



## DHCPv4 Relay per Interface VPN ID Support

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In a Multiprotocol Label Switching (MPLS) virtual private network (VPN) environment, a relay agent can reside in a network element that also has access to one or more MPLS VPNs. A DHCP server that provides service to DHCP clients on those different VPNs must locate the VPN in which each client resides. The network element that contains the relay agent typically captures the VPN association of the DHCP client and includes this information in the relay agent information option of the DHCP packet.

The DHCPv4 Relay per Interface VPN ID Support feature allows the Cisco IOS DHCP Relay Agent to be configured per interface to override the global configuration of the **ip dhcp relay information option vpn** command. This feature allows subscribers with different relay information option VPN ID requirements on different interfaces to be reached from one Cisco router.

### Configuration Information

Configuration information is included in the “Configuring the Cisco IOS Relay Agent” module in the *Cisco IOS IP Addressing Services Configuration Guide*, Release 12.4T, at the following URL:

- [http://www.cisco.com/en/US/docs/ios/ipaddr/configuration/guide/iad\\_dhcp\\_rly\\_agt\\_ps6441\\_TSD\\_Products\\_Configuration\\_Guide\\_Chapter.html](http://www.cisco.com/en/US/docs/ios/ipaddr/configuration/guide/iad_dhcp_rly_agt_ps6441_TSD_Products_Configuration_Guide_Chapter.html)

The following section provides information about this feature:

- Configuring DHCP Relay Agent Support for MPLS VPNs

For a complete list of features included in the “Configuring the Cisco IOS Relay Agent” module, see the Feature Information Table located toward the end of the module.

### Command Reference Information

Command reference information is included in the DHCP Commands chapters of the *Cisco IOS IP Addressing Services Command Reference*, Release 12.4T.

### New or Modified Commands

The following command is new for this feature:

- **ip dhcp relay information option vpn-id**

### List of All Release 12.4T Commands

An alphabetical list of all Cisco IOS Release 12.4T commands is in the *Cisco IOS Master Commands List*, Release 12.4T, at the following URL:



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- [http://www.cisco.com/en/US/docs/ios/mcl/124tmcl/124t\\_book.html](http://www.cisco.com/en/US/docs/ios/mcl/124tmcl/124t_book.html)

### List of All New, Modified, Removed, and Replaced Release 12.4T Commands

Alphabetized lists of all new, modified, removed, and replaced commands for each Cisco IOS Release 12.4T release are in the *Cisco IOS New, Modified, Removed, and Replaced Commands*, Release 12.4T, document at the following URL:

- [http://www.cisco.com/en/US/products/ps6441/products\\_product\\_index09186a00805db026.html](http://www.cisco.com/en/US/products/ps6441/products_product_index09186a00805db026.html)

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