



IPv6 Routing: OSPFv3

Open Shortest Path First version 3 (OSPFv3) is an IPv4 and IPv6 link-state routing protocol that supports IPv6 and IPv4 unicast address families (AFs).

- [Finding Feature Information, page 1](#)
- [Prerequisites for IPv6 Routing: OSPFv3, page 1](#)
- [Restrictions for IPv6 Routing: OSPFv3, page 2](#)
- [Information About IPv6 Routing: OSPFv3, page 2](#)
- [How to Configure Load Balancing in OSPFv3, page 5](#)
- [Configuration Examples for Load Balancing in OSPFv3, page 11](#)
- [Additional References, page 12](#)
- [Feature Information for IPv6 Routing: OSPFv3, page 13](#)

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Prerequisites for IPv6 Routing: OSPFv3

- Complete the OSPFv3 network strategy and planning for your IPv6 network. For example, you must decide whether multiple areas are required.
- Enable IPv6 unicast routing.
- Enable IPv6 on the interface.

Restrictions for IPv6 Routing: OSPFv3

When running a dual-stack IP network with OSPF version 2 for IPv4 and OSPFv3, be careful when changing the defaults for commands used to enable OSPFv3. Changing these defaults may affect your OSPFv3 network, possibly adversely.

Information About IPv6 Routing: OSPFv3

How OSPFv3 Works

OSPFv3 is a routing protocol for IPv4 and IPv6. It is a link-state protocol, as opposed to a distance-vector protocol. Think of a link as being an interface on a networking device. A link-state protocol makes its routing decisions based on the states of the links that connect source and destination machines. The state of a link is a description of that interface and its relationship to its neighboring networking devices. The interface information includes the IPv6 prefix of the interface, the network mask, the type of network it is connected to, the devices connected to that network, and so on. This information is propagated in various type of link-state advertisements (LSAs).

A device's collection of LSA data is stored in a link-state database. The contents of the database, when subjected to the Dijkstra algorithm, result in the creation of the OSPF routing table. The difference between the database and the routing table is that the database contains a complete collection of raw data; the routing table contains a list of shortest paths to known destinations via specific device interface ports.

OSPFv3, which is described in RFC 5340, supports IPv6 and IPv4 unicast AFs.

Comparison of OSPFv3 and OSPF Version 2

Much of OSPF version 3 is the same as in OSPF version 2. OSPFv3, which is described in RFC 5340, expands on OSPF version 2 to provide support for IPv6 routing prefixes and the larger size of IPv6 addresses.

In OSPFv3, a routing process does not need to be explicitly created. Enabling OSPFv3 on an interface will cause a routing process, and its associated configuration, to be created.

In OSPFv3, each interface must be enabled using commands in interface configuration mode. This feature is different from OSPF version 2, in which interfaces are indirectly enabled using the device configuration mode.

When using a nonbroadcast multiaccess (NBMA) interface in OSPFv3, you must manually configure the device with the list of neighbors. Neighboring devices are identified by their device ID.

In IPv6, you can configure many address prefixes on an interface. In OSPFv3, all address prefixes on an interface are included by default. You cannot select some address prefixes to be imported into OSPFv3; either all address prefixes on an interface are imported, or no address prefixes on an interface are imported.

Unlike OSPF version 2, multiple instances of OSPFv3 can be run on a link.

OSPF automatically prefers a loopback interface over any other kind, and it chooses the highest IP address among all loopback interfaces. If no loopback interfaces are present, the highest IP address in the device is chosen. You cannot tell OSPF to use any particular interface.

LSA Types for OSPFv3

The following list describes LSA types, each of which has a different purpose:

- Device LSAs (Type 1)—Describes the link state and costs of a device's links to the area. These LSAs are flooded within an area only. The LSA indicates if the device is an Area Border Router (ABR) or Autonomous System Boundary Router (ASBR), and if it is one end of a virtual link. Type 1 LSAs are also used to advertise stub networks. In OSPFv3, these LSAs have no address information and are network-protocol-independent. In OSPFv3, device interface information may be spread across multiple device LSAs. Receivers must concatenate all device LSAs originated by a given device when running the SPF calculation.
- Network LSAs (Type 2)—Describes the link-state and cost information for all devices attached to the network. This LSA is an aggregation of all the link-state and cost information in the network. Only a designated device tracks this information and can generate a network LSA. In OSPFv3, network LSAs have no address information and are network-protocol-independent.
- Interarea-prefix LSAs for ABRs (Type 3)—Advertises internal networks to devices in other areas (interarea routes). Type 3 LSAs may represent a single network or a set of networks summarized into one advertisement. Only ABRs generate summary LSAs. In OSPFv3, addresses for these LSAs are expressed as *prefix, prefix length* instead of *address, mask*. The default route is expressed as a prefix with length 0.
- Interarea-device LSAs for ASBRs (Type 4)—Advertises the location of an ASBR. Devices that are trying to reach an external network use these advertisements to determine the best path to the next hop. Type 4 LSAs are generated by ABRs on behalf of ASBRs.
- Autonomous system external LSAs (Type 5)—Redistributes routes from another autonomous system, usually from a different routing protocol into OSPFv3. In OSPFv3, addresses for these LSAs are expressed as *prefix, prefix length* instead of *address, mask*. The default route is expressed as a prefix with length 0.
- Link LSAs (Type 8)—Have local-link flooding scope and are never flooded beyond the link with which they are associated. Link LSAs provide the link-local address of the device to all other devices attached to the link, inform other devices attached to the link of a list of prefixes to associate with the link, and allow the device to assert a collection of Options bits to associate with the network LSA that will be originated for the link.
- Intra-Area-Prefix LSAs (Type 9)—A device can originate multiple intra-area-prefix LSAs for each device or transit network, each with a unique link-state ID. The link-state ID for each intra-area-prefix LSA describes its association to either the device LSA or the network LSA and contains prefixes for stub and transit networks.

An address prefix occurs in almost all newly defined LSAs. The prefix is represented by three fields: PrefixLength, PrefixOptions, and Address Prefix. In OSPFv3, addresses for these LSAs are expressed as *prefix, prefix length* instead of *address, mask*. The default route is expressed as a prefix with length 0. Type 3 and Type 9 LSAs carry all prefix (subnet) information that, in OSPFv2, is included in device LSAs and network LSAs. The Options field in certain LSAs (device LSAs, network LSAs, interarea-device LSAs, and link LSAs) has been expanded to 24 bits to provide support for OSPFv3.

In OSPFv3, the sole function of the link-state ID in interarea-prefix LSAs, interarea-device LSAs, and autonomous-system external LSAs is to identify individual pieces of the link-state database. All addresses or device IDs that are expressed by the link-state ID in OSPF version 2 are carried in the body of the LSA in OSPFv3.

The link-state ID in network LSAs and link LSAs is always the interface ID of the originating device on the link being described. For this reason, network LSAs and link LSAs are now the only LSAs whose size cannot be limited. A network LSA must list all devices connected to the link, and a link LSA must list all of the address prefixes of a device on the link.

Load Balancing in OSPFv3

When a device learns multiple routes to a specific network via multiple routing processes (or routing protocols), it installs the route with the lowest administrative distance in the routing table. Sometimes the device must select a route from among many learned via the same routing process with the same administrative distance. In this case, the device chooses the path with the lowest cost (or metric) to the destination. Each routing process calculates its cost differently and the costs may need to be manipulated in order to achieve load balancing.

OSPFv3 performs load balancing automatically in the following way. If OSPFv3 finds that it can reach a destination through more than one interface and each path has the same cost, it installs each path in the routing table. The only restriction on the number of paths to the same destination is controlled by the **maximum-paths** command. The default maximum paths is 16, and the range is from 1 to 64.

Addresses Imported into OSPFv3

When importing the set of addresses specified on an interface on which OSPFv3 is running into OSPFv3, you cannot select specific addresses to be imported. Either all addresses are imported, or no addresses are imported.

OSPFv3 Customization

You can customize OSPFv3 for your network, but you likely will not need to do so. The defaults for OSPFv3 are set to meet the requirements of most customers and features. If you must change the defaults, refer to the IPv6 command reference to find the appropriate syntax.

**Caution**

Be careful when changing the defaults. Changing defaults will affect your OSPFv3 network, possibly adversely.

Force SPF in OSPFv3

When the **process** keyword is used with the **clear ipv6 ospf** command, the OSPFv3 database is cleared and repopulated, and then the SPF algorithm is performed. When the **force-spf** keyword is used with the **clear ipv6 ospf** command, the OSPFv3 database is not cleared before the SPF algorithm is performed.

How to Configure Load Balancing in OSPFv3

Configuring the OSPFv3 Device Process

Once you have completed step 3 and entered OSPFv3 router configuration mode, you can perform any of the subsequent steps in this task as needed to configure OSPFv3 Device configuration.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **router ospfv3** [*process-id*]
4. **area** *area-ID* [**default-cost** | **nssa** | **stub**]
5. **auto-cost reference-bandwidth** *Mbps*
6. **default** {**area** *area-ID* [**range** *ipv6-prefix* | **virtual-link** *router-id*]} [**default-information originate** [**always** | **metric** | **metric-type** | **route-map**] | **distance** | **distribute-list** *prefix-list prefix-list-name* {**in** | **out**} [*interface*] | **maximum-paths** *paths* | **redistribute** *protocol* | **summary-prefix** *ipv6-prefix*]
7. **ignore-lsa mospf**
8. **interface-id snmp-if-index**
9. **log-adjacency-changes** [**detail**]
10. **passive-interface** [**default** | *interface-type interface-number*]
11. **queue-depth** {**hello** | **update**} {*queue-size* | **unlimited**}
12. **router-id** *router-id*

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	router ospfv3 [<i>process-id</i>] Example: Device(config)# router ospfv3 1	Enters router configuration mode for the IPv4 or IPv6 address family.

	Command or Action	Purpose
Step 4	area <i>area-ID</i> [default-cost nssa stub] Example: Device(config-router)# area 1	Configures the OSPFv3 area.
Step 5	auto-cost reference-bandwidth <i>Mbps</i> Example: Device(config-router)# auto-cost reference-bandwidth 1000	Controls the reference value OSPFv3 uses when calculating metrics for interfaces in an IPv4 OSPFv3 process.
Step 6	default { area <i>area-ID</i> [range <i>ipv6-prefix</i> virtual-link <i>router-id</i>]} [default-information originate [always metric metric-type route-map] distance distribute-list <i>prefix-list prefix-list-name</i> { in out } [<i>interface</i>] maximum-paths <i>paths</i> redistribute <i>protocol</i> summary-prefix <i>ipv6-prefix</i>] Example: Device(config-router)# default area 1	Returns an OSPFv3 parameter to its default value.
Step 7	ignore lsa mospf Example: Device(config-router)# ignore lsa mospf	Suppresses the sending of syslog messages when the device receives LSA Type 6 multicast OSPFv3 packets, which are unsupported.
Step 8	interface-id snmp-if-index Example: Device(config-router)# interface-id snmp-if-index	Configures OSPFv3 interfaces with Simple Network Management Protocol (SNMP) MIB-II interface Index (ifIndex) identification numbers in IPv4 and IPv6.
Step 9	log-adjacency-changes [detail] Example: Device(config-router)# log-adjacency-changes	Configures the device to send a syslog message when an OSPFv3 neighbor goes up or down.
Step 10	passive-interface [default <i>interface-type interface-number</i>] Example: Device(config-router)# passive-interface default	Suppresses sending routing updates on an interface when an IPv4 OSPFv3 process is used.

	Command or Action	Purpose
Step 11	queue-depth {hello update} {queue-size unlimited} Example: Device(config-router)# queue-depth update 1500	Configures the number of incoming packets that the IPv4 OSPFv3 process can keep in its queue.
Step 12	router-id router-id Example: Device(config-router)# router-id 10.1.1.1	Enter this command to use a fixed router ID.

Forcing an SPF Calculation

SUMMARY STEPS

1. **enable**
2. **clear ospfv3** [process-id] **force-spf**
3. **clear ospfv3** [process-id] **process**
4. **clear ospfv3** [process-id] **redistribution**
5. **clear ipv6 ospf** [process-id] {process | force-spf | redistribution}

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	clear ospfv3 [process-id] force-spf Example: Device# clear ospfv3 1 force-spf	Runs SPF calculations for an OSPFv3 process. <ul style="list-style-type: none"> • If the clear ospfv3 force-spf command is configured, it overwrites the clear ipv6 ospf configuration. • Once the clear ospfv3 force-spf command has been used, the clear ipv6 ospf command cannot be used.
Step 3	clear ospfv3 [process-id] process	Resets an OSPFv3 process.

	Command or Action	Purpose
	<p>Example:</p> <pre>Device# clear ospfv3 2 process</pre>	<ul style="list-style-type: none"> • If the clear ospfv3 force-spf command is configured, it overwrites the clear ipv6 ospf configuration. • Once the clear ospfv3 force-spf command has been used, the clear ipv6 ospf command cannot be used.
Step 4	<p>clear ospfv3 [<i>process-id</i>] redistribution</p> <p>Example:</p> <pre>Device# clear ospfv3 redistribution</pre>	<p>Clears OSPFv3 route redistribution.</p> <ul style="list-style-type: none"> • If the clear ospfv3 force-spf command is configured, it overwrites the clear ipv6 ospf configuration. • Once the clear ospfv3 force-spf command has been used, the clear ipv6 ospf command cannot be used.
Step 5	<p>clear ipv6 ospf [<i>process-id</i>] {process force-spf redistribution}</p> <p>Example:</p> <pre>Device# clear ipv6 ospf force-spf</pre>	<p>Clears the OSPFv3 state based on the OSPFv3 routing process ID, and forces the start of the SPF algorithm.</p> <ul style="list-style-type: none"> • If the clear ospfv3 force-spf command is configured, it overwrites the clear ipv6 ospf configuration. • Once the clear ospfv3 force-spf command has been used, the clear ipv6 ospf command cannot be used.

Verifying OSPFv3 Configuration and Operation

This task is optional, and the commands can be entered in any order, as needed.

SUMMARY STEPS

1. **enable**
2. **show ospfv3** [*process-id*] [*address-family*] **border-routers**
3. **show ospfv3** [*process-id* [*area-id*]] [*address-family*] **database** [**database-summary** | **internal** | **external** [*ipv6-prefix*] [*link-state-id*] | **grace** | **inter-area prefix** [*ipv6-prefix* | *link-state-id*] | **inter-area router** [*destination-router-id* | *link-state-id*] | **link** [**interface** *interface-name* | *link-state-id*] | **network** [*link-state-id*] | **nssa-external** [*ipv6-prefix*] [*link-state-id*] | **prefix** [**ref-lsa** {**router** | **network**} | *link-state-id*] | **promiscuous** | **router** [*link-state-id*] | **unknown** [{**area** | **as** | **link**} [*link-state-id*]] [**adv-router** *router-id*] [**self-originate**]
4. **show ospfv3** [*process-id*] [*address-family*] **events** [**generic** | **interface** | **lsa** | **neighbor** | **reverse** | **rib** | **spf**]
5. **show ospfv3** [*process-id*] [*area-id*] [*address-family*] **flood-list** *interface-type interface-number*
6. **show ospfv3** [*process-id*] [*address-family*] **graceful-restart**
7. **show ospfv3** [*process-id*] [*area-id*] [*address-family*] **interface** [*type number*] [**brief**]
8. **show ospfv3** [*process-id*] [*area-id*] [*address-family*] **neighbor** [*interface-type interface-number*] [*neighbor-id*] [**detail**]
9. **show ospfv3** [*process-id*] [*area-id*] [*address-family*] **request-list**[*neighbor*] [*interface*] [*interface-neighbor*]
10. **show ospfv3** [*process-id*] [*area-id*] [*address-family*] **retransmission-list** [*neighbor*] [*interface*] [*interface-neighbor*]
11. **show ospfv3** [*process-id*] [*address-family*] **statistic** [**detail**]
12. **show ospfv3** [*process-id*] [*address-family*] **summary-prefix**
13. **show ospfv3** [*process-id*] [*address-family*] **timers rate-limit**
14. **show ospfv3** [*process-id*] [*address-family*] **traffic**[*interface-type interface-number*]
15. **show ospfv3** [*process-id*] [*address-family*] **virtual-links**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	show ospfv3 [<i>process-id</i>] [<i>address-family</i>] border-routers Example: Device# show ospfv3 border-routers	Displays the internal OSPFv3 routing table entries to an ABR and ASBR.
Step 3	show ospfv3 [<i>process-id</i> [<i>area-id</i>]] [<i>address-family</i>] database [database-summary internal external [<i>ipv6-prefix</i>] [<i>link-state-id</i>] grace inter-area prefix [<i>ipv6-prefix</i> <i>link-state-id</i>] inter-area router [<i>destination-router-id</i> <i>link-state-id</i>] link [interface	Displays lists of information related to the OSPFv3 database for a specific device.

	Command or Action	Purpose
	<p><i>interface-name</i> <i>link-state-id</i>] network [<i>link-state-id</i>] nssa-external [<i>ipv6-prefix</i>] [<i>link-state-id</i>] prefix [ref-lsa {router network} <i>link-state-id</i>] promiscuous router [<i>link-state-id</i>] unknown [{area as link} [<i>link-state-id</i>]] [adv-router <i>router-id</i>] [self-originate]</p> <p>Example:</p> <pre>Device# show ospfv3 database</pre>	
Step 4	<p>show ospfv3 [<i>process-id</i>] [<i>address-family</i>] events [generic interface lsa neighbor reverse rib spf]</p> <p>Example:</p> <pre>Device# show ospfv3 events</pre>	Displays detailed information about OSPFv3 events.
Step 5	<p>show ospfv3 [<i>process-id</i>] [<i>area-id</i>] [<i>address-family</i>] flood-list <i>interface-type interface-number</i></p> <p>Example:</p> <pre>Device# show ospfv3 flood-list</pre>	Displays a list of OSPFv3 LSAs waiting to be flooded over an interface.
Step 6	<p>show ospfv3 [<i>process-id</i>] [<i>address-family</i>] graceful-restart</p> <p>Example:</p> <pre>Device# show ospfv3 graceful-restart</pre>	Displays OSPFv3 graceful restart information.
Step 7	<p>show ospfv3 [<i>process-id</i>] [<i>area-id</i>] [<i>address-family</i>] interface [<i>type number</i>] [brief]</p> <p>Example:</p> <pre>Device# show ospfv3 interface</pre>	Displays OSPFv3-related interface information.
Step 8	<p>show ospfv3 [<i>process-id</i>] [<i>area-id</i>] [<i>address-family</i>] neighbor [<i>interface-type interface-number</i>] [<i>neighbor-id</i>] [detail]</p> <p>Example:</p> <pre>Device# show ospfv3 neighbor</pre>	Displays OSPFv3 neighbor information on a per-interface basis.
Step 9	<p>show ospfv3 [<i>process-id</i>] [<i>area-id</i>] [<i>address-family</i>] request-list[neighbor] [<i>interface</i>] [<i>interface-neighbor</i>]</p> <p>Example:</p> <pre>Device# show ospfv3 request-list</pre>	Displays a list of all LSAs requested by a device.

	Command or Action	Purpose
Step 10	show ospfv3 [<i>process-id</i>] [<i>area-id</i>] [<i>address-family</i>] retransmission-list [<i>neighbor</i>] [<i>interface</i>] [<i>interface-neighbor</i>] Example: Device# show ospfv3 retransmission-list	Displays a list of all LSAs waiting to be re-sent.
Step 11	show ospfv3 [<i>process-id</i>] [<i>address-family</i>] statistic [<i>detail</i>] Example: Device# show ospfv3 statistic	Displays OSPFv3 SPF calculation statistics.
Step 12	show ospfv3 [<i>process-id</i>] [<i>address-family</i>] summary-prefix Example: Device# show ospfv3 summary-prefix	Displays a list of all summary address redistribution information configured under an OSPFv3 process.
Step 13	show ospfv3 [<i>process-id</i>] [<i>address-family</i>] timers rate-limit Example: Device# show ospfv3 timers rate-limit	Displays all of the LSAs in the rate limit queue.
Step 14	show ospfv3 [<i>process-id</i>] [<i>address-family</i>] traffic [<i>interface-type</i> <i>interface-number</i>] Example: Device# show ospfv3 traffic	Displays OSPFv3 traffic statistics.
Step 15	show ospfv3 [<i>process-id</i>] [<i>address-family</i>] virtual-links Example: Device# show ospfv3 virtual-links	Displays parameters and the current state of OSPFv3 virtual links.

Configuration Examples for Load Balancing in OSPFv3

Example: Configuring the OSPFv3 Device Process

```

Device# show ospfv3 database
      OSPFv3 Device with ID (172.16.4.4) (Process ID 1)
      Device Link States (Area 0)
ADV Device      Age      Seq#      Fragment ID  Link count  Bits
172.16.4.4     239     0x80000003  0           1           B
  
```

```

172.16.6.6      239      0x80000003  0          1          B
Inter Area Prefix Link States (Area 0)
ADV Device    Age      Seq#      Prefix
172.16.4.4    249      0x80000001 FEC0:3344::/32
172.16.4.4    219      0x80000001 FEC0:3366::/32
172.16.6.6    247      0x80000001 FEC0:3366::/32
172.16.6.6    193      0x80000001 FEC0:3344::/32
172.16.6.6    82       0x80000001 FEC0::/32
Inter Area Device Link States (Area 0)
ADV Device    Age      Seq#      Link ID      Dest DevID
172.16.4.4    219      0x80000001 50529027    172.16.3.3
172.16.6.6    193      0x80000001 50529027    172.16.3.3

Link (Type-8) Link States (Area 0)
ADV Device    Age      Seq#      Link ID      Interface
172.16.4.4    242      0x80000002 14           PO4/0
172.16.6.6    252      0x80000002 14           PO4/0
Intra Area Prefix Link States (Area 0)
ADV Device    Age      Seq#      Link ID      Ref-lstype  Ref-LSID
172.16.4.4    242      0x80000002 0            0x2001      0
172.16.6.6    252      0x80000002 0            0x2001      0

```

```
Device# show ospfv3 neighbor
```

```

OSPFv3 Device with ID (10.1.1.1) (Process ID 42)
Neighbor ID    Pri  State      Dead Time  Interface ID  Interface
10.4.4.4      1    FULL/ -    00:00:39  12           vml
OSPFv3 Device with ID (10.2.1.1) (Process ID 100)
Neighbor ID    Pri  State      Dead Time  Interface ID  Interface
10.5.4.4      1    FULL/ -    00:00:35  12           vml

```

Example: Forcing SPF Configuration

The following example shows how to trigger SPF to redo the SPF and repopulate the routing tables:

```
clear ipv6 ospf force-spf
```

Additional References

Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	<i>IPv6 Configuration Guide</i>
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
IPv6 commands	Cisco IOS IPv6 Command Reference
Cisco IOS IPv6 features	Cisco IOS IPv6 Feature Mapping
IPv6 Routing: OSPFv3	" <i>Configuring OSPF</i> " module

Standards and RFCs

Standard/RFC	Title
RFCs for IPv6	IPv6 RFCs

MIBs

MIB	MIBs Link
	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for IPv6 Routing: OSPFv3

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1: Feature Information for IPv6 Routing: OSPFv3

Feature Name	Releases	Feature Information
IPv6 Routing: OSPFv3	12.2(33)SRA Cisco IOS XE Release 2.1	OSPF version 3 for IPv6 expands on OSPF version 2 to provide support for IPv6 routing prefixes and the larger size of IPv6 addresses.

