} [**vrf** {*vrf-name* | **all**}]

Syntax Description

*	Specifies all routes.
group-prefix	Group prefix.
group	Group address.
source	(Optional) Source (S, G) route.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name.
all	Specifies all VRFs.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(3)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to clear all the routes in the IPv6 multicast routing table:

```
switch(config)# clear ipv6 mroute *
switch(config)#
```

Related Commands

Command	Description
show ipv6 mroute	Displays information about the IPv6 multicast routing table.

clear ipv6 routing multicast event-history

To clear information in the IPv6 Multicast Routing Information Base (M6RIB) event history buffers, use the **clear ipv6 routing multicast event-history** command.

clear ipv6 routing multicast event-history {**cli** | **mfdm** | **mfdm-stats** | **rib** | **vrf**}

Syntax Description

cli	Clears the CLI event history buffer.
mfdm	Clears the multicast FIB distribution (MFDM event history buffer.
mfdm-stats	Clears the MFDM sum event history buffer.
rib	Clears the RIB event history buffer.
vrf	Clears the virtual routing and forwarding (VRF) event history buffer.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.1(2)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to clear information in the M6RIB RIB event history buffer:

```
switch(config)# clear ipv6 routing multicast event-history rib
switch(config)#
```

Related Commands

Command	Description
ipv6 routing multicast event-history	Configures the size of the IPv6 M6RIB event history buffers.
show routing ipv6 multicast event-history	Displays information in the IPv6 M6RIB event history buffers.

clear routing ipv6 multicast

To clear the IPv6 multicast routing table, use the **clear routing ipv6 multicast** command.

clear routing ipv6 multicast {***** | *group-prefix* | *group* [*source*]} [**vrf** {*vrf-name* | **all**}]

Syntax Description

*	Specifies routes.
group-prefix	Group prefix.
group	Group address.
source	(Optional) Source (S, G) route.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name.
all	Specifies all VRFs.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(3)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to clear the IPv6 multicast routing table:

```
switch(config)# clear routing ipv6 multicast *
switch(config)#
```

Related Commands

Command	Description
show routing ipv6 multicast	Displays information about IPv6 multicast routes.

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

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

Command Default

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

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)#
```

Related Commands

Command	Description
clear ip mroute	Clears the multicast routing table.
show routing ip multicast	Displays information about IPv4 multicast routes.

clear ipv6 pim event-history

To clear information in the IPv6 Protocol Independent Multicast (PIM6) event history buffers, use the **clear ipv6 pim event-history** command.

clear ipv6 pim event-history

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear information in the PIM6 event history buffers:

```
switch(config)# clear ipv6 pim event-history
switch(config)#
```

Related Commands

Command	Description
ipv6 pim event-history	Configures the size of the PIM6 event history buffers.
show ipv6 pim event-history	Displays information in the PIM6 event history buffers.

clear ipv6 pim interface statistics

To clear Protocol Independent Multicast for IPv6 (PIM6) counters for a specified interface, use the **clear ipv6 pim interface statistics** command.

clear ipv6 pim interface statistics [*if-type if-number*]

Syntax Description

if-type	(Optional) Interface type. For more information, use the question mark (?) online help function.
if-number	(Optional) Interface or subinterface number. For more information about the numbering syntax for your networking device, use the question mark (?) online help function.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(1)	This command was introduced.
4.0(3)	The interface argument was made optional.

Usage Guidelines

This command requires the Enterprise Services license.

Examples

This example shows how to clear PIM6 counters for a specified interface:

```
switch# clear ipv6 pim interface statistics ethernet 2/2
switch#
```

Related Commands

Command	Description
show ipv6 pim statistics	Displays PIM6 statistics.

clear ipv6 pim policy statistics

To clear Protocol Independent Multicast for IPv6 (PIM6) policy counters, use the **clear ipv6 pim policy statistics** command.

clear ipv6 pim policy statistics {**jp-policy** | **neighbor-policy**} *if-type if-number*

Syntax Description

jp-policy	Specifies the statistics for join-prune policy.
neighbor-policy	Specifies the statistics for neighbor policy.
if-type	Interface type. For more information, use the question mark (?) online help function.
if-number	Interface or subinterface number. For more information about the numbering syntax for your networking device, use the question mark (?) online help function.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

This command requires the Enterprise Services license.

Examples

This example shows how to clear PIM6 join-prune policy counters:

```
switch(config)# clear ipv6 pim policy statistics jp-policy
```

Related Commands

Command	Description
show ipv6 pim policy statistics	Displays PIM6 policy statistics.

clear ipv6 pim route

To clear routes specific to Protocol Independent Multicast for IPv6 (PIM6), use the **clear ipv6 pim route** command.

clear ipv6 pim route {***** | *group-prefix* | *group* [*source*]} [**vrf** {*vrf-name* | **all**}]

Syntax Description

*	Specifies all routes.
group-prefix	Group prefix.
group	Group address.
source	(Optional) Source (S, G) route.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name.
all	Specifies all VRFs.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.1(2)	This command was introduced.

Usage Guidelines

This command requires the Enterprise Services license.

Examples

This example shows how to clear the all the routes specific to PIM6:

```
switch(config)# clear ipv6 pim route *
switch(config)#
```

Related Commands

Command	Description
show ipv6 pim route	Displays information about PIM6 specific routes.

clear ipv6 pim statistics

To clear Protocol Independent Multicast for IPv6 (PIM6) statistics counters, use the **clear ipv6 pim statistics** command.

clear ipv6 pim statistics [**vrf** {*vrf-name* | **all**}]

Syntax Description

vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name.
all	Specifies all VRFs.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

This command requires the Enterprise Services license.

Examples

This example shows how to clear PIM6 statistics counters:

```
switch# clear ipv6 pim statistics
```

Related Commands

Command	Description
show ipv6 pim statistics	Displays PIM6 statistics.

clear ipv6 routing multicast event-history

To clear information in the IPv6 Multicast Routing Information Base (M6RIB) event history buffers, use the **clear ipv6 routing multicast event-history** command.

clear ipv6 routing multicast event-history {**cli** | **mfdm** | **mfdm-stats** | **rib** | **vrf**}

Syntax Description

cli	Clears the CLI event history buffer.
mfdm	Clears the multicast FIB distribution (MFDM event history buffer.
mfdm-stats	Clears the MFDM sum event history buffer.
rib	Clears the RIB event history buffer.
vrf	Clears the virtual routing and forwarding (VRF) event history buffer.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.1(2)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to clear information in the M6RIB RIB event history buffer:

```
switch(config)# clear ipv6 routing multicast event-history rib
switch(config)#
```

Related Commands

Command	Description
ipv6 routing multicast event-history	Configures the size of the IPv6 M6RIB event history buffers.
show routing ipv6 multicast event-history	Displays information in the IPv6 M6RIB event history buffers.