



Implementing RIP for IPv6

This module describes how to configure Routing Information Protocol for IPv6. RIP is a distance-vector routing protocol that uses hop count as a routing metric. RIP is an Interior Gateway Protocol (IGP) most commonly used in smaller networks.

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Prerequisites for Implementing RIP for IPv6

- This module assumes that you are familiar with IPv6 addressing and basic configuration. Refer to the *Implementing Basic Connectivity for IPv6* module for more information.
- This module assumes that you are familiar with IPv4. Refer to the publications referenced in the “[Related Documents](#)” section for IPv4 configuration and command reference information, as needed.

Table 10 identifies the earliest release for each early-deployment train in which the feature became available.

Table 10 Minimum Required Cisco IOS Release

Feature	Minimum Required Cisco IOS Release by Release Train
RIP enhancements for IPv6	12.2(2)T, 12.0(21)ST, 12.0(22)S, 12.2(14)S, 12.3, 12.3(2)T, 12.4, 12.4(2)T, 12.2(27)SBC
Route redistribution	12.2(2)T, 12.0(21)ST, 12.0(22)S, 12.2(14)S, 12.3, 12.3(2)T, 12.4, 12.4(2)T, 12.2(27)SBC

Information About Implementing RIP for IPv6

To configure IPv6 RIP, you need to understand the following concept:

- [RIP for IPv6, page 208](#)

RIP for IPv6

IPv6 RIP functions the same and offers the same benefits as RIP in IPv4. RIP enhancements for IPv6, detailed in RFC 2080, include support for IPv6 addresses and prefixes, and the use of the all-RIP-routers multicast group address FF02::9 as the destination address for RIP update messages. New commands specific to RIP in IPv6 were also added to the Cisco IOS command-line interface (CLI).

In the Cisco IOS software implementation of IPv6 RIP each IPv6 RIP process maintains a local routing table, referred to as a Routing Information Database (RIB). The IPv6 RIP RIB contains a set of best-cost IPv6 RIP routes learned from all its neighboring networking devices. If IPv6 RIP learns the same route from two different neighbors, but with different costs, it will store only the lowest cost route in the local RIB. The RIB also stores any expired routes that the RIP process is advertising to its neighbors running RIP. IPv6 RIP will try to insert every non-expired route from its local RIB into the master IPv6 RIB. If the same route has been learned from a different routing protocol with a better administrative distance than IPv6 RIP, the RIP route will not be added to the IPv6 RIB but the RIP route will still exist in the IPv6 RIP RIB.

How to Implement RIP for IPv6

When configuring supported routing protocols in IPv6, you must create the routing process, enable the routing process on interfaces, and customize the routing protocol for your particular network.



Note

The following sections describe the configuration tasks for creating an IPv6 RIP routing process and enabling the routing process on interfaces. The following sections do not provide in-depth information on customizing RIP because the protocol functions the same in IPv6 as it does in IPv4. Refer to the publications referenced in the “[Related Documents](#)” section for further IPv6 and IPv4 configuration and command reference information.

The tasks in the following sections explain how to configure IPv6 RIP. Each task in the list is identified as either required or optional:

This section contains the following procedures:

- [Enabling IPv6 RIP, page 209](#) (required)
- [Customizing IPv6 RIP, page 210](#) (optional)
- [Redistributing Routes into an IPv6 RIP Routing Process, page 211](#) (optional)
- [Configuring Tags for RIP Routes, page 212](#) (optional)
- [Filtering IPv6 RIP Routing Updates, page 213](#) (optional)
- [Verifying IPv6 RIP Configuration and Operation, page 215](#) (optional)

Enabling IPv6 RIP

This task explains how to create an IPv6 RIP process and enable the specified IPv6 RIP process on an interface.

Prerequisites

Before configuring the router to run IPv6 RIP, globally enable IPv6 using the **ipv6 unicast-routing** global configuration command, and enable IPv6 on any interfaces on which IPv6 RIP is to be enabled. For details on basic IPv6 connectivity tasks, refer to the *Implementing Basic Connectivity for IPv6* module.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **interface** *type number*
4. **ipv6 rip** *name* **enable**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 3	<code>interface type number</code> Example: Router(config)# interface Ethernet 0/0	Specifies the interface type and number, and enters interface configuration mode.
Step 4	<code>ipv6 rip name enable</code> Example: Router(config-if)# ipv6 rip process1 enable	Enables the specified IPv6 RIP routing process on an interface.

If you want to set or change a global value, follow steps 1 and 2, and then use the optional **ipv6 router rip name** command in global configuration mode.

Customizing IPv6 RIP

This optional task explains how to configure the maximum numbers of equal-cost paths that IPv6 RIP will support, adjust the IPv6 RIP timers, and originate a default IPv6 route.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **ipv6 router rip name**
4. **maximum-paths number-paths**
5. **exit**
6. **interface type number**
7. **ipv6 rip name default-information {only | originate} [metric metric-value]**

DETAILED STEPS

	Command or Action	Purpose
Step 1	<code>enable</code> Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	<code>configure terminal</code> Example: Router# configure terminal	Enters global configuration mode.
Step 3	<code>ipv6 router rip name</code> Example: Router(config)# ipv6 router rip cisco	Configures an IPv6 RIP routing process and enters router configuration mode for the IPv6 RIP routing process. <ul style="list-style-type: none"> • Use the <i>name</i> argument to identify a specific IPv6 RIP routing process.

	Command or Action	Purpose
Step 4	<pre>maximum-paths number-paths</pre> <p>Example: Router(config-router)# maximum-paths 1</p>	(Optional) Defines the maximum number of equal-cost routes that IPv6 RIP can support. <ul style="list-style-type: none"> The <i>number-paths</i> argument is an integer from 1 to 64. The default for RIP is four paths.
Step 5	<pre>exit</pre> <p>Example: Router(config-if)# exit</p>	Exits interface configuration mode and enters global configuration mode.
Step 6	<pre>interface type number</pre> <p>Example: Router(config)# interface Ethernet 0/0</p>	Specifies the interface type and number, and enters interface configuration mode.
Step 7	<pre>ipv6 rip name default-information {only originate} [metric metric-value]</pre> <p>Example: Router(config-if)# ipv6 rip cisco default-information originate</p>	(Optional) Originates the IPv6 default route (::/0) into the specified RIP routing process updates sent out of the specified interface. <p>Note To avoid routing loops after the IPv6 default route (::/0) is originated out of any interface, the routing process ignores all default routes received on any interface.</p> <ul style="list-style-type: none"> Specifying the only keyword originates the default route (::/0) but suppresses all other routes in the updates sent on this interface. Specifying the originate keyword originates the default route (::/0) in addition to all other routes in the updates sent on this interface.

Redistributing Routes into an IPv6 RIP Routing Process

RIP supports the use of a route map to select routes for redistribution. Routes may be specified by prefix, using a route-map prefix list, or by tag, using the route-map “match tag” function.

The maximum metric that RIP can advertise is 16, and a metric of 16 denotes a route that is unreachable. Therefore, if you are redistributing routes with metrics greater than or equal to 16, then by default RIP will advertise them as unreachable. These routes will not be used by neighboring routers. The user must configure a redistribution metric of less than 15 for these routes.



Note

You must to advertise a route with metric of 15 or less. A RIP router always adds an interface cost—the default is 1—onto the metric of a received route. If you advertise a route with metric 15, your neighbor will add 1 to it, making a metric of 16. Because a metric of 16 is unreachable, your neighbor will not install the route in the routing table.

If no metric is specified, then the current metric of the route is used. To find the current metric of the route, enter the **show ipv6 route** command.

This task explains how to redistribute tagged routes into an IPv6 RIP routing process.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **interface** *type number*
4. **ipv6 rip** *word enable*
5. **redistribute** *protocol [process-id] {level-1 | level-1-2 | level-2} [metric metric-value] [metric-type {internal | external}] [route-map map-name]*

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	interface <i>type number</i> Example: Router(config)# interface Ethernet 0/0	Specifies the interface type and number, and enters interface configuration mode.
Step 4	ipv6 rip <i>word enable</i> Example: Router(config-if)# ipv6 router one enable	Enables an IPv6 Routing Information Protocol (RIP) routing process on an interface.
Step 5	redistribute <i>protocol [process-id] {level-1 level-1-2 level-2} [metric metric-value] [metric-type {internal external}] [route-map map-name]</i> Example: Router(config-router)# redistribute bgp 65001 route-map bgp-to-rip	Redistributes the specified routes into the IPv6 RIP routing process. <ul style="list-style-type: none"> • The <i>protocol</i> argument can be one of the following keywords: bgp, connected, isis, rip, or static. • The rip keyword and <i>process-id</i> argument specify an IPv6 RIP routing process. <p>Note The connected keyword refers to routes that are established automatically by assigning IPv6 addresses to an interface.</p>

Configuring Tags for RIP Routes

When performing route redistribution, you can associate a numeric tag with a route. The tag is advertised with the route by RIP and will be installed along with the route in neighboring router's routing table.

If you redistribute a tagged route (for example, a route in the IPv6 routing table that already has a tag) into RIP, then RIP will automatically advertise the tag with the route. If you use a redistribution route map to specify a tag, then RIP will use the route map tag in preference to the routing table tag.

The following task explains how to set route tags using a route map.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **route-map** *map-tag* [**permit** | **deny**] [*sequence-number*]
4. **match ipv6 address** {**prefix-list** *prefix-list-name* | *access-list-name*}
5. **set tag** *value*

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">• Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	route-map <i>map-tag</i> [permit deny] [<i>sequence-number</i>] Example: Router(config)# route-map bgp-to-rip permit 10	Defines a route map, and enters route-map configuration mode. <ul style="list-style-type: none">• Follow this step with a match command.
Step 4	match ipv6 address { prefix-list <i>prefix-list-name</i> <i>access-list-name</i> }	Specifies a list of IPv6 prefixes to be matched.
Step 5	set tag <i>value</i> Example: Router(config-route-map)# set tag 4	Sets the tag value to associate with the redistributed routes.

Filtering IPv6 RIP Routing Updates

Route filtering using distribute lists provides control over the routes RIP receives and advertises. This control may be exercised globally or per interface.

This task explains how to apply a prefix list to IPv6 RIP routing updates that are received or sent on an interface.

IPv6 Distribute Lists

Filtering is controlled by distribute lists. Input distribute lists control route reception, and input filtering is applied to advertisements received from neighbors. Only those routes that pass input filtering will be inserted in the RIP local routing table and become candidates for insertion into the IPv6 routing table.

Output distribute lists control route advertisement; Output filtering is applied to route advertisements sent to neighbors. Only those routes passing output filtering will be advertised.

Global distribute lists (which are distribute lists that do not apply to a specified interface) apply to all interfaces. If a distribute list specifies an interface, then that distribute list applies only to that interface.

An interface distribute list always takes precedence. For example, for a route received at an interface, with the interface filter set to deny, and the global filter set to permit, the route is blocked, the interface filter is passed, the global filter is blocked, and the route is passed.

IPv6 Prefix List Operand Keywords

IPv6 prefix lists are used to specify certain prefixes or a range of prefixes that must be matched before a permit or deny statement can be applied. Two operand keywords can be used to designate a range of prefix lengths to be matched. A prefix length of less than, or equal to, a value is configured with the **le** keyword. A prefix length greater than, or equal to, a value is specified using the **ge** keyword. The **ge** and **le** keywords can be used to specify the range of the prefix length to be matched in more detail than the usual *ipv6-prefix/prefix-length* argument. For a candidate prefix to match against a prefix list entry three conditions can exist:

- The candidate prefix must match the specified prefix list and prefix length entry.
- The value of the optional **le** keyword specifies the range of allowed prefix lengths from the *prefix-length* argument up to, and including, the value of the **le** keyword.
- The value of the optional **ge** keyword specifies the range of allowed prefix lengths from the value of the **ge** keyword up to, and including, 128.



Note

Note that the first condition must match before the other conditions take effect.

An exact match is assumed when the **ge** or **le** keywords are not specified. If only one keyword operand is specified then the condition for that keyword is applied, and the other condition is not applied. The *prefix-length* value must be less than the **ge** value. The **ge** value must be less than, or equal to, the **le** value. The **le** value must be less than or equal to 128.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **ipv6 prefix list** *prefix-list-name* [**seq** *seq-number*] {**deny** *ipv6-prefix/prefix-length* | **description** *text*} [**ge** *ge-value*] [**le** *le-value*]
4. **ipv6 prefix list** *prefix-list-name* [**seq** *seq-number*] {**permit** *ipv6-prefix/prefix-length* | **description** *text*} [**ge** *ge-value*] [**le** *le-value*]
5. Repeat Steps 3 and 4 as many times as necessary to build the prefix list.

6. **ipv6 router rip** *name*
7. **distribute-list prefix-list** *prefix-list-name* {**in** | **out**} [*interface-type interface-number*]

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">• Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	ipv6 prefix list <i>prefix-list-name</i> [seq <i>seq-number</i>] { deny <i>ipv6-prefix/prefix-length</i> description <i>text</i> } [ge <i>ge-value</i>] [le <i>le-value</i>] Example: Router(config)# ipv6 prefix-list abc permit 2001:0db8::/16	Creates an entry in the IPv6 prefix list.
Step 4	ipv6 prefix list <i>prefix-list-name</i> [seq <i>seq-number</i>] { deny <i>ipv6-prefix/prefix-length</i> description <i>text</i> } [ge <i>ge-value</i>] [le <i>le-value</i>] Example: Router(config)# ipv6 prefix-list abc deny ::/0	Creates an entry in the IPv6 prefix list.
Step 5	Repeat Steps 3 and 4 as many times as necessary to build the prefix list.	—
Step 6	ipv6 router rip <i>name</i> Example: Router(config)# ipv6 router rip cisco	Configures an IPv6 RIP routing process.
Step 7	distribute-list prefix-list <i>prefix-list-name</i> { in out } [<i>interface-type interface-number</i>] Example: Router(config-rtr-rip)# distribute-list prefix-list cisco in ethernet 0/0	Applies a prefix list to IPv6 RIP routing updates that are received or sent on an interface.

Verifying IPv6 RIP Configuration and Operation

A user may want to check IPv6 RIP configuration and operation. Some of the following scenarios may occur for which a user can then enable the following **show** and **debug** commands:

- “Why isn’t a certain route appearing in my IPv6 routing table?”
- “Am I receiving routes via RIP?”

- “Is a certain route being filtered?”
- “Someone at a route site told me that I am not advertising a certain route. True?”

This task explains how to display information to verify the configuration and operation of IPv6 RIP.

SUMMARY STEPS

1. **show ipv6 rip** [*name*] [**database** | **next-hops**]
2. **show ipv6 route** [*ipv6-address* | *ipv6-prefix/prefix-length* | *protocol*]
3. **enable**
4. **debug ipv6 rip** [*interface-type interface-number*]

DETAILED STEPS

	Command or Action	Purpose
Step 1	show ipv6 rip [<i>name</i>] [database next-hops] Example: Router> show ipv6 rip cisco database	(Optional) Displays information about current IPv6 RIP processes. • In this example, IPv6 RIP process database information is displayed for the specified IPv6 RIP process.
Step 2	show ipv6 route [<i>ipv6-address</i> <i>ipv6-prefix/prefix-length</i> <i>protocol</i>] Example: Router> show ipv6 route rip	(Optional) Displays the current contents of the IPv6 routing table. • In this example, only IPv6 RIP routes are displayed.
Step 3	enable Example: Router> enable	Enables higher privilege levels, such as privileged EXEC mode. • Enter your password if prompted.
Step 4	debug ipv6 rip [<i>interface-type interface-number</i>] Example: Router# debug ipv6 rip	(Optional) Displays debugging messages for IPv6 RIP routing transactions.

Output Examples

This section provides the following output examples:

- [Sample Output for the show ipv6 rip Command, page 217](#)
- [Sample Output for the show ipv6 route Command, page 218](#)
- [Sample Output for the debug ipv6 rip Command, page 218](#)

Sample Output for the show ipv6 rip Command

In the following example, output information about all current IPv6 RIP processes is displayed using the **show ipv6 rip** user EXEC command:

```
Router> show ipv6 rip

RIP process "cisco", port 521, multicast-group FF02::9, pid 62
  Administrative distance is 120. Maximum paths is 1
  Updates every 5 seconds, expire after 15
  Holddown lasts 10 seconds, garbage collect after 30
  Split horizon is on; poison reverse is off
  Default routes are generated
  Periodic updates 223, trigger updates 1
Interfaces:
  Ethernet0/0
Redistribution:
  Redistributing protocol bgp 65001 route-map bgp-to-rip
```

In the following example, output information about a specified IPv6 RIP process database is displayed using the **show ipv6 rip** user EXEC command with the *name* argument and the **database** keyword. In the following output for the IPv6 RIP process named cisco, timer information is displayed, and route 2001:0db8::16/64 has a route tag set:

```
Router> show ipv6 rip cisco database

RIP process "cisco", local RIB
  2001:0db8::/64, metric 2
    Ethernet0/0/FE80::A8BB:CCFF:FE00:B00, expires in 13 secs
  2001:0db8::/16, metric 2 tag 4, installed
    Ethernet0/0/FE80::A8BB:CCFF:FE00:B00, expires in 13 secs
  2001:0db8:1::/16, metric 2 tag 4, installed
    Ethernet0/0/FE80::A8BB:CCFF:FE00:B00, expires in 13 secs
  2001:0db8:2::/16, metric 2 tag 4, installed
    Ethernet0/0/FE80::A8BB:CCFF:FE00:B00, expires in 13 secs
  ::/0, metric 2, installed
    Ethernet0/0/FE80::A8BB:CCFF:FE00:B00, expires in 13 secs
```

In the following example, output information for a specified IPv6 RIP process is displayed using the **show ipv6 rip** user EXEC command with the *name* argument and the **next-hops** keyword:

```
Router> show ipv6 rip cisco next-hops

RIP process "cisco", Next Hops
  FE80::A8BB:CCFF:FE00:A00/Ethernet0/0 [4 paths]
```



Note

For a description of each output display field, refer to the **show ipv6 rip** command in the *IPv6 for Cisco IOS Command Reference*.

Sample Output for the show ipv6 route Command

The current metric of the route can be found by entering the **show ipv6 route** command. In the following example, output information for all IPv6 RIP routes is displayed using the **show ipv6 route** user EXEC command with the **rip** protocol keyword:

```
Router> show ipv6 route rip

IPv6 Routing Table - 17 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
R   2001:0db8:1::/32 [120/2]
    via FE80::A8BB:CCFF:FE00:A00, Ethernet0/0
R   2001:0db8:2::/32 [120/2]
    via FE80::A8BB:CCFF:FE00:A00, Ethernet0/0
R   2001:0db8:3::/32 [120/2]
    via FE80::A8BB:CCFF:FE00:A00, Ethernet0/0
```

Sample Output for the debug ipv6 rip Command

In the following example, debugging messages for IPv6 RIP routing transactions are displayed using the **debug ipv6 rip** privileged EXEC command:



Note

By default, the system sends the output from **debug** commands and system error messages to the console. To redirect debugging output, use the **logging** command options within privileged EXEC mode. Possible destinations include the console, virtual terminals, internal buffer, and UNIX hosts running a syslog server. For complete information on **debug** commands and redirecting debugging output, refer to the *Cisco IOS Debug Command Reference*, Release 12.4.

```
Router# debug ipv6 rip

RIPng: Sending multicast update on Ethernet0/0 for cisco
      src=FE80::A8BB:CCFF:FE00:B00
      dst=FF02::9 (Ethernet0/0)
      sport=521, dport=521, length=112
      command=2, version=1, mbz=0, #rte=5
      tag=0, metric=1, prefix=2001:0db8::/64
      tag=4, metric=1, prefix=2001:0db8:1::/16
      tag=4, metric=1, prefix=2001:0db8:2::/16
      tag=4, metric=1, prefix=2001:0db8:3::/16
      tag=0, metric=1, prefix=::/0
RIPng: Next RIB walk in 10032
RIPng: response received from FE80::A8BB:CCFF:FE00:A00 on Ethernet0/0 for cisco
      src=FE80::A8BB:CCFF:FE00:A00 (Ethernet0/0)
      dst=FF02::9
      sport=521, dport=521, length=92
      command=2, version=1, mbz=0, #rte=4
      tag=0, metric=1, prefix=2001:0db8::/64
      tag=0, metric=1, prefix=2001:0db8:1::/32
      tag=0, metric=1, prefix=2001:0db8:2::/32
      tag=0, metric=1, prefix=2001:0db8:3::/32
```

Configuration Examples for IPv6 RIP

This section provides the following configuration examples:

- [IPv6 RIP Configuration: Example, page 219](#)

IPv6 RIP Configuration: Example

In the following example, the IPv6 RIP process named cisco is enabled on the router and on Ethernet interface 0/0. The IPv6 default route (::/0) is advertised in addition to all other routes in router updates sent on Ethernet interface 0/0. Additionally, BGP routes are redistributed into the RIP process named cisco according to a route map where routes that match a prefix list are also tagged. The number of parallel paths is set to one to allow the route tagging, and the IPv6 RIP timers are adjusted. A prefix list named eth0/0-in-flt filters inbound routing updates on Ethernet interface 0/0.

```
ipv6 router rip cisco
  maximum-paths 1
  redistribute bgp 65001 route-map bgp-to-rip
  distribute-list prefix-list eth0/0-in-flt in Ethernet0/0
!
interface Ethernet0/0
  ipv6 address 2001:0db8::/64 eui-64
  ipv6 rip cisco enable
  ipv6 rip cisco default-information originate
!
ipv6 prefix-list bgp-to-rip-flt seq 10 deny 2001:0db8:3::/16 le 128
ipv6 prefix-list bgp-to-rip-flt seq 20 permit 2001:0db8:1::/8 le 128
!
ipv6 prefix-list eth0/0-in-flt seq 10 deny ::/0
ipv6 prefix-list eth0/0-in-flt seq 15 permit ::/0 le 128
!
route-map bgp-to-rip permit 10
  match ipv6 address prefix-list bgp-to-rip-flt
  set tag 4
```

Where to Go Next

If you want to implement more IPv6 routing protocols, see the *Implementing IS-IS for IPv6* or *Implementing Multiprotocol BGP for IPv6* module.

Additional References

For additional information related to implementing RIP for IPv6, see the following sections:

- [Related Documents, page 220](#)
- [Standards, page 220](#)
- [MIBs, page 220](#)
- [RFCs, page 220](#)
- [Technical Assistance, page 220](#)

Related Documents

Related Topic	Document Title
RIP configuration tasks	“Configuring Routing Information Protocol” chapter in the <i>Cisco IOS IP Configuration Guide</i> , Release 12.4
RIP commands: complete command syntax, command mode, defaults, usage guidelines, and examples	<i>Cisco IOS IP Command Reference, Volume 2 of 3: Routing Protocols</i> , Release 12.4
IPv6 supported feature list	<i>Start Here: Cisco IOS Software Release Specifics for IPv6 Features</i>
IPv6 commands: complete command syntax, command mode, defaults, usage guidelines, and examples	<i>IPv6 for Cisco IOS Command Reference</i>
IPv4 configuration and command reference information	<i>Cisco IOS Release 12.4 Configuration Guides and Command References</i>

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

MIBs

MIBs	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	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

RFCs

RFCs	Title
RFC 2080	<i>RIPng for IPv6</i>

Technical Assistance

Description	Link
The Cisco Technical Support website contains thousands of pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	http://www.cisco.com/techsupport