



## DHCPv6 Ethernet Remote ID Option

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The DHCPv6 Ethernet Remote ID Option feature adds the remote ID option to relayed (RELAY-FORWARD) DHCP for IPv6 (DHCPv6) packets. The information contained in the remote ID option can be used in the server's decision making about the prefixes and configuration parameters that the client receives.

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### 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](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

### Information About DHCPv6 Ethernet Remote ID Option

#### DHCPv6 Ethernet Remote ID Option Overview

The DHCPv6 Ethernet Remote ID Option feature adds the remote ID option to relayed (RELAY-FORWARD) DHCP for IPv6 (DHCPv6) packets.

The remote ID option provides information to the DHCPv6 server, including port information, the system's DHCPv6 Unique Identifier (DUID), and the VLAN ID. Collectively, this information can be used to uniquely identify both the relay and the port on the relay through which the client's packet arrived. The DHCPv6 server

uses this information to select parameters specific to a particular user, host, or subscriber modem. This feature works only for Ethernet interfaces.

No user configuration is required for this feature. The addition of the remote ID option to the RELAY-FORWARD packet occurs automatically.

The DHCPv6 server does not need to echo the remote ID option in the RELAY-REPLY packet. Internet Assigned Numbers Authority (IANA) has assigned the DHCPv6 option code 37 for the relay agent remote ID option.

If the remote ID option is included in the RELAY-REPLY packet, the option is stripped out of the packet before the packet is relayed to the client.

## Restrictions for DHCPv6 Ethernet Remote ID Option

Depending on your release, the DHCPv6 Ethernet Remote ID Option feature works only on Ethernet interfaces.

## Additional References for DHCPv6 Ethernet Remote ID Option

### Related Documents

Related Topic	Document Title
Cisco IOS commands	<a href="#">Cisco IOS Master Command List, All Releases</a>
Cisco IOS IP Addressing Services commands	<a href="#">Cisco IOS IP Addressing Services Command Reference</a>

### Standards and RFCs

Standard/RFC	Title
RFC 4649	<i>Dynamic Host Configuration Protocol for IPv6 (DHCPv6) Relay Agent Remote-ID Option</i>

**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.	<a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a>

## Feature Information for DHCPv6 Ethernet Remote ID Option

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 [http://www.cisco.com/go/featurenavigator](#). An account on Cisco.com is not required.

**Table 1: Feature Information for DHCPv6 Ethernet Remote ID Option**

Feature Name	Releases	Feature Information
DHCPv6 Ethernet Remote ID Option	Cisco IOS XE Release 3.2SE	The DHCPv6 Ethernet Remote ID Option feature adds the remote-ID option to relayed (RELAY-FORWARD) DHCPv6 packets.

