C Commands

This chapter describes the Cisco NX-OS Open Shortest Path First (OSPF) commands that begin with C.

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

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

Command Default

None

Command Modes

Release	Modification
5.0(3)N1(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 LAN Base 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
```

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* | **ospf** *id* | **rip** *id* | **static**}} [**vrf** *vrf-name*]

Syntax Description

instance-tag	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.
area	Clears policy statistics for an area.
area-id	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 *autonomous-system*	Specifies the autonomous system number for the Border Gateway Protocol. Specify the autonomous system number as x.y, where the range is from 1 to 65535 for both x and y, or as a single integer, where the range is from 1 to 65535.
direct	Specifies directly connected routes.
eigrp *id*	Specifies the autonomous system number for the Enhanced Interior Gateway Protocol. Specify the *id* argument as any case-sensitive, alphanumeric string.
ospf *id*	Specifies the Open Shortest Path First version 2 instance. Specify the *id* argument as any case-sensitive, alphanumeric string.
rip *id*	Specifies the Routing Information Protocol instance. Specify the *id* argument as any case-sensitive, alphanumeric string.
static	Specifies static routes.
vrf *vrf-name*	(Optional) Specifies the name of the OSPF virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be any alphanumeric string of up to 32 characters, except "default" and "all".

Command Default   None

Command Modes

Release	Modification
5.0(3)N1(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 to view the statistics that you are clearing.

This command requires the LAN Base 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* | **all** | **default** | **management**}]

Syntax Description

vrf *vrf-name*	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is a case-sensitive, alphanumeric string of up to 32 characters.
all	(Optional) Specifies the "all" VRF instance.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default   None

Command Modes

Release	Modification
5.0(3)N1(1)	This command was introduced.

Usage Guidelines   This command requires the LAN Base Services license.

Examples   This example shows how to clear redistribution information:

```
switch# clear ip ospf redistribution
```

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

instance-tag	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.
vrf *vrf-name*	(Optional) Specifies the name of the OSPF virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be any alphanumeric string of up to 32 characters, except "default" and "all".

Command Default   None

Command Modes

Release	Modification
5.0(3)N1(1)	This command was introduced.

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

This command requires the LAN Base Services license.

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

```
switch# clear ip ospf statistics
```

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

Command Default None

Command Modes

Release	**Modification**
5.0(3)N1(1)	This command was introduced.

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 LAN Base 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 traffic

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

clear ip traffic

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes

Release	Modification
5.0(3)N1(1)	This command was introduced.

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 traffic**

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