

Implementing the Dynamic Host Configuration Protocol

This module describes the concepts and tasks you will use to configure Dynamic Host Configuration Protocol (DHCP).

Feature History for Implementing the Dynamic Host Configuration Protocol

Release	Modification
Release 3.2	This feature was introduced.
Release 3.4.0	The DHCP IPv6 Information Pool configuration procedure was added and DCHP relay information description was updated.
Release 3.7.0	The DHCP CLI was modified.

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Prerequisites for Configuring DHCP Relay Agent

The following prerequisites are required to configure a DHCP relay agent:

• You must be in a user group associated with a task group that includes the proper task IDs. The command reference guides include the task IDs required for each command. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

- A configured and running DHCP client and DHCP server
- · Connectivity between the relay agent and DCHP server

Information About DHCP Relay Agent

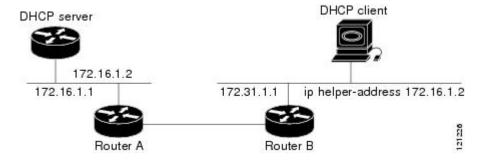
A DHCP relay agent is a host that forwards DHCP packets between clients and servers that do not reside on a shared physical subnet. Relay agent forwarding is distinct from the normal forwarding of an IP router where IP datagrams are switched between networks transparently.

DHCP clients use User Datagram Protocol (UDP) broadcasts to send DHCPDISCOVER messages when they lack information about the network to which they belong.

If a client is on a network segment that does not include a server, a relay agent is needed on that network segment to ensure that DHCP packets reach the servers on another network segment. UDP broadcast packets are not forwarded, because most routers are not configured to forward broadcast traffic. You can configure a DHCP relay profile and configure one or more helper addresses in it. You can assign the profile to an interface or a VRF.

Figure 1: Forwarding UDP Broadcasts to a DHCP Server Using a Helper Address, page 2 demonstrates the process. The DHCP client broadcasts a request for an IP address and additional configuration parameters on its local LAN. Acting as a DHCP relay agent, Router B picks up the broadcast, changes the destination address to the DHCP server's address and sends the message out on another interface. The relay agent inserts the IP address of the interface, on which the relay profile into the gateway address (giaddr) field of the DHCP packet, which enables the DHCP server to determine which subnet should receive the offer and identify the appropriate IP address range. The relay agent unicasts the messages to the server address, in this case 172.16.1.2 (which is specified by the helper address in the relay profile).

Figure 1: Forwarding UDP Broadcasts to a DHCP Server Using a Helper Address



How to Configure and Enable DHCP Relay Agent

This section contains the following tasks:

Configuring and Enabling the DHCP Relay Agent

Configuring a DHCP Relay Profile

This task describes how to configure and enable the DHCP relay agent.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. profile profile-name relay
- 4. helper-address [vrf vrf- name] address
- **5.** Use one of the following commands:
 - end
 - commit

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhcp ipv4	Enters DHCP IPv4 configuration mode.
	Example:	
	RP/0/0/CPU0:router(config)# dhcp ipv4	
Step 3	profile profile-name relay	Enters DHCP IPv4 profile relay submode.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4)# profile client relay	
Step 4	helper-address [vrf vrf- name] address	Forwards UDP broadcasts, including BOOTP and DHCP.
	Example: RP/0/0/CPU0:router(config-dhcpv4-relay-profile) # helper-address vrf foo 10.10.1.1	• The value of the <i>address</i> argument can be a specific DHCP server address or a network address (if other DHCP servers are on the destination network segment). Using the network address enables other servers to respond to DHCP requests.

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	Command or Action	Purpose
		For multiple servers, configure one helper address for each server.
Step 5	Use one of the following commands:	Saves configuration changes.
	• end • commit	• When you issue the end command, the system prompts you to commit changes:
	<pre>Example: RP/0/0/CPU0:router(config)# end</pre>	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]:
	<pre>RP/0/0/CPU0:router(config)# commit</pre>	 Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
		 Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.
		 Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Configuring the DHCPv6 (Stateless) Relay Agent

Perform this task to specify a destination address to which client messages are forwarded and to enable Dynamic Host Configuration Protocol (DHCP) for IPv6 relay service on the interface.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv6
- 3. interface type interface-path-id relay
- **4. destination** *ipv6-address*
- **5.** Use one of the following commands:
 - end
 - commit

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhep ipv6	Enables DHCP for IPv6 and enters the DHCP IPv6 configuration mode.
	Example:	
	<pre>RP/0/0/CPU0:router(config) # dhcp ipv6 RP/0/0/CPU0:router(config-dhcpv6)#</pre>	
Step 3	interface type interface-path-id relay	Specifies an interface type and interface-path-id, places the router in interface configuration mode, and enables DHCPv6 relay service on the interface.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv6) # interface tenGigE 0/5/0/0 relay	
Step 4	destination ipv6-address	Specifies a destination address to which client packets are forwarded.
	Example:	When relay service is enabled on an interface, a DHCP for IPv6 message received on that interface is forwarded to all configured relay destinations. The incoming DHCP for IPv6 message may have come from a client on
	<pre>RP/0/0/CPU0:router(config-dhcpv6-if) # destination 10:10::10</pre>	that interface, or it may have been relayed by another relay agent.
Step 5	Use one of the following commands:	Saves configuration changes.

Command or Action	Purpose
• end • commit	When you issue the end command, the system prompts you to commit changes:
<pre>Example: RP/0/0/CPU0:router(config) # end or RP/0/0/CPU0:router(config) # commit</pre>	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]: • Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode. • Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes. • Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes. • Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Enabling DHCP Relay Agent on an Interface

This task describes how to enable the Cisco IOS XR DHCP relay agent on an interface.



On Cisco IOS XR software, the DHCP relay agent is disabled by default.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. interface type name relay profile profile-name
- **4.** Use one of the following commands:
 - end
 - commit

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhep ipv4	Enters DHCP IPv4 configuration submode.
	Example:	
	RP/0/0/CPU0:router(config-if)# dhcp ipv4	
Step 3	interface type name relay profile profile-name	Attaches a relay profile to an interface.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4)# interface	
	FastEthernet0/0 relay profile client	
Step 4	Use one of the following commands:	Saves configuration changes.
	• end	When you issue the end command, the system prompts you
	• commit	to commit changes:
	Example:	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]:
	RP/0/0/CPU0:router(config)# end Or	 Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
	RP/0/0/CPU0:router(config)# commit	 Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.
		Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Disabling DHCP Relay on an Interface

This task describes how to disable the DHCP relay on an interface by assigning the none profile to the interface.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. interface type name none
- **4.** Use one of the following commands:
 - end
 - commit

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhep ipv4	Enters DHCP IPv4 configuration submode.
	Example:	
	RP/0/0/CPU0:router(config)# dhcp ipv4	
Step 3	interface type name none	Disables the DHCP relay on the interface.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4-relay-profile)# interface	
	pos 0/1/4/1 none	
Step 4	Use one of the following commands:	Saves configuration changes.
	• end	• When you issue the end command, the system
	• commit	prompts you to commit changes:
		Uncommitted changes found, commit them
	Example:	<pre>before exiting(yes/no/cancel)? [cancel]:</pre>
	RP/0/0/CPU0:router(config)# end or	• Entering yes saves configuration changes to the running configuration file, exits the
	RP/0/0/CPU0:router(config)# commit	configuration session, and returns the router to EXEC mode.
		 Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.

Command or Action	Purpose
	 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.
	• Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Enabling DHCP Relay on a VRF

This task describes how to enable DHCP relay on a VRF.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. vrf vrf-name relay profile profile-name
- **4.** Use one of the following commands:
 - end
 - commit

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhcp ipv4	Enters DHCP IPv4 configuration submode.
	Example:	
	RP/0/0/CPU0:router(config)# dhcp ipv4	
Step 3	vrf vrf-name relay profile profile-name	Enables DHCP relay on a VRF.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4) #vrf default relay profile client	

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	Command or Action	Purpose
Step 4	Use one of the following commands:	Saves configuration changes.
	• end	• When you issue the end command, the system prompts you to
	• commit	commit changes:
	Example:	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]:
	RP/0/0/CPU0:router(config)# end Or	 Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
	RP/0/0/CPU0:router(config)# commit	 Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.
		• Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Configuring the Relay Agent Information Feature

This task describes how to configure the DHCP relay agent information option processing capabilities.

A DHCP relay agent may receive a message from another DHCP relay agent that already contains relay information. By default, the relay information from the previous relay agent is replaced (using the replace option).

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. profile profile-name relay
- 4. relay information option
- 5. relay information check
- **6.** relay information policy {drop | keep}
- 7. relay information option allow-untrusted
- **8.** Use one of the following commands:
 - end
 - commit

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhep ipv4	Enters DHCP IPv4 configuration mode.
	Example:	
	RP/0/0/CPU0:router(config)# dhcp ipv4	
Step 3	profile profile-name relay	Enters DHCP IPv4 profile relay mode.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4) # profile client relay	
Step 4	relay information option	Enables the system to insert the DHCP relay agent information option (option-82 field) in forwarded
	Example:	BOOTREQUEST messages to a DHCP server.
	<pre>RP/0/0/CPU0:router(config-dhcpv4-relay-profile)# relay information option</pre>	This option is injected by the relay agent while forwarding client-originated DHCP packets to the server. Servers recognizing this option can use the information to implement IP address or other parameter assignment policies. When replying, the DHCP server echoes the option back to the relay agent. The relay agent removes the option before forwarding the reply to the client.
		• The relay agent information is organized as a single DHCP option that contains one or more suboptions. These options contain the information known by the relay agent.
		The supported suboptions are:
		∘ Remote ID
		∘ Circuit ID
		Note This function is disabled by default.
Step 5	relay information check	(Optional) Configures DHCP to check that the relay agent information option in forwarded BOOTREPLY messages
	Example:	is valid.
	<pre>RP/0/0/CPU0:router(config-dhcpv4-relay-profile)# relay information check</pre>	 By default, DHCP checks that the option-82 field in DHCP reply packets, received from the DHCP server,

	Command or Action	Purpose	
		is valid. If an invalid message is received, the relay agent drops the message. If a valid message is received, the relay agent removes the option-82 field and forwards the packet.	
		Note Use the relay information check command to reenable this functionality if the functionality has been disabled.	
Step 6	relay information policy {drop keep}	(Optional) Configures the reforwarding policy for a DHCP relay agent; that is, whether the relay agent will drop or	
	Example:	keep the relay information.	
	RP/0/0/CPU0:router(config) # dhcp relay information policy drop		
Step 7	relay information option allow-untrusted	(Optional) Configures the DHCP IPv4 Relay not to discard BOOTPREQUEST packets that have an existing relay	
	Example:	information option and the giaddr set to zero.	
	<pre>RP/0/0/CPU0:router(config-dhcpv4-relay-profile)# relay information check</pre>		
Step 8	Use one of the following commands:	Saves configuration changes.	
	• end • commit	 When you issue the end command, the system prompts you to commit changes: 	
	Example: RP/0/0/CPU0:router(config) # end or	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]: • Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to	
	RP/0/0/CPU0:router(config)# commit	EXEC mode. • Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.	
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes. 	
		• Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.	

Configuring Relay Agent Giaddr Policy

This task describes how to configure BOOTPREQUEST packets for Dynamic Host Configuration Protocol (DHCP) IPv4 Relay processes, that already contain a nonzero giaddr attribute.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. profile profile-name relay
- 4. giaddr policy {replace | drop}
- **5.** Use one of the following commands:
 - end
 - commit

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhep ipv4	Enables the DHCP IPv4 configuration submode.
	Example:	
	RP/0/0/CPU0:router(config)# dhcp ipv4	
Step 3	profile profile-name relay	Enables profile relay submode.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4)# profile client relay	
Step 4	giaddr policy {replace drop}	Specifies the giaddr policy.
	Example:	 replace—Replaces the existing giaddr value with a value that it generates.
	RP/0/0/CPU0:router(config-dhcpv4-relay-profile)# giaddr policy drop	drop—Drops the packet that has an existing nonzero giaddr value.
		•
Step 5	Use one of the following commands:	Saves configuration changes.

Command or Action	Purpose
• end • commit	When you issue the end command, the system prompts you to commit changes:
<pre>Example: RP/0/0/CPU0:router(config) # end or RP/0/0/CPU0:router(config) # commit</pre>	Uncommitted changes found, commit them before exiting (yes/no/cancel)? [cancel]: • Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode. • Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes. • Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes. • Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Configuring the Broadcast Flag Policy

This task describes how to configure DHCP IPv4 Relay to broadcast BOOTPREPLY packets only if the DHCP IPv4 broadcast flag is set in the DHCP IPv4 header.



Note

By default, the DHCP IPv4 Relay always broadcasts BOOTPREPLY packets.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. profile profile-name relay
- 4. broadcast-flag policy check
- **5.** Use one of the following commands:
 - end
 - commit

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	G. G. DUGDID 4
Step 2	dhep ipv4	Configures DHCP IPv4 mode.
	Example:	
	RP/0/0/CPU0:router(config)# dhcp ipv4	
Step 3	profile profile-name relay	Enables profile relay mode.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4)# profile client relay	
Step 4	broadcast-flag policy check	Enables checking of the broadcast flag in packets.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4-relay-profile) # broadcast-flag policy check	
Step 5	Use one of the following commands:	Saves configuration changes.
	• end	• When you issue the end command, the
	• commit	system prompts you to commit changes:
	<pre>Example: RP/0/0/CPU0:router(config) # end or RP/0/0/CPU0:router(config) # commit</pre>	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]: • Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode. • Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.

Command or Action	Purpose
	Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Information About Configuring DHCP IPv6 Information Pools

A *DHCP IPv6 configuration information pool* is a named entity that includes information about available configuration parameters and policies that control assignment of the parameters to clients from the pool. A pool is configured independently of the DHCP service and is associated with the DHCP service through the command line interface.

Each configuration pool can contain the following configuration parameters and operational information:

- Prefix delegation information, which could include a list of available prefixes for a particular client and associated preferred and valid lifetimes
- Domain name service (DNS) servers—List of IPv6 addresses of DNS servers
- Domain search list—String containing domain names for DNS resolution
- SIP server address—List of IPv6 addresses of SIP server
- SIP server domain list—String containing domain names for SIP server

How to Configure DHCP IPv6 Information Pools

This section contains the following task:

Configuring Cisco IOS XR DHCP IPv6 Information Pool Option

This task describes how to enable support for the DHCP IPv6 information pool option with the name pool1.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv6
- 3. pool pool-name
- **4.** Use one of the following commands:
 - end
 - commit
- 5. show dhep ipv6 pool [pool-name]

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	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhcp ipv6	Enables the DHCP IPv6 configuration mode.
	Example:	
	RP/0/0/CPU0:router (config)# dhcp ipv6	
Step 3	pool pool-name	Creates a DHCP pool specified by the <i>pool-name</i> argument for the prefix delegation and the other configurations on the interface.
	Example:	
	RP/0/0/CPU0:router (config-dhcp ipv6) # pool pool1	
Step 4	Use one of the following commands:	Saves configuration changes.
	• end	• When you issue the end command, the system prompts you to
	• commit	commit changes:
	Example:	Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]:
	RP/0/0/CPU0:router(config)# end or	 Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
	RP/0/0/CPU0:router(config)# commit	 Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.
		 Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.
Step 5	show dhcp ipv6 pool [pool-name]	(Optional) Displays the DHCP IPv6 pool name.
	Example:	
	RP/0/0/CPU0:router# show dhcp ipv6 pool pool1	

Configuration Examples for the DHCP Relay Agent

This section provides the following configuration examples:

DHCP Relay Profile: Example

The following example shows how to configure the Cisco IOS XR relay profile:

```
dhcp ipv4
profile client relay
helper-address vrf foo 10.10.1.1
!
```

DHCP Relay on an Interface: Example

The following example shows how to enable the DHCP relay agent on an interface:

```
dhcp ipv4 interface gigabitethernet 0/1/1/0 relay profile client
```

DHCP Relay on a VRF: Example

The following example shows how to enable the DHCP relay agent on a VRF:

```
dhcp ipv4
  vrf default relay profile client
```

Relay Agent Information Option Support: Example

The following example shows how to enable the relay agent and the insertion and removal of the DHCP relay information option:

```
dhcp ipv4
  profile client relay
relay information
check
!
```

Relay Agent Giaddr Policy: Example

The following example shows how to configure relay agent giaddr policy:

```
dhcp ipv4
  profile client relay
  giaddr policy drop
```

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.!

Cisco IOS XR Broadcast Flag Policy: Example

This task describes how to configure DHCP IPv4 Relay to broadcast BOOTPREPLY packets only if the DHCP IPv4 broadcast flag is set in the DHCP IPv4 header.



Note

By default, the DHCP IPv4 Relay always broadcasts BOOTPREPLY packets.

SUMMARY STEPS

- 1. configure
- 2. dhcp ipv4
- 3. profile profile name relay
- 4. broadcast-flag policy check
- **5.** Use one of the following commands:
 - end
 - commit

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/0/CPU0:router# configure	
Step 2	dhep ipv4	Configures DHCP IPv4 mode.
	Example:	
	RP/0/0/CPU0:router(config) # dhcp ipv4	
Step 3	profile profile name relay	Enables profile relay mode.
	Example:	
	RP/0/0/CPU0:router(config-dhcpv4)# profile client relay	
Step 4	broadcast-flag policy check	Enables checking of the broadcast flag in
	Formula	packets.
	Example:	
	<pre>RP/0/0/CPU0:router(config-dhcpv4-relay-profile) # broadcast-flag policy check</pre>	

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	Command or Action	Purpose
Step 5	Use one of the following commands:	Saves configuration changes.
	• end	• When you issue the end command, the
	• commit	system prompts you to commit changes:
	Example:	Uncommitted changes found, commit them before exiting(yes/no/cancel)?
	RP/0/0/CPU0:router(config)# end	[cancel]:
	or RP/0/0/CPU0:router(config)# commit	 Entering yes saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
		 Entering no exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
		 Entering cancel leaves the router in the current configuration session without exiting or committing the configuration changes.
		 Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.

Additional References

The following sections provide references related to implementing the Cisco IOS XR DHCP relay agent.

Related Documents

Related Topic	Document Title
Cisco IOS XR DHCP commands	DHCP Commands module in the Cisco IOS XR IP Addresses and Services Command Reference for the Cisco XR 12000 Series Router
Getting started material	Cisco IOS XR Getting Started Guide for the Cisco XR 12000 Series Router

Related Topic	Document Title
Information about user groups and task IDs	Configuring AAA Services module in the Cisco IOS XR System Security Configuration Guide for the Cisco XR 12000 Series Router

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
	To locate and download MIBs, use the Cisco MIB Locator found at the following URL and choose a platform under the Cisco Access Products menu: http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

RFCs

RFC	Title
RFC 2131	Dynamic Host Configuration Protocol
RFC 3315	Dynamic Host Configuration Protocol for IPv6 (DHCPv6)

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.	

Additional References