



C Commands

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

capability additional-paths

To configure BGP to advertise the capability of sending and receiving additional paths to and from the BGP peers, use the **capability additional-paths** command. To disable the capability additional-path, use the **no** form of this command.

capability additional-paths { **receive** | **send** } [**disable**]

Syntax Description		
	receive	Advertises the capability to receive additional paths from the BGP peer.
	send	Advertises the capability to send additional paths to the BGP peer.
	disable	(Optional) Disables the advertising capability of sending additional paths.

Defaults None

Command Modes neighbor address-family configuration mode

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	6.1(1)	This command was introduced.

Usage Guidelines This command requires the Enterprise Services license.

Examples This example shows how to configure BGP to advertise the capability to send and receive additional paths to the BGP peer:

```
switch(config)# router bgp 100
switch(config-router)# neighbor 10.131.31.2 remote-as 100
switch(config-router-neighbor)# address-family ipv4 unicast
switch(config-router-neighbor-af)# capability additional-path send
switch(config-router-neighbor-af)#
switch(config-router-neighbor-af)# capability additional-paths receive
switch(config-router-neighbor-af)#
```

clear bgp

To clear Border Gateway Protocol (BGP) routes from the BGP table, use the **clear bgp** command.

```
clear bgp {{ ipv4 | ipv6 } { unicast | multicast } | all } { neighbor | * | as-number | peer-template
name | prefix } [vrf vrf-name]
```

Syntax Description		
ipv4	(Optional)	Clears the BGP information for the IPv4 address family.
ipv6	(Optional)	Clears the BGP information for the IPv6 address family.
unicast		Clears BGP information for the unicast address family.
multicast		Clears BGP information for the multicast address family.
all	(Optional)	Clears the BGP information for all address families.
<i>neighbor</i>		Network address. The format is A.B.C.D for IPv4 and A:B::C:D for IPv6.
<i>as-number</i>		Autonomous system number. The range is from 1 to 65535.
peer-template <i>name</i>		Specifies a BGP peer template. The name can be any case-sensitive, alphanumeric string up to 63 characters.
<i>prefix</i>		A prefix from the selected address family. The format is A.B.C.D/length for IPv4 and A:B::C:D/length for IPv6.
vrf <i>vrf-name</i>	(Optional)	Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.0(3)	Added support for IPv6 prefixes.

Usage Guidelines This command requires the Enterprise Services license.

Examples This example shows how to clear all BGP entries:

```
switch# clear bgp all *
```

clear bgp dampening

To clear Border Gateway Protocol (BGP) route flap dampening information, use the **clear bgp dampening** command.

```
clear bgp {{ ipv4 | ipv6 } { unicast | multicast } | all} dampening [neighbor | prefix] [vrf vrf-name]
```

Syntax Description		
ipv4	(Optional)	Clears BGP information for IPv4 address family.
ipv6	(Optional)	Clears BGP information for IPv6 address family.
unicast		Clears BGP information for unicast address family.
multicast		Clears BGP information for multicast address family.
all	(Optional)	Clears BGP information for all address families.
<i>neighbor</i>		Neighbor from the selected address family. The format is A.B.C.D for IPv4.
<i>prefix</i>		Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf vrf-name	(Optional)	Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults	None
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Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command requires the Enterprise Services license.
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Examples	This example shows how to clear BGP route flap dampening information: switch# clear bgp all dampening
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clear bgp flap-statistics

To clear Border Gateway Protocol (BGP) route flap statistics, use the **clear bgp flap-statistics** command.

```
clear bgp flap-statistics [neighbor | prefix] [vrf vrf-name]
```

Syntax Description		
<i>neighbor</i>		A neighbor from the selected address family. The format is A.B.C.D for IPv4.
<i>prefix</i>		A prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf <i>vrf-name</i>		(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 BGP route flap statistics:

```
switch# clear bgp flap-statistics
```

clear bgp policy statistics aggregate-address

To clear policy statistics for the Border Gateway Protocol (BGP) topology table, use the **clear bgp policy statistics aggregate address** command.

clear bgp policy statistics aggregate address *prefix* { **advertise-map** | **suppress-map** }

Syntax Description		
	<i>prefix</i>	Summary address. The format is x.x.x.x or x.x.x.x/length. The length range is from 1 to 32.
	advertise-map	Clears policy statistics for the advertise policy
	suppress-map	Clears policy statistics for the suppress policy.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 policy statistics for an aggregate address:

```
switch# clear bgp policy statistics aggregate-address 192.0.2.0/8
```

Related Commands	Command	Description
	show bgp policy statistics	Displays policy statistics for bgp.

clear bgp policy statistics dampening

To clear policy statistics for the Border Gateway Protocol (BGP) dampening, use the **clear bgp policy statistics dampening** command.

clear bgp policy statistics dampening

Syntax Description This command has no keywords or arguments.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 policy statistics for dampening:

```
switch# clear bgp policy statistics dampening
```

Related Commands	Command	Description
	show bgp policy statistics	Displays policy statistics for BGP.

clear bgp policy statistics neighbor

To clear policy statistics for the Border Gateway Protocol (BGP) neighbor, use the **clear bgp policy statistics neighbor** command.

```
clear bgp policy statistics neighbor prefix [default-originate | {filter-list | prefix-list | route-map} {in | out}]
```

Syntax Description		
	<i>prefix</i>	Neighbor address. The format is x.x.x.x.
	default-originate	(Optional) Clears policy statistics for the default originate policy.
	filter-list	Clears policy statistics for the neighbor filter list.
	prefix-list	Clears policy statistics for the neighbor prefix list.
	route-map	Clears policy statistics for the neighbor route map.
	in	(Optional) Clears inbound policy statistics.
	out	(Optional) Clears outbound policy statistics.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 policy statistics for an aggregate address:

```
switch# clear bgp policy statistics neighbor 192.0.2.1 filter-list in
```

Related Commands	Command	Description
	show bgp policy statistics	Displays policy statistics for BGP.

clear bgp policy statistics redistribute

To clear policy statistics for the Border Gateway Protocol (BGP) topology table, use the **clear bgp policy statistics** command.

```
clear bgp policy statistics redistribute {direct | eigrp id | isis id | ospf id | rip id | static} [vrf
{vrf-name | *}]
```

Syntax Description		
direct		Clears policy statistics for directly connected routes only.
eigrp		Clears policy statistics for EIGRP.
isis		Clears policy statistics for the Intermediate-System to Intermediate-System (IS-IS) routing protocol.
ospf		Clears policy statistics for the Open Shortest Path First (OSPF) protocol.
rip		Clears policy statistics for the Routing Information Protocol (RIP).
static		Clears policy statistics for IP static routes.
<i>id</i>		For the eigrp keyword, an EIGRP instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. For the isis keyword, an IS-IS instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. For the ospf keyword, an OSPF instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.
vrf <i>vrf-name</i> *		Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.

Defaults None

Command Modes Any

Supported Users/Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command requires the Enterprise Services license.

clear bgp policy statistics redistribute

Examples

This example shows how to clear policy statistics for RIP:

```
switch# clear bgp policy statistics redistribute rip 201
```

Related Commands

Command	Description
show bgp policy statistics	Displays BGP policy statistics.

clear forwarding route

To clear forwarding information, use the **clear forwarding route** command.

```
clear forwarding {ip | ipv4 | ipv6} route [* | prefix] [vrf vrf-name]
```

Syntax Description		
ip		Clears an IPv4 route.
ipv4		Clears an IPv4 route.
ipv6		Clears an IPv6 route.
*		Clears all routes.
<i>prefix</i>		IPv4 or IPv6 prefix. The IPv4 format is x.x.x.x/length. The IPv6 format is A:B::C:D/length.
vrf <i>vrf-name</i>		(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

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 a route from the FIB:

```
switch# clear forwarding ip 10.0.0.1/8
```

clear forwarding inconsistency

To clear the Layer 3 inconsistency checker for the Forwarding Information Base (FIB), use the **clear forwarding inconsistency** command.

```
clear forwarding inconsistency [ip | ipv4 | ipv6] [unicast] [vrf vrf-name] [module {slot | all}]
```

Syntax Description		
ip	(Optional)	Specifies the inconsistency check for IPv4 routes.
ipv4	(Optional)	Specifies the inconsistency check for IPv4 routes.
ipv6	(Optional)	Specifies the inconsistency check for IPv6 routes.
unicast	(Optional)	Specifies the inconsistency check for unicast routes.
vrf <i>vrf-name</i>	(Optional)	Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.
module	(Optional)	Specifies the inconsistency check for one or more modules.
<i>slot</i>		Module number. The range depends on the platform.
all	(Optional)	Specifies the inconsistency check for all modules.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.2(1)	Added support for ipv6 keyword.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the Layer 3 inconsistency checker for all modules:

```
switch# clear forwarding inconsistency module all
```

Related Commands	Command	Description
	show forwarding inconsistency	Displays information about the FIB inconsistencies.
	test forwarding inconsistency	Triggers the forwarding inconsistency checker.

clear hardware ip verify

To clear IP packet verification, use the **clear hardware ip verify** command. To disable IP packet verification, use the **no** form of this command.

clear hardware ip verify {checksum | fragment | protocol | tcp tiny-frag | version}

Syntax Description	Parameter	Description
	checksum	Drops IPv4 or IPv6 packets if the checksum is invalid.
	fragment	Drops IPv4 or IPv6 packets if the packet fragment has a nonzero offset and the DF bit is active.
	protocol	Drops IPv4 or IPv6 packets if the packet fragment has an invalid IP protocol number.
	tcp tiny-frag	Drops IPv4 packets if the IP fragment offset is 1, or if the IP fragment offset is 0 and the IP payload length is less than 16.
	version	Drops IPv4 packets if the EtherType is not set to 4 (IPv4).

Defaults None

Command Modes Global configuration

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.1(3)	This command was introduced.
	4.2(2)	Added protocol keyword.

Usage Guidelines Use the **clear hardware ip verify** command to clear packet verification tests on IPv4 and IPv6 packets based on checksum or fragments.

This command does not require a license.

Examples This example shows how to clear fragmented IPv4 or IPv6 packet tests:

```
switch(config)# clear hardware ip verify fragment
```

Related Commands	Command	Description
	hardware ip verify address	Configures IPv4 and IPv6 packet verification checks based on addresses.
	hardware ip verify length	Configures IPv4 packet verification checks based on length.
	hardware ipv6 verify	Configures IPv6 packet verification.
	show hardware forwarding ip verify	Displays information about IP packet verification checks.

clear hardware ip verify address

To clear packet verification tests on IP addresses, use the **clear hardware ip verify address** command. To disable packet verification tests, use the **no** form of this command.

```
clear hardware ip verify address { destination zero | identical | reserved | source { broadcast |
multicast } }
```

Syntax Description		
destination zero	Drops IP packets if the destination IPv4 address is 0.0.0.0 or if the IPv6 address is ::.	
identical	Drops IP packets if the source IPv4 or IPv6 address is identical to the destination IPv4 or IPv6 address.	
reserved	Drops IP packets if the IPv4 address is in the 127.x.x.x range or if the IPv6 address is in the ::1 range.	
source	Drops IP packets based on the IP source address.	
broadcast	Drops IP packets if the IP source address is 255.255.255.255.	
multicast	Drops IP packets if the IPv4 source address is in the 224.x.x.x range or if the IPv6 source address is in the FF00::/8 range.	

Defaults None

Command Modes Global configuration

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.1(3)	This command was introduced.

Usage Guidelines Use the **clear hardware ip verify address** command to clear packet verification tests on IPv4 and IPv6 packets based on addresses.

This command does not require a license.

Examples This example shows how to clear broadcast IPv4 packet tests:

```
switch(config)# clear hardware ip verify address # source broadcast
```


Related Commands	Command	Description
	hardware ip verify	Configures IPv4 and IPv6 packet verification checks based on checksum or fragments.
	hardware ip verify length	Configures IPv4 packet verification checks based on length.
	hardware ipv6 verify	Configures IPv6 packet verification.
	show hardware forwarding ip verify	Displays information about IP packet verification checks.

clear hardware ip verify length

To clear IPv4 packet verification tests based on packet length, use the **clear hardware ip verify length** command. To disable the tests, use the **no** form of this command.

clear hardware ip verify length { consistent | maximum { max-frag | max-tcp | udp } | minimum }

Syntax Description		
consistent		Drops IPv4 packets where the Ethernet frame size is greater than or equal to the IP packet length plus the Ethernet header.
maximum		Specifies the maximum fragment offset.
max-frag		Specifies drops to IP packets if the maximum fragment offset is greater than 65536.
max-tcp		Specifies drops to IP packets if the TCP length is greater than the IP payload length.
udp		Specifies drops to IP packets if the IP payload length is less than the UDP packet length.
minimum		Drops IP packets if the Ethernet frame length is less than the IP packet length plus four octets (the CRC length).

Defaults None

Command Modes Global configuration

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.1(3)	This command was introduced.

Usage Guidelines Use the **clear hardware ip verify length** command to clear packet verification tests on IPv4 and IPv6 packets based on packet length.

This command does not require a license.

Examples This example shows how to clear minimum-length IPv4 packet tests:

```
switch(config)# clear hardware ip verify length minimum
```

Related Commands

Command	Description
hardware ip verify	Configures IPv4 packet verification checks based on checksum or fragments.
hardware ip verify address	Configures IPv4 and IPv6 packet verification checks based on addresses.
hardware ipv6 verify	Configures IPv6 packet verification.
show hardware forwarding ip verify	Displays information about IP packet verification checks.

clear hardware proxy layer-3 counters

To clear proxylayer 3 counters information, use the **clear hardware proxy layer-3 counters** command.

clear hardware proxy layer-3 counters

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes EXEC

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	5.1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear brief proxy layer 3 counters information:

```
switch# clear hardware proxy layer-3 counters
switch#
```

Related Commands	Command	Description
	show hardware proxy layer-3 detail	Displays detail information on the proxylayer 3 functionality.

clear ip adjacency statistics

To clear adjacency statistics, use the **clear ip adjacency statistics** command.

clear ip adjacency statistics

Syntax Description This command has no keywords or arguments.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the adjacency statistics:

```
switch# clear ip adjacency statistics
```

Related Commands	Command	Description
	show ip adjacency	Displays adjacency information.

clear ip arp

To clear the Address Resolution Protocol (ARP) information, use the **clear ip arp** command.

clear ip arp [*ip-addr* | *interface*] [**force-delete** | **statistics**] [**vrf** *vrf-name*]

Syntax Description	
<i>ip-addr</i>	(Optional) IPv4 source address. The format is x.x.x.x.
<i>interface</i>	(Optional) Interface. Use ? to determine the supported interface types.
force-delete	(Optional) Clears the entries from the ARP table without a refresh.
statistics	(Optional) Clears ARP statistics.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

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.
	5.0(2)	Added force-delete keyword.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the ARP table:

```
switch# clear ip arp
```

Related Commands	Command	Description
	show ip arp	Displays information about ARP.

clear ip bgp

To clear Border Gateway Protocol (BGP) routes from the BGP table, use the **clear ip bgp** command.

```
clear ip bgp [ipv4 { unicast | multicast } { neighbor | * | as-number | peer-template name | prefix }
[vrf vrf-name]
```

Syntax Description		
ipv4	(Optional) Clears BGP information for the IPv4 address family.	
unicast	Clears BGP information for the unicast address family.	
multicast	Clears BGP information for the multicast address family.	
<i>neighbor</i>	Network address. The format is A.B.C.D for IPv4 and A:B::C:D for IPv6.	
<i>as-number</i>	Autonomous system number. The range is from 1 to 65535.	
peer-template <i>name</i>	Specifies a BGP peer template. The name can be any case-sensitive, alphanumeric string up to 63 characters.	
<i>prefix</i>	Prefix from the selected address family. The format is A.B.C.D/length for IPv4 and A:B::C:D/length for IPv6.	
vrf <i>vrf-name</i>	(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.	

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

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 all BGP entries for the IPv4 address family:

```
switch# clear ip bgp *
```

clear ip bgp dampening

To clear Border Gateway Protocol (BGP) route flap dampening information, use the **clear ip bgp dampening** command.

```
clear ip bgp {ipv4 {unicast | multicast}} dampening [neighbor | prefix] [vrf vrf-name]
```

Syntax Description		
ipv4	(Optional)	Clears BGP information for the IPv4 address family.
unicast		Clears BGP information for the unicast address family.
multicast		Clears BGP information for the multicast address family.
<i>neighbor</i>		Neighbor from the selected address family. The format is A.B.C.D for IPv4.
<i>prefix</i>		Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf vrf-name	(Optional)	Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 BGP route flap dampening information:

```
switch# clear ip bgp dampening
```


clear ip bgp flap-statistics

To clear Border Gateway Protocol (BGP) route flap statistics, use the **clear ip bgp flap-statistics** command.

```
clear ip bgp flap-statistics [neighbor | prefix] [vrf vrf-name]
```

Syntax Description		
<i>neighbor</i>		Neighbor from the selected address family. The format is A.B.C.D for IPv4.
<i>prefix</i>		Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf <i>vrf-name</i>		(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 BGP route flap statistics:

```
switch# clear ip bgp flap-statistics
```

clear ip eigrp accounting

To clear the prefix accounting information for the Enhanced Interior Gateway Routing Protocol (EIGRP) processes, use the **clear ip eigrp accounting** command.

```
clear ip eigrp [instance-tag] accounting [vrf {vrf-name | *}]
```

Syntax Description		
<i>instance-tag</i>	(Optional)	Instance tag. This option is available when a virtual routing and forwarding (VRF) instance is not specified. The instance tag can be any case-sensitive, alphanumeric string up to 63 characters.
vrf <i>vrf-name</i>	(Optional)	Specifies the name of the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-insensitive alphanumeric string up to 32 characters. The strings “default” and “all” are reserved VRF names.
vrf *	(Optional)	Specifies all VRF instances.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines This command requires the Enterprise Services license.

Examples This example shows how to clear the EIGRP accounting information:

```
switch# clear ip eigrp accounting
```

clear ip eigrp neighbors

To remove and reestablish the Enhanced Interior Gateway Routing Protocol (EIGRP) neighbor entries from the appropriate table, use the **clear ip eigrp neighbors** command in EXEC mode.

```
clear ip eigrp [instance-tag] neighbors [* | ip-address | interface-type interface-instance] [soft]
[vrf {vrf-name | *}]
```

Syntax Description	
<i>instance-tag</i>	(Optional) Instance identifier. The instance-tag can be any case-sensitive, alphanumeric string up to 63 characters.
*	(Optional) Clears all neighbors.
<i>ip-address</i>	(Optional) Address of the neighbor.
<i>interface-type</i>	(Optional) Interface type. For more information, use the question mark (?) CLI help function.
<i>interface-instance</i>	(Optional) Either a physical interface instance or a virtual interface instance. Specifying these arguments removes the specified interface type from the neighbor table that all entries learned via this interface. For more information about the interface syntax, use the question mark (?) online help function.
soft	(Optional) Specifies soft reset for the neighbors.
vrf <i>vrf-name</i> *	(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name is an alphanumeric string of up to 32 characters.

Defaults When no autonomous system number, interface, or VRF instance is specified, all EIGRP neighbor entries are cleared from the table.

Command Modes Any

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.0(3)	Added * and soft keywords.

Usage Guidelines This command requires the Enterprise Services license.

clear ip eigrp neighbors**Examples**

This example shows how to clear all EIGRP entries for neighbors on Ethernet interface 2/1:

```
switch# clear ip eigrp vrf * neighbors ethernet 2/1
```

Related Commands

Command	Description
show ip eigrp interfaces	Displays information about interfaces configured for EIGRP.
show ip eigrp neighbors	Displays the neighbors discovered by EIGRP.

clear ip eigrp policy statistics redistribute

To clear policy statistics for routes redistributed into `show ip rip policy statistics redistribute` Enhanced Interior Gateway Routing Protocol (EIGRP) topology table, use the `clear ip eigrp policy statistics redistribute` command.

```
clear ip eigrp policy statistics redistribute {bgp id | direct | eigrp id | isis id | ospf id | rip id |
static} [vrf {vrf-name | *}]
```

Syntax Description	
bgp	Clears policy statistics for the Border Gateway Protocol (BGP).
direct	Clears policy statistics for directly connected routes only.
eigrp	Clears policy statistics for EIGRP.
isis	Clears policy statistics for the Intermediate-System to Intermediate-System (IS-IS) routing protocol.
ospf	Clears policy statistics for the Open Shortest Path First (OSPF) protocol.
rip	Clears policy statistics for the Routing Information Protocol (RIP).
static	Clears policy statistics for IP static routes.
<i>id</i>	<p>For the bgp keyword, an autonomous system number. The range for 2-byte numbers is from 1 to 65535. The range for 4-byte numbers is from 1.0 to 65535.65535.</p> <p>For the eigrp keyword, an EIGRP instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.</p> <p>For the isis keyword, an IS-IS instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.</p> <p>For the ospf keyword, an OSPF instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.</p>
vrf <i>vrf-name</i> *	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

■ **clear ip eigrp policy statistics redistribute**

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.0(3)	This command was removed and replaced by the clear ip eigrp route-map statistics command.

Usage Guidelines This command requires the Enterprise Services license.

Examples This example shows how to clear policy statistics for RIP:

```
switch# clear ip eigrp policy statistics redistribute rip 201
```

Related Commands	Command	Description
	show ip eigrp policy statistics	Displays policy statistics for EIGRP.

clear ip eigrp redistribution

To clear redistribution information for Enhanced Interior Gateway Routing Protocol (EIGRP), use the **clear ip eigrp redistribution** command.

```
clear ip eigrp redistribution [vrf {vrf-name | *}]
```

Syntax Description	vrf <i>vrf-name</i> *	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.
---------------------------	--------------------------------	---

Defaults	None
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Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
----------------------------	----------------------------

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines	This command requires the Enterprise Services license.
-------------------------	--

Examples	This example shows how to clear redistribution information: <pre>switch# clear ip eigrp redistribution</pre>
-----------------	---

Related Commands	Command	Description
	feature eigrp	Enables the EIGRP feature.

clear ip eigrp traffic

To clear the Enhanced Interior Gateway Routing Protocol (EIGRP) traffic statistics, use the **clear ip eigrp traffic** command.

```
clear ip eigrp [instance-tag] traffic [vrf {vrf-name | *}]
```

Syntax Description		
<i>instance-tag</i>	(Optional) Instance of EIGRP. The instance tag can be any case-sensitive, alphanumeric string up to 63 characters.	
vrf <i>vrf-name</i>	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-insensitive alphanumeric string up to 32 characters. The strings “default” and “all” are reserved VRF names.	
vrf *	(Optional) Specifies all VRF instances.	

Defaults This command clears information for the default VRF if no VRF is specified.

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines This command requires the Enterprise Services license.

Examples This example shows how to clear the EIGRP traffic statistics:

```
switch# clear ip eigrp traffic
```


clear ip interface statistics

To clear IP interface statistics, use the **clear ip interface statistics** command.

clear ip interface statistics

Syntax Description This command has no keywords or arguments.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the IP interface statistics:

```
switch# clear ip interface statistics
```

Related Commands	Command	Description
	show ip interface	Displays IP interface information.

clear ip mbgp

To clear Multiprotocol Border Gateway Protocol (MBGP) routes from the BGP table, use the **clear ip mbgp** command.

```
clear ip mbgp {neighbor | * | as-number | peer-template name | prefix} [vrf vrf-name]
```

Syntax Description		
<i>neighbor</i>		Network address. The format is A.B.C.D for IPv4.
<i>as-number</i>		Autonomous system number. The range is from 1 to 65535.
peer-template <i>name</i>		Specifies a BGP peer template. The name can be any case-sensitive, alphanumeric string up to 63 characters.
<i>prefix</i>		Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf <i>vrf-name</i>		(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults	None
-----------------	------

Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
----------------------------	----------------------------

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 all MBGP entries for the IPv4 address family: <pre>switch# clear ip mbgp *</pre>
-----------------	--

clear ip mbgp dampening

To clear Multiprotocol Border Gateway Protocol (MBGP) route flap dampening information, use the **clear ip mbgp dampening** command.

```
clear ip mbgp dampening {neighbor | prefix} [vrf vrf-name]
```

Syntax Description		
<i>neighbor</i>		Neighbor from the selected address family. The format is A.B.C.D for IPv4.
<i>prefix</i>		Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf <i>vrf-name</i>		(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 MBGP route flap dampening information:

```
switch# clear ip mbgp dampening
```

clear ip mbgp flap-statistics

To clear Multiprotocol Border Gateway Protocol (MBGP) route flap statistics, use the **clear ip mbgp flap-statistics** command.

clear ip mbgp flap-statistics {*neighbor* | *prefix*} [**vrf** *vrf-name*]

Syntax Description		
<i>neighbor</i>		Neighbor from the selected address family. The format is A.B.C.D for IPv4.
<i>prefix</i>		Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
vrf <i>vrf-name</i>		(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 MBGP route flap statistics:

```
switch# clear ip mbgp flap-statistics
```

clear ip ospf neighbor

To clear neighbor statistics and reset adjacencies for Open Shortest Path First (OSPF), use the **clear ip ospf neighbor** command.

```
clear ip ospf [instance-tag] neighbor { * | neighbor-id | interface-type number | loopback number | port-channel number } [vrf vrf-name]
```

Syntax Description		
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.	
*	Clears all neighbors.	
<i>neighbor-id</i>	Neighbor ID (as an IP address) of the neighbor to clear.	
<i>interface-type number</i>	Interface from which to clear all neighbors.	
loopback <i>number</i>	Clears all neighbors on a loopback interface.	
port-channel <i>number</i>	Clears all neighbors on a port-channel interface.	
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.	

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear ip ospf neighbor** command to clear neighbor information from the **show ip ospf neighbor** command. Use the *instance-tag* argument to clear the neighbor details from one OSPF instance. If you do not use the *instance-tag* argument, Cisco NX-OS clears the neighbor details from all OSPF instances. Use the **show ip ospf neighbor** command to find the neighbor ID.

This command requires the Enterprise Services license.

Examples This example shows how to clear all OSPF neighbor details for neighbor 192.0.2.1 for instance tag 201:

```
switch# clear ip ospf 201 neighbor 192.0.2.1
```

clear ip ospf neighbor

This example shows how to clear all OSPF neighbor details for all OSPF instances:

```
switch# clear ip ospf neighbor *
```

This example shows how to clear all OSPF neighbor details for all neighbors on Ethernet interface 1/2 for OSPF instance 202:

```
switch# clear ip ospf 202 neighbor ethernet 1/2
```

Related Commands

Command	Description
show ip ospf neighbor	Displays details for OSPF neighbors including the neighbor ID.

clear ip ospf policy statistics

To clear policy statistics for Open Shortest Path First (OSPF), use the **clear ip ospf policy statistics** command.

```
clear ip ospf [instance-tag] policy statistics {area area-id filter-list {in | out} | redistribute {bgp
autonomous-system | direct | eigrp id | isis id | ospf id | rip id | static}} [vrf vrf-name]
```

Syntax	Description
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.
area	Clears policy statistics for an area.
<i>area-id</i>	Area ID as an integer or IP address.
filter-list	Specifies the policy statistics for filtered prefixes between OSPF areas.
in	Filters prefixes sent into this OSPF area.
out	Filters prefixes sent from this OSPF area.
redistribution	Clears OSPF route redistribution statistics.
bgp <i>autonomous-system</i>	Specifies the autonomous system number for the Border Gateway Protocol. Specify the autonomous system number as <i>x.y</i> , where the range is from 1 to 65535 for both <i>x</i> and <i>y</i> , or as a single integer, where the range is from 1 to 65535.
direct	Specifies directly connected routes.
eigrp <i>id</i>	Specifies the autonomous system number for the Enhanced Interior Gateway Protocol. Specify the <i>id</i> argument as any case-sensitive, alphanumeric string.
isis <i>id</i>	Specifies the Intermediate System to Intermediate System instance. Specify the <i>id</i> argument as any case-sensitive, alphanumeric string.
ospf <i>id</i>	Specifies the Open Shortest Path First version 2 instance. Specify the <i>id</i> argument as any case-sensitive, alphanumeric string.
rip <i>id</i>	Specifies the Routing Information Protocol instance. Specify the <i>id</i> argument as any case-sensitive, alphanumeric string.
static	Specifies static routes.
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

■ clear ip ospf policy statistics

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear ip ospf statistics** command to learn the policy statistics shown in the **show ip ospf policy statistics** command. Use the *instance-tag* argument to clear the policy statistics from one OSPF instance. If you do not specify the instance tag.

Cisco NX-OS clears the policy statistics from all OSPF instances. Use the **show ip ospf policy statistics** command to view the statistics that you are clearing.

This command requires the Enterprise Services license.

Examples This example shows how to clear all OSPF policy statistics for area 99 inbound filtered routes for OSPF 201:

```
switch# clear ip ospf 201 policy statistics area 99 filter-list in
```

This example shows how to clear all OSPF policy statistics for all BGP redistributed routes for OSPF 202:

```
switch# clear ip ospf 202 policy statistics redistribute bgp
```

Related Commands	Command	Description
	show ip ospf policy statistics	Displays details for OSPF policies.

clear ip ospf redistribution

To clear redistribution information for Open Shortest Path First (OSPF), use the **clear ip ospf redistribution** command.

```
clear ip ospf redistribution [vrf {vrf-name | *}]
```

Syntax Description	vrf <i>vrf-name</i> *	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.
Defaults	None	
Command Modes	Any	
Supported Use Roles	network-admin vdc-admin	
Command History	Release	Modification
	4.2(1)	This command was introduced.
Usage Guidelines	This command requires the Enterprise Services license.	
Examples	This example shows how to clear redistribution information: <pre>switch# clear ip ospf redistribution</pre>	
Related Commands	Command	Description
	feature ospf	Enables the OSPF feature.

clear ip ospf statistics

To clear Open Shortest Path First (OSPF) event statistics, use the **clear ip ospf statistics** command.

```
clear ip ospf [instance-tag] statistics [vrf vrf-name]
```

Syntax Description	<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.
	vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.

Defaults	None
-----------------	------

Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	<p>Use the clear ip ospf statistics command to clear the event statistics from one or more OSPF instances. If you do not specify the <i>instance-tag</i> argument, Cisco NX-OS clears statistics from all OSPF instances. Use the show ip ospf statistics command to view the statistics that you are clearing.</p> <p>This command requires the Enterprise Services license.</p>
-------------------------	---

Examples	<p>This example shows how to clear all OSPF event statistics:</p> <pre>switch# clear ip ospf statistics</pre>
-----------------	---

Related Commands	Command	Description
	show ip ospf statistics	Displays event statistics for OSPF.

clear ip ospf traffic

To clear Open Shortest Path First (OSPF) traffic statistics, use the **clear ip ospf traffic** command.

```
clear ip ospf [instance-tag] traffic [interface] [vrf vrf-name]
```

Syntax	Description
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.
<i>interface</i>	(Optional) Interface to clear traffic statistics for. Use the ? option to see the interface options.
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.0(3)	Added <i>interface</i> argument.

Usage Guidelines Use the **clear ip ospf traffic** command to clear the traffic statistics from one or more OSPF instances. If you do not specify the *instance-tag* argument, Cisco NX-OS clears traffic statistics from all OSPF instances. Use the **show ip ospf traffic statistics** command to view the statistics that you are clearing. This command requires the Enterprise Services license.

Examples This example shows how to clear OSPF traffic statistics for OSPF 100:

```
switch# clear ip ospf 100 traffic
```

Related Commands	Command	Description
	show ip ospf traffic statistics	Displays OSPF traffic statistics.

clear ip rip policy statistics redistribute

To clear policy statistics for routes redistributed into the the Routing Information Protocol (RIP) topology table, use the **clear ip rip policy statistics redistribute** command in any mode.

```
clear ip rip policy statistics redistribute {bgp id | direct | eigrp id | isis id | ospf id | ospfv3 id | static} [vrf vrf-name]
```

Syntax Description	
bgp	Clears policy statistics for the Border Gateway Protocol (BGP).
direct	Clears policy statistics for directly connected routes only.
eigrp	Clears policy statistics for the Enhanced Interior Gateway Routing Protocol (EIGRP).
isis	Clears policy statistics for the Intermediate-System to Intermediate-System (IS-IS) routing protocol.
ospf	Clears policy statistics for the Open Shortest Path First (OSPF) protocol.
ospfv3	Clears policy statistics for the Open Shortest Path First version 3 (OSPFv3) protocol.
static	Clears policy statistics for IP static routes.
<i>id</i>	For the bgp keyword, an autonomous system number. The range for 2-byte numbers is from 1 to 65535. The range for 4-byte numbers is from 1.0 to 65535.65535. For the eigrp keyword, an EIGRP instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. For the isis keyword, an IS-IS instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. For the ospf keyword, an OSPF instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.
vrf <i>vrf-name</i>	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. Length is up to 32 alphanumeric characters.

Defaults This command has no default settings.

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear policy statistics for EIGRP:

```
switch# clear ip rip policy statistics redistribute eigrp 201
```

Related Commands	Command	Description
	<code>show ip rip policy statistics</code>	Displays policy statistics for RIP.

clear ip rip statistics

To clear the the Routing Information Protocol (RIP) statistics, use the **clear ip rip statistics** command in any mode.

clear ip rip statistics [*interface type instance*] [*vrf vrf-name*]

Syntax Description	interface <i>type instance</i>	(Optional) Specifies the interface to clear topology entries.
	vrf <i>vrf-name</i>	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is up to 32 alphanumeric characters.

Defaults This command has no default settings.

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear all RIP statistics:

```
switch# clear ip rip statistics
```

Related Commands	Command	Description
	show rip statistics	Displays database and interface entry information for the RIP process.

clear ip route

To clear individual routes from the unicast RIB, use the **clear ip route** command.

```
clear ip route [* | addr | prefix] [vrf vrf-name]
```

Syntax	Description
*	(Optional) Clears all routes.
<i>addr</i>	(Optional) Clears this route. The format is x.x.x.x.
<i>prefix</i>	(Optional) Clears this prefix. The format is x.x.x.x/length.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any command mode

Supported Users/Roles
 network-admin
 network-operator
 vdc-admin
 vdc-operator

Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines Use the **clear ip route** command to clear individual routes from the route table.



Note The * keyword is severely disruptive to routing.

This command does not require a license.

Examples This example shows how to clear the individual route:

```
switch(config)# clear ip route 192.0.2.1
```

Related Commands	Command	Description
	show ip route	Displays entries in the route table.

clear ip traffic

To clear IP traffic information, use the **clear ip traffic** command.

clear ip traffic

Syntax Description This command has no keywords or arguments.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the IP traffic information:

```
switch(config)# clear ip traffic
```

Related Commands	Command	Description
	show ip traffic	Displays IP traffic information.

clear ip wccp

To remove Web Cache Communication Protocol (WCCP) statistics (counts) maintained on the router for a particular service, use the **clear ip wccp** command.

```
clear ip wccp [vrf vrf-name] [service-number | web-cache]
```

Syntax Description	
vrf <i>vrf-name</i>	(Optional) Specifies the VRF in which the service group needs to be created. If no VRF is specified, then the service number is created in the default global VRF. The <i>vrf-name</i> can be any case-sensitive, alphanumeric string up to 32 characters.
<i>service-number</i>	Dynamic service identifier. The <i>service-number</i> range is from 1 to 255.
web-cache	Specifies the web-cache well-known service.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	5.2(0) to 6.1(0)	This command has been deprecated from 5.2(0) to 6.1(0) onwards.
	4.2(1)	This command was introduced.

Usage Guidelines Use the **clear ip wccp** command to clear the WCCP statistics.
This command does not require a license.

Examples This example shows how to clear the WCCP statistics for the web cache service:

```
switch(config)# clear ip wccp web-cache
```

Related Commands	Command	Description
	feature wccp	Enables the WCCP feature.
	ip wccp	Enables WCCP redirection for a service.
	show ip wccp	Displays global statistics related to WCCP.

clear ipv6 adjacency statistics

To clear adjacency statistics, use the **clear ipv6 adjacency statistics** command.

clear ipv6 adjacency statistics

Syntax Description This command has no keywords or arguments.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the adjacency statistics:

```
switch# clear ipv6 adjacency statistics
```

Related Commands	Command	Description
	show ipv6 adjacency	Displays adjacency information.

clear ipv6 eigrp accounting

To clear the prefix accounting information for the Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv6 processes, use the **clear ipv6 eigrp accounting** command.

```
clear ipv6 eigrp [instance-tag] accounting [vrf {vrf-name | *}]
```

Syntax Description		
<i>instance-tag</i>	(Optional)	Instance tag. This option is available when a virtual routing and forwarding (VRF) instance is not specified. The instance tag can be any case-sensitive, alphanumeric string up to 63 characters.
vrf <i>vrf-name</i>	(Optional)	Specifies the name of the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-insensitive alphanumeric string up to 32 characters. The strings “default” and “all” are reserved VRF names.
vrf *	(Optional)	Specifies all VRF instances.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 EIGRP accounting information:

```
switch# clear ipv6 eigrp accounting
```

clear ipv6 eigrp neighbors

To remove and reestablish the Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv6 neighbor entries from the appropriate table, use the **clear ipv6 eigrp neighbors** command in EXEC mode.

```
clear ipv6 eigrp [instance-tag] neighbors [* | ipv6-address | interface-type interface-instance]
[soft] [vrf {vrf-name | *}]
```

Syntax Description

<i>instance-tag</i>	(Optional) Instance identifier. The <i>instance-tag</i> can be any case-sensitive, alphanumeric string up to 63 characters.
*	(Optional) Clears all neighbors.
<i>ipv6-address</i>	(Optional) Address of the neighbor. The format is A:B::C:D.
<i>interface-type</i>	(Optional) Interface type. For more information, use the question mark (?) CLI help function.
<i>interface-instance</i>	(Optional) Either a physical interface instance or a virtual interface instance. Specifying these arguments removes the specified interface type from the neighbor table that all entries learned through this interface. For more information about the interface syntax, use the question mark (?) online help function.
soft	(Optional) Specifies a soft reset for the neighbors.
vrf <i>vrf-name</i> *	(Optional) Specifies a particular VPN routing and forwarding instance (VRF) or all VRF instances. The VRF name is an alphanumeric string of up to 32 characters.

Defaults

Clears all instances if no instance is specified. Clears the default VRF if no VRF is specified.

Command Modes

Any

Supported Use Roles

network-admin
vdc-admin

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 all EIGRP entries for neighbors on Ethernet interface 2/1:

```
switch# clear ipv6 eigrp vrf * neighbors ethernet 2/1
```

Related Commands	Command	Description
	show ipv6 eigrp interfaces	Displays information about interfaces configured for EIGRP.
	show ipv6 eigrp neighbors	Displays the neighbors discovered by EIGRP.

clear ipv6 eigrp route-map statistics redistribute

To clear statistics for routes redistributed into the Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv6 topology table, use the **clear ipv6 eigrp route-map statistics redistribute** command.

```
clear ipv6 eigrp route-map statistics redistribute {bgp id | direct | eigrp id | isis id | ospfv3 id |
rip id | static} [vrf {vrf-name | *}]
```

Syntax Description	
bgp	Clears policy statistics for the Border Gateway Protocol (BGP).
direct	Clears policy statistics for directly connected routes only.
eigrp	Clears policy statistics for EIGRP.
isis	Clears policy statistics for the Intermediate-System to Intermediate-System (IS-IS) routing protocol.
ospfv3	Clears policy statistics for the Open Shortest Path First (OSPF) version 3 protocol.
rip	Clears policy statistics for the Routing Information Protocol (RIP).
static	Clears policy statistics for IP static routes.
<i>id</i>	For the bgp keyword, the <i>id</i> is an autonomous system number. The range for 2-byte numbers is from 1 to 65535. The range for 4-byte numbers is from 1.0 to 65535.65535. For the eigrp keyword, the <i>id</i> is an EIGRP instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. For the isis keyword, the <i>id</i> is an IS-IS instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. For the ospf keyword, the <i>id</i> is an OSPF instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.
vrf vrf-name *	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 policy statistics for RIP:

```
switch# clear ipv6 eigrp route-map statistics redistribute rip 201
```

Related Commands	Command	Description
	show ipv6 eigrp route-map statistics	Displays redistribution statistics for EIGRP.

clear ipv6 eigrp redistribution

To clear redistribution information for Enhanced Interior Gateway Routing Protocol (EIGRP), use the **clear ipv6 eigrp redistribution** command.

```
clear ipv6 eigrp redistribution [vrf {vrf-name | *}]
```

Syntax Description	vrf <i>vrf-name</i> *	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.
---------------------------	--------------------------------	---

Defaults	None
-----------------	------

Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
----------------------------	----------------------------

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines	This command requires the Enterprise Services license.
-------------------------	--

Examples	This example shows how to clear redistribution information: <pre>switch# clear ipv6 eigrp redistribution</pre>
-----------------	---

Related Commands	Command	Description
	feature eigrp	Enables the EIGRP feature.

clear ipv6 eigrp traffic

To clear the Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv6 traffic statistics, use the **clear ipv6 eigrp traffic** command.

```
clear ipv6 eigrp [instance-tag] traffic [vrf {vrf-name | *}]
```

Syntax Description		
<i>instance-tag</i>	(Optional)	Instance of EIGRP. The instance tag can be any case-sensitive, alphanumeric string up to 63 characters.
vrf <i>vrf-name</i>	(Optional)	Specifies the name of the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-insensitive alphanumeric string up to 32 characters. The strings “default” and “all” are reserved VRF names.
vrf *	(Optional)	Specifies all VRF instances.

Defaults This command clears information for the default VRF if no VRF is specified.

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 EIGRP traffic statistics:

```
switch# clear ipv6 eigrp traffic
```

clear ipv6 icmp interface statistics

To clear statistics about ICMPv6, use the **clear ipv6 icmp interface statistics** command.

clear ipv6 icmp interface statistics [*type number*]

Syntax Description	<i>type</i>	(Optional) Interface type. Use ? to see the list of supported interfaces.
	<i>number</i>	(Optional) Interface number. Use ? to see the range.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the ICMPv6 statistics:

```
switch(config-if)# clear ipv6 icmp interface statistics
```

Related Commands	Command	Description
	ipv6 icmp	Configures ICMPv6 on an interface.

clear ipv6 nd interface statistics

To clear information about Neighbor Discovery (ND), use the **clear ipv6 nd interface statistics** command.

clear ipv6 nd interface statistics [*type number*]

Syntax Description	
<i>type</i>	(Optional) Interface type. Use ? to see the list of supported interfaces.
<i>number</i>	(Optional) Interface number. Use ? to see the range.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the ND information:

```
switch(config-if)# clear ipv6 nd interface statistics
```

Related Commands	Command	Description
	ipv6 nd	Configures ICMPv6 ND on an interface.

clear ipv6 neighbor

To clear IPv6 neighbors, use the **clear ipv6 neighbor** command.

clear ipv6 neighbor [*type number*] [**force-clear**] [**vrf** *vrf-name*]

Syntax Description	
<i>type</i>	(Optional) Interface type. Use ? to see the list of supported interfaces.
<i>number</i>	(Optional) Interface number. Use ? to see the range.
force-clear	(Optional) Clears the IPv6 neighbor cache without a refresh.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any command mode

Supported Use Roles

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

Command History	Release	Modification
	4.2(1)	Added force-clear keyword.
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear ipv6 neighbor** command to clear the IPv6 adjacency table. This command does not require a license.

Examples This example shows how to clear the IPv6 neighbors:

```
switch# clear ipv6 neighbor
```

Related Commands	Command	Description
	ipv6 nd	Configures ICMPv6 ND on an interface.

clear ipv6 route

To clear individual routes from the unicast RIB, use the **clear ipv6 route** command.

```
clear ipv6 route [* | addr | prefix] [vrf vrf-name]
```

Syntax Description	
*	(Optional) Clears all routes.
<i>addr</i>	(Optional) Clears this route. The format is A:B::C:D.
<i>prefix</i>	(Optional) Clears this prefix. The format is A:B::C:D/length.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

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 Use the **clear ipv6 route** command to clear individual routes from the route table.



Note The * keyword is severely disruptive to routing.

This command does not require a license.

Examples This example shows how to clear the individual route:

```
switch(config)# clear ipv6 route 2001:0DB8::/8
```

Related Commands	Command	Description
	show ipv6 route	Displays entries in the route table.

clear ipv6 traffic

To clear IPv6 traffic information, use the **clear ipv6 traffic** command.

clear ipv6 traffic

Syntax Description This command has no keywords or arguments.

Defaults None

Command Modes Any command mode

Supported Use Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear the IPv6 traffic information:

```
switch(config)# clear ip traffic
```

Related Commands	Command	Description
	show ipv6 traffic	Displays IPv6 traffic information.

clear isis adjacency

To clear adjacency information for Intermediate-System-to-Intermediate System (IS-IS), use the **clear isis adjacency** command.

```
clear isis [instance-tag] adjacency [* | interface | system-id sid] [vrf vrf-name]
```

Syntax Description	
<i>instance-tag</i>	(Optional) Name of the IS-IS instance. The name can be any case-sensitive, alphanumeric string up to 63 characters.
*	(Optional) Clears all adjacency information for all interfaces.
<i>interface</i>	(Optional) Interface. Use ? to determine the supported interface types.
system-id <i>sid</i>	(Optional) Clears the adjacency information for this system ID. The <i>sid</i> format is XXXX.XXXX.XXXX.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

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 all the adjacency information:

```
switch# clear isis adjacency *
```

Related Commands	Command	Description
	feature isis	Enables IS-IS on the router.
	router isis	Enables IS-IS.

clear isis ip route-map statistics redistribute

To clear statistics for route redistribution for Intermediate-System-to-Intermediate System (IS-IS), use the **clear isis ip route-map statistics redistribute** command.

```
clear isis [instance-tag] ip route-map statistics redistribute {bgp id | direct | eigrp id | isis id |
ospf id | rip id | static} [vrf vrf-name]
```

Syntax Description	
<i>instance-tag</i>	(Optional) Name of the IS-IS instance. Specify as an alphanumeric string.
bgp	Clears statistics for the Border Gateway Protocol (BGP).
direct	Clears statistics for directly connected routes only.
eigrp	Clears statistics for the Enhanced Interior Gateway Protocol (EIGRP) routing protocol.
isis	Clears statistics for the Intermediate-System to Intermediate-System (IS-IS) routing protocol.
ospf	Clears statistics for the Open Shortest Path First (OSPF) protocol.
rip	Clears statistics for the Routing Information Protocol (RIP).
static	Clears statistics for IP static routes.
<i>id</i>	For the bgp keyword, an autonomous system number. The range for 2-byte numbers is from 1 to 65535. The range for 4-byte numbers is from 1.0 to 65535.65535. For the isis , eigrp , and rip keywords, an instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string.
vrf <i>vrf-name</i>	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-insensitive alphanumeric string up to 32 characters. The strings “default” and “all” are reserved VRF names.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

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 display policy statistics for redistributed routes:

```
switch# clear isis ip route-map statistics redistribute bgp
```

Related Commands

Command	Description
feature isis	Enables IS-IS on the router.
router isis	Enables IS-IS.

clear isis redistribution

To clear redistribution information for Intermediate-System-to-Intermediate System (IS-IS), use the **clear isis redistribution** command.

```
clear isis [instance-tag] redistribution [vrf {vrf-name | all}]
```

Syntax Description	<i>instance-tag</i>	(Optional) Name of the IS-IS instance. Specify as an alphanumeric string.
	vrf <i>vrf-name</i> all	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.

Defaults	None
-----------------	------

Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
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Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines	This command requires the Enterprise Services license.
-------------------------	--

Examples	This example shows how to clear the redistribution information:
-----------------	---

```
switch# clear isis redistribution
```

Related Commands	Command	Description
	feature isis	Enables the IS-IS feature.

clear isis route-map statistics distribute

To clear statistics for route distribution between level-1 and level-2 areas for Intermediate-System-to-Intermediate System (IS-IS), use the **clear isis route-map statistics distribute** command.

```
clear isis [instance-tag] [ip | ipv6] route-map statistics distribute [level-1 | level-2] into [level-1 | level-2] [vrf vrf-name]
```

Syntax Description	
<i>instance-tag</i>	(Optional) Name of the IS-IS instance. The name can be any case-sensitive, alphanumeric string up to 63 characters.
ip	(Optional) Clears statistics for IPv4.
ipv6	(Optional) Clears statistics for IPv6.
level-1	(Optional) Clears Level 1 distribution statistics.
level-2	(Optional) Clears Level 2 distribution statistics.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

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 the distribution information:

```
switch# clear isis route-map statistics distribute level-1 into level 2
```

Related Commands	Command	Description
	feature isis	Enables IS-IS on the router.
	router isis	Enables IS-IS.

clear isis statistics

To clear statistics for Intermediate-System-to-Intermediate System (IS-IS), use the **clear isis statistics** command.

```
clear isis [instance-tag] statistics [* | interface] [vrf vrf-name]
```

Syntax Description	
<i>instance-tag</i>	(Optional) Name of the IS-IS instance. The name can be any case-sensitive, alphanumeric string up to 63 characters.
*	(Optional) Clears the statistics for all interfaces.
<i>interface</i>	(Optional) Interface name and interface number. Use ? to see a list of interfaces.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

Defaults None

Command Modes Any command mode

Supported Use 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 the IS-IS statistics:

```
switch# clear isis statistics ethernet 7/45
```

Related Commands	Command	Description
	feature isis	Enables IS-IS on the router.
	router isis	Enables IS-IS.

clear isis traffic

To clear traffic statistics for Intermediate-System-to-Intermediate System (IS-IS), use the **clear isis traffic** command.

```
clear isis [instance-tag] traffic [* | interface] [vrf vrf-name]
```

Syntax Description	
<i>instance-tag</i>	(Optional) Name of the IS-IS instance. The name can be any case-sensitive, alphanumeric string up to 63 characters.
*	(Optional) Clears the traffic statistics for all interfaces.
<i>interface</i>	(Optional) Interface name and interface number. Use ? to see a list of interfaces.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters.

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 the traffic statistics:

```
switch# clear isis traffic ethernet 7/45
```

```
IS-IS process: test1
VRF: default
IS-IS Traffic for Ethernet7/45:
%PDU      Received      Sent  RcvAuthErr  OtherRcvErr  ReTransmit
LAN-IIH   0             0     0           0             n/a
P2P-IIH   0             0     0           0             n/a
CSNP      0             0     0           0             n/a
PSNP      0             0     0           0             n/a
LSP       0             0     0           0             0
```

clear isis traffic

Related Commands	Command	Description
	feature isis	Enables IS-IS on the router.
	router isis	Enables IS-IS.

clear ospfv3 neighbor

To clear neighbor statistics and reset adjacencies for Open Shortest Path First version 3 (OSPFv3), use the **clear ospfv3 neighbor** command.

```
clear ospfv3 [instance-tag] neighbor { * | neighbor-id | interface-type number | loopback number | port-channel number } [vrf vrf-name]
```

Syntax Description		
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 32 characters.	
*	Clears all neighbors.	
<i>neighbor-id</i>	Neighbor ID (as an IP address) of the neighbor to clear.	
<i>interface-type number</i>	Interface from which to clear all neighbors.	
loopback <i>number</i>	Clears all neighbors on a loopback interface.	
port-channel <i>number</i>	Clears all neighbors on a port-channel interface.	
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPFv3 virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string up to 32 characters, except “default” and “all”.	

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear ospfv3 neighbor** command to clear neighbor information from the **show ospfv3 neighbors** command. Use the *instance-tag* argument to clear the neighbor details from one OSPFv3 instance. If you do not use the *instance-tag* argument, Cisco NX-OS clears the neighbor details from all OSPFv3 instances. Use the **show ospfv3 neighbors** command to find the neighbor ID.

This command requires the Enterprise Services license.

Examples This example shows how to clear all OSPFv3 neighbor details for neighbor 192.0.2.1 for instance tag 201:

```
switch# clear ospfv3 201 neighbor 192.0.2.1
```

clear ospfv3 neighbor

This example shows how to clear all OSPFv3 neighbor details for all OSPFv3 instances:

```
switch# clear ospfv3 neighbor *
```

This example shows how to clear all OSPFv3 neighbor details for all neighbors on Ethernet interface 1/2 for OSPFv3 instance 202:

```
switch# clear ospfv3 202 neighbor ethernet 1/2
```

Related Commands

Command	Description
show ospfv3 neighbor	Displays details for OSPFv3 neighbors including the neighbor ID.

clear ospfv3 policy statistics

To clear policy statistics for Open Shortest Path First version 3 (OSPFv3), use the **clear ospfv3 policy statistics** command.

```
clear ospfv3 [instance-tag] policy statistics {area area-id filter-list {in | out} | redistribute {bgp
autonomous-system | direct | eigrp id | isis id | rip id | static}} [vrf vrf-name]
```

Syntax	Description
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 32 characters.
area	Clears policy statistics for an area.
<i>area-id</i>	Area ID as an integer or IP address.
filter-list	Specifies the policy statistics for filtered prefixes between OSPFv3 areas.
in	Filters prefixes sent into this OSPFv3 area.
out	Filters prefixes sent from this OSPFv3 area.
redistribution	Clears OSPFv3 route redistribution statistics.
bgp <i>autonomous-system</i>	Specifies the autonomous system number for the Border Gateway Protocol. Specify the autonomous system number as <i>x.y</i> , where the range is from 1 to 65535 for both <i>x</i> and <i>y</i> , or as a single integer, where the range is from 1 to 65535.
direct	Specifies directly connected routes.
eigrp <i>id</i>	Specifies the EIGRP instance. Specify the <i>id</i> argument as any alphanumeric string.
isis <i>id</i>	Specifies the Intermediate System to Intermediate System instance. Specify the <i>id</i> argument as any alphanumeric string.
rip <i>id</i>	Specifies the Routing Information Protocol instance. Specify the <i>id</i> argument as any alphanumeric string.
static	Specifies static routes.
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPFv3 virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string up to 32 characters, except “default” and “all”.

Defaults None

Command Modes Any

Supported Use Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear ospfv3 statistics** command to learn the policy statistics shown in the **show ospfv3 policy statistics** command. Use the *instance-tag* argument to clear the policy statistics from one OSPFv3 instance.

Cisco NX-OS clears the policy statistics from all OSPFv3 instances. Use the **show ospfv3 policy statistics** command to view the statistics that you are clearing.

This command requires the Enterprise Services license.

Examples This example shows how to clear all OSPFv3 policy statistics for area 99 inbound filtered routes for OSPFv3 201:

```
switch# clear ospfv3 201 policy statistics area 99 filter-list in
```

This example shows how to clear all OSPFv3 policy statistics for all BGP redistributed routes for OSPFv3 202:

```
switch# clear ospfv3 202 policy statistics redistribute bgp
```

Related Commands	Command	Description
	show ospfv3 policy statistics	Displays details for OSPFv3 policies.

clear ospfv3 statistics

To clear Open Shortest Path First version 3 (OSPFv3) event statistics, use the **clear ospfv3 statistics** command.

```
clear ospfv3 [instance-tag] statistics [vrf vrf-name]
```

Syntax	Description
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 32 characters.
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPFv3 virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string up to 32 characters, except “default” and “all”.

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear ospfv3 statistics** command to clear the event statistics from one or more OSPFv3 instances. If you do not specify the *instance-tag* argument, Cisco NX-OS clears statistics from all OSPFv3 instances. Use the **show ospfv3 statistics** command to view the statistics that you are clearing.

This command requires the Enterprise Services license.

Examples This example shows how to clear all OSPFv3 event statistics:

```
switch# clear ospfv3 statistics
```

Related Commands	Command	Description
	show ospfv3 statistics	Displays event statistics for OSPFv3.

clear ospfv3 traffic

To clear Open Shortest Path First version 3 (OSPFv3) traffic statistics, use the **clear ospfv3 traffic** command.

```
clear ospfv3 [instance-tag] traffic [vrf vrf-name]
```

Syntax Description		
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 32 characters.	
vrf <i>vrf-name</i>	(Optional) Specifies the name of the OSPFv3 virtual routing and forwarding instance (VRF). The <i>vrf-name</i> argument can be any alphanumeric string up to 32 characters, except “default” and “all”.	

Defaults	
None	

Command Modes	
Any	

Supported Use Roles	
network-admin vdc-admin	

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	
Use the clear ospfv3 traffic command to clear the traffic statistics from one or more OSPFv3 instances. If you do not specify the <i>instance-tag</i> argument, Cisco NX-OS clears traffic statistics from all OSPFv3 instances. Use the show ospfv3 traffic statistics command to view the statistics that you are clearing. This command requires the Enterprise Services license.	

Examples	
This example shows how to clear OSPFv3 traffic statistics for OSPFv3 100:	
	<pre>switch# clear ospfv3 100 traffic</pre>

Related Commands	Command	Description
	show ospfv3 traffic statistics	Displays OSPFv3 traffic statistics.

clear route-map pbr-statistics

To clear policy-based statistics for a route map, use the **clear route-map pbr statistics** command..

clear route-map *name* **pbr-statistics**

Syntax Description	<i>name</i>	Name of the route map. The name can be any alphanumeric string up to 63 characters.
---------------------------	-------------	---

Defaults	None
-----------------	------

Command Modes	Any
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Supported Use Roles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **clear route-map pbr-statistics** command to clear policy-based routing statistics enabled by the **route-map pbr-statistics** command.

This command requires the Enterprise Services license.

Examples This example shows how to clear the policy-based routing statistics for a route map:

```
switch# clear route-map testmap pbr-statistics
```

Related Commands	Command	Description
	route-map pbr-statistics	Enables policy-based routing statistics for a route map.

clear sockets statistics

To clear the socket statistics, use the **clear sockets statistics** command.

clear sockets statistics [**all** | **raw** | **raw6** | **tcp** | **tcp6** | **udp** | **udp6**]

Syntax Description	
all	(Optional) Clears all the socket statistics.
raw	(Optional) Clears the socket statistic for the raw IPv4 protocols.
raw6	(Optional) Clears the socket statistic for the raw IPv6 protocols.
tcp	(Optional) Clears the socket statistic for the TCP IPv4 protocols.
tcp6	(Optional) Clears the socket statistic for the TCP IPv6 protocols.
udp	(Optional) Clears the socket statistic for the UDP IPv4 protocols.
udp6	(Optional) Clears the socket statistic for the UDP IPv6 protocols.

Defaults None

Command Modes Any command mode

Supported Use 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 the TCP socket statistics:

```
switch# clear sockets statistics tcp
```

Related Commands	Command	Description
	show sockets statistics	Displays information about the socket statistics.
	show sockets client	Displays information about the socket client information.
	show sockets connection	Displays information about the socket connection.

clear vrrp

To clear the Virtual Router Redundancy Protocol (VRRP) statistics, use the **clear vrrp** command.

```
clear vrrp {statistics | [ipv4 | vr id] interface if-number}
```

Syntax Description		
	statistics	(Optional) Clears all VRRP statistics.
	ipv4	(Optional) Clears VRRP statistics on an interface.
	vr id	(Optional) Clears VRRP statistics in a VRRP group on an interface.
	interface <i>if-number</i>	(Optional) Clears VRRP statistics on an interface. Use ? to see a list of supported interfaces.

Defaults None

Command Modes Any

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to clear VRRP statistics:

```
switch(config)# clear vrrp
```

Related Commands	Command	Description
	feature vrrp	Enables the VRRP feature.
	clear vrrp	Clears VRRP statistics.

confederation

To configure the confederation parameters for the Border Gateway Protocol (BGP, use the **confederation** command.

confederation { **identifier** | **peers** } *as-number*

Syntax Description	Parameter	Description
	identifier	Sets the routing domain confederation AS number.
	peers	Sets the peer AS numbers for a BGP confederation.
	<i>as-number</i>	Autonomous system number. The AS number can be a 16-bit integer or a 32-bit integer in the form of <higher 16-bit decimal number>.<lower 16-bit decimal number>.

Defaults None

Command Modes Router configuration
Router VRF mode

Supported Use Roles network-admin
vdc-admin

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 configure the confederation identifier:

```
switch# config t
switch(config)# router bgp 65536.33
switch(config-router)# confederation identifier 65536.33
```

Related Commands	Command	Description
	show bgp	Displays information about BGP.