



# Network Switch CLI Guide

## DHCP Relay Commands

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# DHCP Relay Commands

## ip dhcp relay enable (Global)

<b>Syntax</b>	<b>ip dhcp relay enable</b> <b>no ip dhcp relay enable</b>
<b>Parameters</b>	N/A.
<b>Default Configuration</b>	DHCP relay feature is disabled.
<b>Command Mode</b>	Global configuration mode.
<b>Usage</b>	Use the <b>ip dhcp relay enable</b> Global Configuration mode command to enable the DHCP relay feature on the device. Use the <b>no</b> form of this command to disable the DHCP relay feature.
<b>Example</b>	The following example enables the DHCP relay feature on the device.  switchxxxxx(config)# <b>ip dhcp relay enable</b>
<b>User Guideline</b>	The TFTP or SCP protocol is used to download/upload a configuration file.

## ip dhcp relay enable(Interface)

<b>Syntax</b>	<b>ip dhcp relay enable</b> <b>no ip dhcp relay enable</b>
<b>Parameters</b>	N/A.
<b>Default Configuration</b>	Disabled.
<b>Command Mode</b>	Interface Configuration mode.
<b>Usage</b>	Use the <b>ip dhcp relay enable</b> Interface Configuration mode command to enable the DHCP relay feature on an interface. Use the <b>no</b> form of this command to disable the DHCP relay agent feature on an interface.
<b>Example</b>	The following example enables DHCP Relay on VLAN 21.  switchxxxxx(config)# <b>interface vlan 21</b> switchxxxxx(config-if)# <b>ipdhcprelayenable</b>
<b>User Guideline</b>	The operational status of DHCP Relay on an interface is active if one of the following conditions exist: DHCP Relay is globally enabled, and there is an IP address defined on the interface. Or DHCP Relay is globally enabled, there is no IP address defined on the interface, the interface is a VLAN, and option 82 is enabled.

## ip dhcp relay address (Global)

<b>Syntax</b>	<b>ip dhcp relay address</b> <i>ip-address</i> <b>no ip dhcp relay address</b> [ <i>ip-address</i> ]
<b>Parameters</b>	<b>ip-address</b> —Specifies the DHCP server IP address. Up to 8 servers can be defined.
<b>Default Configuration</b>	No server is defined.
<b>Command Mode</b>	Global Configuration mode.
<b>Usage</b>	Use the <b>ip dhcp relay address</b> Global Configuration mode command to define the DHCP servers available for the DHCP relay. Use the <b>no</b> form of this command to remove the server from the list.
<b>Example</b>	The following example defines the DHCP server on the device.  switchxxxxx(config)# <b>ip dhcp relay address 176.16.1.1</b>
<b>User Guideline</b>	Use the ip dhcp relay address command to define a global DHCP Server IP address. To define a few DHCP Servers, use the command a few times. To remove a DHCP Server, use the no form of the command with the <i>ip-address</i> argument. The no form of the command without the <i>ip-address</i> argument deletes all global defined DHCP servers.

## ip dhcp relay address(Interface)

<b>Syntax</b>	<b>ip dhcp relay address</b> <i>ip-address</i> <b>no ip dhcp relay address</b> [ <i>ip-address</i> ]
<b>Parameters</b>	<b>ip-address</b> —Specifies the DHCP server’s IP address. Up to 8 servers can be defined.
<b>Default Configuration</b>	No server is defined.
<b>Command Mode</b>	Interface Configuration mode.
<b>Usage</b>	Use the <b>ip dhcp relay address</b> Interface Configuration (VLAN, Ethernet,Port-channel) command to define the DHCP servers available by the DHCP relayfor DHCP clients connected to the interface. Use the <b>no</b> form of this command to remove the server from the list.
<b>Example</b>	The following example defines the DHCP server on the device.  switchxxxxx(config)# <b>interface vlan 21</b> switchxxxxx(config-if)# <b>ipdhcprelayaddress176.16.11</b>
<b>User Guideline</b>	Use the ip dhcp relay address command to define a DHCP Server IP address per the interface. To define multiple DHCP Servers, use the command multiple times. To remove a DHCP server, use the no form of the command with the <i>ip-address</i> argument. The no form of the command without the <i>ip-address</i> argument deletes all DHCP servers.

## show ip dhcprelay

<b>Syntax</b>	<b>show ip dhcp relay</b>
<b>Parameters</b>	-
<b>Default Configuration</b>	No file name.
<b>Command Mode</b>	User EXEC mode.
<b>Usage</b>	Use the <b>show ip dhcp relay</b> EXEC mode command to display the DHCP relay information.
<b>Example</b>	<p>The following example gives an example of the command output:</p> <pre> switchxxxxx# <b>show ip dhcp relay</b> DHCP relay is globally enabled DHCPrelayisenabledonPorts: Inactive: po1-2 DHCP relay is enabled on VLANs: 1, 2, 4, 5 Active:1,2,4,5Inactive: Global Servers: 1.1.1.1 , 2.2.2.2 VLAN 1: 1.1.1.1, 100.10.1.1 VLAN 2: 3.3.3.3, 4.4.4.4, 5.5.5.5 VLAN 10: 6.6.6.6 </pre>
<b>User Guideline</b>	-

