



## C Commands

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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		
<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.	
<b>loopback</b> <i>number</i>	Clears all neighbors on a loopback interface.	
<b>port-channel</b> <i>number</i>	Clears all neighbors on a port-channel interface.	
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.	

**Command Default** None

**Command Modes** Any command mode

Command History	Release	Modification
	5.2(1)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 Nexus 5500 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
<b>show ip ospf neighbor</b>	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		
<i>instance-tag</i>	(Optional) Instance tag. Specify as an alphanumeric string of up to 20 characters.	
<b>area</b>	Clears policy statistics for an area.	
<i>area-id</i>	Area ID as an integer or IP address.	
<b>filter-list</b>	Specifies the policy statistics for filtered prefixes between OSPF areas.	
<b>in</b>	Filters prefixes sent into this OSPF area.	
<b>out</b>	Filters prefixes sent from this OSPF area.	
<b>redistribution</b>	Clears OSPF route redistribution statistics.	
<b>bgp</b> <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.	
<b>direct</b>	Specifies directly connected routes.	
<b>eigrp</b> <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.	
<b>ospf</b> <i>id</i>	Specifies the Open Shortest Path First version 2 instance. Specify the <i>id</i> argument as any case-sensitive, alphanumeric string.	
<b>rip</b> <i>id</i>	Specifies the Routing Information Protocol instance. Specify the <i>id</i> argument as any case-sensitive, alphanumeric string.	
<b>static</b>	Specifies static routes.	
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.	

**Command Default** None

**Command Modes** Any command mode

Command History	Release	Modification
	5.2(1)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 Nexus 5500 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 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
<b>show ip ospf policy statistics</b>	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

<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is a case-sensitive, alphanumeric string of up to 32 characters.
<b>all</b>	(Optional) Specifies the “all” VRF instance.
<b>default</b>	(Optional) Specifies the default VRF.
<b>management</b>	(Optional) Specifies the management VRF.

## Command Default

None

## Command Modes

Any command mode

## Command History

Release	Modification
5.2(1)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
<b>feature ospf</b>	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*]

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

<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	5.2(1)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	<p>Use the <b>clear ip ospf statistics</b> command to clear the event statistics from one or more OSPF instances. If you do not specify the <i>instance-tag</i> argument, Cisco Nexus 5500 clears statistics from all OSPF instances. Use the <b>show ip ospf statistics</b> command to view the statistics that you are clearing.</p> <p>This command requires the LAN Base Services license.</p>
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<b>Examples</b>	<p>This example shows how to clear all OSPF event statistics:</p> <pre>switch# clear ip ospf statistics</pre>
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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show ip ospf statistics</b>	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.
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the name of the OSPF virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be any alphanumeric string of up to 32 characters, except “default” and “all”.

## Command Default

None

## Command Modes

Any command mode

## Command History

Release	Modification
5.2(1)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 Nexus 5500 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
<b>show ip ospf traffic statistics</b>	Displays OSPF traffic statistics.

# clear ip traffic

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

**clear ip traffic**

<b>Syntax Description</b>	This command has no arguments or keywords.
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<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	5.2(1)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to clear the IP traffic information:</p> <pre>switch(config)# <b>clear ip traffic</b></pre>
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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show ip traffic</b>	Displays IP traffic information.

■ clear ip traffic