

To configure a Cisco device to obtain an IPv6 address from a DHCPv6 server, follow these steps:

- **Enable IPv6 routing** on the router using the command `ipv6 unicast-routing` in global configuration mode.
- **Enable IPv6 on the interface** where the DHCPv6 client will operate using the `IPv6 enable` command.
- **Configure the interface to use DHCPv6** to obtain its IPv6 address by entering the command `'ipv6 address dhcp '` in interface configuration mode. This command enables the interface to dynamically learn its IPv6 address from a DHCPv6 server. For a faster two-message exchange, you can use `ipv6 address dhcp rapid-commit`.
- **Verify the configuration** by using the `show ipv6 interface` command to check the interface status and assigned address. To see detailed information about the DHCPv6 client configuration, including DNS servers and domain name, use the `show ipv6 dhcp interface` command.

The device will then send a Solicit message to discover available DHCPv6 servers, receive an Advertise message, send a Request, and finally receive a Reply with the IPv6 address and other configuration details like DNS servers and domain name.