

How to Configure IPv6 Routing EIGRP Support

Enabling EIGRP for IPv6 on an Interface

EIGRP for IPv6 is directly configured on the interfaces over which it runs, which allows EIGRP for IPv6 to be configured without the use of a global IPv6 address.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **ipv6 unicast-routing**
4. **interface** *type number*
5. **no shut**
6. **ipv6 enable**
7. **ipv6 eigrp** *as-number*
8. **ipv6 router eigrp** *as-number*
9. **router-id** *ip-address*
10. **exit**
11. **show ipv6 eigrp** [*as-number*] **interfaces** [*type number*] [**detail**]

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	ipv6 unicast-routing Example: Device(config)# ipv6 unicast-routing	Enables the forwarding of IPv6 unicast datagrams.

	Command or Action	Purpose
Step 4	interface <i>type number</i> Example: Device(config)# interface FastEthernet 0/0	Specifies the interface on which EIGRP is to be configured.
Step 5	no shut Example: Device(config-if)# no shut	Enables no shut mode so the routing process can start running.
Step 6	ipv6 enable Example: Device(config-if)# ipv6 enable	Enables IPv6 processing on an interface that has not been configured with an explicit IPv6 address.
Step 7	ipv6 eigrp <i>as-number</i> Example: Device(config-if)# ipv6 eigrp 1	Enables EIGRP for IPv6 on a specified interface.
Step 8	ipv6 router eigrp <i>as-number</i> Example: Device(config-if)# ipv6 router eigrp 1	Enters router configuration mode and creates an EIGRP IPv6 routing process.
Step 9	router-id <i>ip-address</i> Example: Device(config-router)# router-id 10.1.1.1	Enables the use of a fixed router ID. Use this command only if an IPv4 address is not defined on the router eligible for router ID.
Step 10	exit Example: Device(config-router)# exit	Enter three times to return to privileged EXEC mode.
Step 11	show ipv6 eigrp [<i>as-number</i>] interfaces [<i>type number</i>] [<i>detail</i>] Example: Device# show ipv6 eigrp interfaces	Displays information about interfaces configured for EIGRP for IPv6 .