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C Commands

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

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clear ip igmp interface statistics

To clear the IGMP statistics for an interface, use the **clear ip igmp interface statistics** command.

```
clear ip igmp interface statistics [if-type if-number]
```

Syntax Description	<i>if-type</i>	(Optional) Interface type. For more information, use the question mark (?) online help function.
	<i>if-number</i>	(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(3)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example shows how to clear IGMP statistics for an interface: <pre>switch# clear ip igmp interface statistics ethernet 2/1 switch#</pre>	
Related Commands	Command	Description
	show ip igmp interface	Displays information about IGMP interfaces.

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clear ip igmp snooping statistics vlan

To clear the IGMP snooping statistics for VLANs, use the **clear ip igmp snooping statistics vlan** command.

```
clear ip igmp snooping statistics vlan {vlan-id | all}
```

Syntax Description	
<i>vlan-id</i>	VLAN number. The range is from 1 to 3967 and 4048 to 4093.
all	Applies to all VLANs.

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 all keyword was added.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear IGMP snooping statistics for VLAN 1:

```
switch# clear ip igmp snooping statistics vlan 1
switch#
```

Related Commands	Command	Description
	show ip igmp snooping statistics vlan	Displays IGMP snooping statistics by VLAN.

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clear ip mroute

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

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

Syntax Description		
	*	Specifies all routes.
	<i>group-prefix</i>	Group prefix.
	<i>group</i>	Group address.
	<i>source</i>	(Optional) Source (S, G) route.
	vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
	<i>vrf-name</i>	VRF name.
	all	Display information for all VRFs.

Defaults None

Command Modes Any command mode

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

Command History	Release	Modification
	4.0(3)	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.

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clear ip msdp peer

To clear a TCP connection to Multicast Source Discovery Protocol (MSDP) peers, use the **clear ip msdp peer** command.

```
clear ip msdp peer peer-address [vrf vrf-name]
```

Syntax Description

<i>peer-address</i>	IP address of MSDP peer.
vrf <i>vrf-name</i>	(Optional) Applies to a virtual routing and forwarding (VRF) instance name.

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 a TCP connection to an MSDP peer:

```
switch# clear ip msdp peer 192.168.1.10  
switch#
```

Related Commands

Command	Description
show ip msdp peer	Displays information about MSDP peers.

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clear ip msdp policy statistics sa-policy

To clear the Source-Active (SA) policy for Multicast Source Discovery Protocol (MSDP) peers, use the **clear ip msdp policy statistics sa-policy** command.

```
clear ip msdp policy statistics sa-policy peer-address {in | out} [vrf vrf-name]
```

Syntax Description	
<i>peer-address</i>	IP address of MSDP peer for SA policy.
in	Specifies input policy.
out	Specifies output policy.
vrf vrf-name	(Optional) Applies to a virtual routing and forwarding (VRF) instance name.

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 an SA policy for an MSDP peer:

```
switch# clear ip msdp policy statistics sa-policy
switch#
```

Related Commands	Command	Description
	show ip msdp peer	Displays information about MSDP peers.

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clear ip msdp route



Note

Effective with Cisco NX-OS Release 4.0(3), the **clear ip msdp route** command is not available in Cisco NX-OS software.

To clear routes matching group entries in the Multicast Source Discovery Protocol (MSDP) Source-Active (SA) cache, use the **clear ip msdp route** command.

```
clear ip msdp route [group] [vrf {vrf-name | all}]
```

Syntax Description

<i>group</i>	(Optional) All sources for group from the SA-cache.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	VRF name.
all	Applies to 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.
4.0(3)	This command was removed.

Usage Guidelines

You can also use the **clear ip msdp sa-cache** command for the same function. This command requires the Enterprise Services license.

Examples

This example shows how to clear the MSDP SA cache:

```
switch# clear ip msdp route
switch#
```

Related Commands

clear ip msdp route

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Command	Description
clear ip msdp sa-cache	Clears the MSDP SA cache.
show ip msdp route	Displays route information in the MSDP Source-Active cache.

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clear ip msdp sa-cache



Note

Effective with Cisco NX-OS Release 4.0(3), the **clear ip msdp sa-cache** command is not available in Cisco NX-OS software.

To clear routes matching group entries in the Multicast Source Discovery Protocol (MSDP) Source-Active (SA) cache, use the **clear ip msdp sa-cache** command.

```
clear ip msdp sa-cache [group] [vrf {vrf-name | all}]
```

Syntax Description

<i>group</i>	(Optional) All sources for group from the SA-cache.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	VRF name.
all	Applies to 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.
4.0(3)	This command was removed.

Usage Guidelines

You can also use the **clear ip msdp route** command for the same function. This command requires the Enterprise Services license.

Examples

This example shows how to clear the MSDP SA cache:

```
switch# clear ip msdp sa-cache
switch#
```

Related Commands

■ clear ip msdp sa-cache***Send document comments to nexus7k-docfeedback@cisco.com***

Command	Description
clear ip msdp route	Clears the MSDP SA cache.
show ip msdp sa-cache	Displays route information in the MSDP Source-Active cache.

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clear ip msdp statistics

To clear statistics for Multicast Source Discovery Protocol (MSDP) peers, use the **clear ip msdp statistics** command.

```
clear ip msdp statistics [peer-address] [vrf vrf-name]
```

Syntax Description

<i>peer-address</i>	(Optional) IP address of the MSDP peer.
vrf <i>vrf-name</i>	(Optional) Applies to a virtual routing and forwarding (VRF) instance name.

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 MSDP statistics for all MSDP peers:

```
switch# clear ip msdp statistics
switch#
```

Related Commands

Command	Description
show ip msdp peer	Displays information about MSDP peers.

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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 [if-type if-number]
```

Syntax Description		
<i>if-type</i>	(Optional) Interface type. For more information, use the question mark (?) online help function.	
<i>if-number</i>	(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
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Command Modes	Any command mode
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Supported User Roles	network-admin network-operator vdc-admin vdc-operator
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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.
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Examples	This example shows how to clear the PIM counters for a specified interface:
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```
switch# clear ip pim interface statistics ethernet 2/1
switch#
```

Related Commands	Command	Description
	show ip pim statistics	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} if-type if-number
```

```
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.
<i>if-type</i>	Interface type. For more information, use the question mark (?) online help function.
<i>if-number</i>	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) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	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.

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Usage Guidelines This command requires the Enterprise 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.

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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}]
```

Syntax Description	Parameter	Description
	vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
	<i>vrf-name</i>	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 PIM statistics counters:

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

Related Commands	Command	Description
	show ip pim statistics	Displays PIM statistics.

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clear ipv6 mroute

To clear 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.
	<i>group-prefix</i>	Group prefix.
	<i>group</i>	Group address.
	<i>source</i>	(Optional) Source (S, G) route.
	vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
	<i>vrf-name</i>	VRF name.
	all	Specifies all VRFs.

Defaults None

Command Modes Any command mode

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

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

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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		
	<i>if-type</i>	(Optional) Interface type. For more information, use the question mark (?) online help function.
	<i>if-number</i>	(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.

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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.
<i>if-type</i>	Interface type. For more information, use the question mark (?) online help function.
<i>if-number</i>	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.

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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.
<i>vrf-name</i>	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.

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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.
<i>group-prefix</i>	Group prefix.
<i>group</i>	Group address.
<i>source</i>	(Optional) Source (S, G) route.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	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.

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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-prefix | group [source]] [vrf {vrf-name | all}]
```

Syntax Description		
ip	(Optional) Clear IP commands.	
ipv4	(Optional) Clear IP commands.	
*	Specifies all routes.	
<i>group-prefix</i>	Group prefix.	
<i>group</i>	Group address.	
<i>source</i>	(Optional) Source (S, G) route.	
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.	
<i>vrf-name</i>	VRF name.	
all	Specifies all VRFs.	

Defaults None

Command Modes Any command mode

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

Command History	Release	Modification
	4.0(3)	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)#
```

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