

DHCP for WLANs

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Information About Dynamic Host Configuration Protocol

You can configure WLANs to use the same or different Dynamic Host Configuration Protocol (DHCP) servers or no DHCP server. Two types of DHCP servers are available—internal and external.

Internal DHCP Servers

The device contains an internal DHCP server. This server is typically used in branch offices that do not have a DHCP server.

The internal server provides DHCP addresses to wireless clients, direct-connect APs, and DHCP requests that are relayed from APs. Only lightweight APs are supported. If you want to use the internal DHCP server, ensure that you configure SVI for the client VLAN, and set the IP address as DHCP server IP address.

DHCP option 43 is not supported on the internal server. Therefore, the APs must use an alternative method to locate the management interface IP address of the device, such as local subnet broadcast, Domain Name System (DNS), or priming.

When clients use the internal DHCP server of the device, IP addresses are not preserved across reboots. As a result, multiple clients can be assigned to the same IP address. To resolve any IP address conflicts, clients must release their existing IP address and request a new one.



Note

- VRF is not supported in the internal DHCP servers.
- DHCPv6 is not supported in the internal DHCP servers.

General Guidelines

• Internal DHCP server serves both wireless client and wired client (wired client includes AP).

- To serve wireless client with internal DHCP server, an unicast DHCP server IP address must be configured for wireless client. Internal DHCP server IP address must be configured under the server facing interface, which can be loopback interface, SVI interface, or L3 physical interface.
- To use internal DHCP server for both wireless and wired client VLAN, an IP address must be configured under client VLAN SVI interface.
- For wireless client, in DHCP helper address configuration, the IP address of the internal DHCP server must be different from address of wireless client VLAN SVI interface.
- For wireless client with internal DHCP server support, the internal DHCP server can be configured using global configuration command, under the client VLAN SVI interface or under the wireless policy profile.
- An internal DHCP server pool can also serve clients of other controllers.

External DHCP Servers

The operating system is designed to appear as a DHCP relay to the network and as a DHCP server to clients with industry-standard external DHCP servers that support DHCP Relay, which means that each controller appears as a DHCP relay agent to the DHCP server, and as a DHCP server in the virtual IP address to wireless clients.

Because the controller captures the client IP address that is obtained from a DHCP server, it maintains the same IP address for that client during intra controller, inter controller, and inter-subnet client roaming.



Note

External DHCP servers support DHCPv6.

DHCP Assignments

You can configure DHCP on a per-interface or per-WLAN basis. We recommend that you use the primary DHCP server address that is assigned to a particular interface.

You can assign DHCP servers for individual interfaces. You can configure the management interface, AP manager interface, and dynamic interface for a primary and secondary DHCP server, and configure the service-port interface to enable or disable DHCP servers. You can also define a DHCP server on a WLAN (in this case, the server overrides the DHCP server address on the interface assigned to the WLAN).

Security Considerations

For enhanced security, we recommend that you ask all clients to obtain their IP addresses from a DHCP server. To enforce this requirement, you can configure all the WLANs with a DHCP Address. Assignment Required setting, which disallows client static IP addresses. If DHCP Address Assignment Required is selected, clients must obtain an IP address through DHCP. Any client with a static IP address is not allowed on the network. The controller monitors DHCP traffic because it acts as a DHCP proxy for the clients.



Note

- WLANs that support management over wireless must allow management (device-servicing) clients to obtain an IP address from a DHCP server.
- The operating system is designed to appear as a DHCP relay to the network and as a DHCP server to clients with industry-standard external DHCP servers that support DHCP relay. This means that each controller appears as a DHCP relay to the DHCP server and as a DHCP server at the virtual IP address to wireless clients.

You can create WLANs with DHCP Address Assignment Required disabled. If you do this, clients have the option of using a static IP address or obtaining an IP address from a designated DHCP server. However, note that this might compromise security.



Note

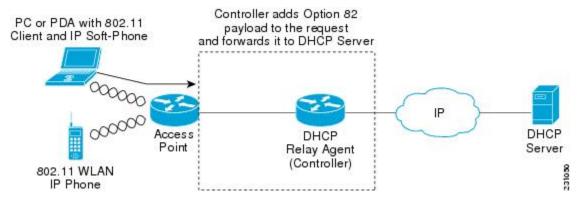
DHCP Address Assignment Required is not supported for wired guest LANs.

You can create separate WLANs with DHCP Address Assignment Required configured as disabled. This is applicable only if DHCP proxy is enabled for the controller. You must not define the primary or secondary configuration DHCP server instead you should disable the DHCP proxy. These WLANs drop all the DHCP requests and force clients to use a static IP address. These WLANs do not support management over wireless connections.

DHCP Option 82

DHCP option 82 provides additional security when DHCP is used to allocate network addresses. It enables the controller to act as a DHCP relay agent to prevent DHCP client requests from untrusted sources. You can configure the controller to add option 82 information to DHCP requests from clients before forwarding the requests to the DHCP server.

Figure 1: DHCP Option 82



The AP forwards all the DHCP requests from a client to the controller. The controller adds the DHCP option 82 payload and forwards the request to the DHCP server. The payload can contain the MAC address or the MAC address and SSID of the AP, depending on how you configure this option.



Note

DHCP packets that already include a relay agent option are dropped at the controller.

For DHCP option 82 to operate correctly, DHCP proxy must be enabled.

Restrictions for Configuring DHCP for WLANs

- If you override the DHCP server in a WLAN, you must ensure that you configure the underlying Cisco IOS configuration to make sure that the DHCP server is reachable.
- WLAN DHCP override works only if DHCP service is enabled on the controller.

You can configure DHCP service in either of the following ways:

• Configuring the DHCP pool on the controller.

Check the **Enable DNS Proxy** check box to enable DNS proxy.

 Configuring a DHCP relay agent on the SVI. Note that the VLAN of the SVI must be mapped to the WLAN where DHCP override is configured.

How to Configure DHCP for WLANs

Configuring DHCP Scopes (GUI)

Procedure

Step 1 Choose Administration > DHCP Pools. Step 2 In the **Pools** section, click **Add** to add a new DHCP pool. The **Create DHCP Pool** dialog box is displayed. Step 3 In the **DHCP Pool Name** field, enter a name for the new DHCP pool. Step 4 From the **IP Type** drop-down list, choose the IP address type. In the **Network** field, enter the network served by this DHCP scope. This IP address is used by the management Step 5 interface with netmask applied, as configured in the **Interfaces** window. Step 6 In the **Subnet Mask** field, enter the subnet mask assigned to all the wireless clients. Step 7 In the **Starting ip** field, enter the starting IP address. Step 8 In the **Ending ip** field, enter the trailing IP address. Step 9 In the **Reserved Only** field, enable or disable it. From the Lease drop-down list, choose the lease type as either User Defined or Never Expires. If you choose Step 10 User Defined, you can enter the amount of time that an IP address is granted to a client. Step 11 To perform advanced configuration for DHCP scope, click **Advanced**.

Step 12

- In the **Default Router(s)** field, enter the IP address of the optional router or routers that connect to the device and click the + icon to add them to the list. Each router must include a DHCP forwarding agent that enables a single device to serve the clients of multiple devices.
- In the **DNS Server(s)** field, enter the IP address of the optional DNS server or servers and click the + icon to add them to the list. Each DNS server must be able to update a client's DNS entry to match the IP address assigned by the DHCP scope.
- In the **NetBios Name Server(s)** field, enter the IP address of the optional Microsoft NetBIOS name server or servers, such as Microsoft Windows Internet Naming Service (WINS) server, and click the + icon to add them to the list.
- **Step 16** In the **Domain** field, enter the optional domain name of the DHCP scope for use with one or more DNS servers.
- To add **DHCP** options, click **Add** in the **DHCP Options List** section. DHCP provides an internal framework for passing configuration parameters and other control information, such as DHCP options, to the clients on your network. DHCP options carry parameters as tagged data stored within protocol messages exchanged between the DHCP server and its clients.
- **Step 18** Enter the **DHCP** option that you want to add.
- Step 19 Click Save & Apply to Device.

Configuring DHCP Scopes (CLI)

| | Command or Action | Purpose |
|--------|---|--|
| Step 1 | configure terminal | Enters global configuration mode. |
| | Example: | |
| | Device# configure terminal | |
| Step 2 | ip dhcp pool pool-name | Configures the DHCP pool address. |
| | Example: | |
| | Device(config)# ip dhcp pool test-pool | |
| Step 3 | network network-name mask-address | Specifies the network number in dotted-decima |
| | Example: | notation and the mask address. |
| | Device(dhcp-config)# network 209.165.200.224 255.255.255.0 | |
| Step 4 | dns-server hostname | Specifies the DNS name server. You can specify |
| | Example: | an IP address or a hostname. |
| | Device(dhcp-config)# dns-server example.com | |
| Step 5 | end | Returns to privileged EXEC mode. |
| | Example: | |
| | Device(dhcp-config)# end | |

Configuring the Internal DHCP Server

Configuring the Internal DHCP Server Under Client VLAN SVI (GUI)

Procedure

- **Step 1** Choose Configuration > Layer2 > VLAN > SVI.
- Step 2 Click an SVI.
- Step 3 Click the Advanced tab.
- Step 4 Under DHCP Relay settings, enter the IPV4 Helper Address.
- Step 5 Click Update & Apply to Device.

Configuring the Internal DHCP Server Under Client VLAN SVI (CLI)

Before you begin

- For wireless clients, only two DHCP servers are supported.
- To use the internal DHCP server for both wireless and wired client VLAN, an IP address must be configured under the client VLAN SVI.
- For wireless clients, the IP address of the internal DHCP server must be different from the address of the wireless client VLAN SVI (in the DHCP helper address configuration).
- For wireless clients, the internal DHCP server can be configured under the client VLAN SVI or under the wireless policy profile.

| | Command or Action | Purpose |
|--------|--|---|
| Step 1 | configure terminal | Enters global configuration mode. |
| | Example: | |
| | Device# configure terminal | |
| Step 2 | interface loopback interface-number Example: | Creates a loopback interface and enters interface configuration mode. |
| | Device(config)# interface Loopback0 | |
| Step 3 | ip address ip-address | Configures the IP address for the interface. |
| | Example: | |
| | Device(config-if)# ip address 10.10.10.1 255.255.255.255 | |

| | Command or Action | Purpose |
|---------|--|--|
| Step 4 | exit | Exits interface configuration mode. |
| | Example: | |
| | Device(config-if)# exit | |
| Step 5 | interface vlan vlan-id | Configures the VLAN ID. |
| | Example: | |
| | Device(config)# interface vlan 32 | |
| Step 6 | ip address ip-address | Configures the IP address for the interface. |
| | Example: | |
| | Device(config-if)# ip address 192.168.32.100 255.255.255.0 | |
| Step 7 | ip helper-address ip-address | Configures the destination address for UDP |
| | Example: | broadcasts. |
| | Device(config-if)# ip helper-address 10.10.10.1 | Note If the IP address used in the ip helper-address command is an internal address of the controller an internal DHCP server is used. Otherwise, the external DHCP server is used. |
| Step 8 | no mop enabled | Disables the Maintenance Operation Protocol |
| | Example: | (MOP) for an interface. |
| | Device(config-if)# no mop enabled | |
| Step 9 | no mop sysid | Disables the task of sending MOP periodic |
| | Example: | system ID messages. |
| | Device(config-if)# no mop sysid | |
| Step 10 | exit | Exits interface configuration mode. |
| | Example: | |
| | Device(config-if)# exit | |
| Step 11 | ip dhcp excluded-address ip-address | Specifies the IP address that the DHCP server |
| | Example: | should not assign to DHCP clients. |
| | Device(config)# ip dhcp excluded-address 192.168.32.1 | |
| Step 12 | ip dhcp excluded-address ip-address | Specifies the IP addresses that the DHCP |
| | Example: | server should not assign to DHCP clients. |
| | Device(config)# ip dhcp excluded-address | |

| | Command or Action | Purpose |
|---------|--|---|
| Step 13 | ip dhcp pool pool-name | Configures the DHCP pool address. |
| | Example: | |
| | Device(config)# ip dhcp pool pool-vlan32 | |
| Step 14 | network network-name mask-address | Specifies the network number in |
| | Example: | dotted-decimal notation, along with the mask address. |
| | Device(dhcp-config)# network 192.168.32.0 255.255.255.0 | |
| Step 15 | default-router ip-address | Specifies the IP address of the default router |
| | Example: | for a DHCP client. |
| | Device(dhcp-config)# default-router 192.168.32.1 | |
| Step 16 | exit | Exits DHCP configuration mode. |
| | Example: | |
| | Device(dhcp-config)# exit | |
| Step 17 | wireless profile policy profile-policy | Configures the WLAN policy profile and |
| | Example: | enters wireless policy configuration mode. |
| | Device(config) # wireless profile policy default-policy-profile | |
| Step 18 | central association | Configures central association for locally |
| | Example: | switched clients. |
| | Device(config-wireless-policy)# central association | |
| Step 19 | central dhcp | Configures the central DHCP for locally |
| | Example: | switched clients. |
| | Device(config-wireless-policy)# central dhcp | |
| Step 20 | central switching | Configures WLAN for central switching. |
| | Example: | |
| | <pre>Device(config-wireless-policy)# central switching</pre> | |
| Step 21 | description policy-proile-name | Adds a description for the policy profile |
| | Example: | |
| | Device(config-wireless-policy)# description "default policy profile" | |
| Step 22 | vlan vlan-name | Assigns the profile policy to the VLAN. |
| | Example: | |
| | Device(config-wireless-policy)# vlan 32 | |

| | Command or Action | Purpose |
|---------|---|-------------------------------------|
| Step 23 | no shutdown | Enables the wireless profile policy |
| | Example: | |
| | Device(config-wireless-policy)# no shutdown | |

Configuring the Internal DHCP Server Under a Wireless Policy Profile (GUI)

Procedure

- Step 1 Choose Configuration > Tags & Profiles > Policy.
- **Step 2** Click a policy name.
- Step 3 Click the Advanced tab.
- Step 4 Under DHCP settings, check or uncheck the IPv4 DHCP Required check box and enter the DHCP Server IP Address.
- Step 5 Click Update & Apply to Device.

Configuring the Internal DHCP Server Under a Wireless Policy Profile

| | Command or Action | Purpose |
|--------|--|---|
| Step 1 | configure terminal | Enters global configuration mode. |
| | Example: Device# configure terminal | |
| Step 2 | <pre>interface loopback interface-number Example: Device(config)# interface Loopback0</pre> | Creates a loopback interface and enters interface configuration mode. |
| Step 3 | <pre>ip address ip-address Example: Device(config-if)# ip address 10.10.10.1 255.255.255.255</pre> | Configures the IP address for the interface |
| Step 4 | <pre>exit Example: Device(config-if)# exit</pre> | Exits interface configuration mode. |
| Step 5 | interface vlan vlan-id Example: | Configures the VLAN ID. |

| | Command or Action | Purpose |
|---------|--|--|
| | Device(config)# interface vlan 32 | |
| Step 6 | ip address ip-address | Configures the IP address for the interface. |
| | Example: | |
| | Device(config-if)# ip address 192.168.32.100 255.255.255.0 | |
| Step 7 | no mop enabled | Disables the Maintenance Operation Protocol |
| | Example: | (MOP) for an interface. |
| | Device(config-if)# no mop enabled | |
| Step 8 | no mop sysid | Disables the task of sending MOP periodic |
| | Example: | system ID messages. |
| | Device(config-if)# no mop sysid | |
| Step 9 | exit | Exits interface configuration mode. |
| | Example: | |
| | Device(config-if)# exit | |
| Step 10 | ip dhcp excluded-address ip-address | Specifies the IP address that the DHCP server |
| | Example: | should not assign to DHCP clients. |
| | Device(config)# ip dhcp excluded-address 192.168.32.100 | 5 |
| Step 11 | ip dhcp pool pool-name | Configures the DHCP pool address. |
| | Example: | |
| | Device(config)# ip dhcp pool pool-vlan32 | |
| Step 12 | network network-name mask-address | Specifies the network number in |
| | Example: | dotted-decimal notation along with the mask |
| | Device(dhcp-config)# network 192.168.32.0 255.255.255.0 | address. |
| Step 13 | default-router ip-address | Specifies the IP address of the default router |
| | Example: | for a DHCP client. |
| | Device(dhcp-config)# default-router 192.168.32.1 | |
| Step 14 | exit | Exits DHCP configuration mode. |
| | Example: | |
| | Device(dhcp-config)# exit | |
| Step 15 | wireless profile policy profile-policy | Configures a WLAN policy profile and enters |
| | Example: | wireless policy configuration mode. |
| | Device (config) # wireless profile policy default-policy-profile | , |

| | Command or Action | Purpose |
|---------|--|--|
| Step 16 | central association | Configures central association for locally |
| | Example: | switched clients. |
| | Device(config-wireless-policy)# central association | |
| Step 17 | central switching | Configures local switching. |
| | Example: | |
| | <pre>Device(config-wireless-policy)# central switching</pre> | |
| Step 18 | description policy-proile-name | Adds a description for the policy profile. |
| | Example: | |
| | Device(config-wireless-policy)# description "default policy profile" | |
| Step 19 | ipv4 dhcp opt82 | Enables DHCP Option 82 for the wireless |
| | Example: | clients. |
| | Device(config-wireless-policy)# ipv4 dhcp opt82 | |
| Step 20 | ipv4 dhcp opt82 ascii | Enables ASCII on DHCP Option 82. |
| | Example: | |
| | Device(config-wireless-policy)# ipv4 dhcp opt82 ascii | |
| Step 21 | ipv4 dhcp opt82 format vlan_id | Enables VLAN ID. |
| | Example: | |
| | Device(config-wireless-policy)# ipv4 dhcp opt82 format vlan32 | |
| Step 22 | ipv4 dhcp opt82 rid vlan_id | Supports the addition of Cisco 2-byte Remote |
| | Example: | ID (RID) for DHCP Option 82. |
| | Device(config-wireless-policy)# ipv4 dhcp opt82 rid | |
| Step 23 | ipv4 dhcp server ip-address | Configures the WLAN's IPv4 DHCP server. |
| | Example: | |
| | Device(config-wireless-policy)# ipv4 dhcp server 10.10.10.1 | |
| Step 24 | vlan vlan-name | Assigns the profile policy to the VLAN. |
| | Example: | |
| | Device(config-wireless-policy)# vlan 32 | |
| Step 25 | no shutdown | Enables the wireless profile policy. |
| | | |

| Command or Action | Purpose |
|--|---------|
| Device(config-wireless-policy)# no shutdown | |

Configuring the Internal DHCP Server Globally (GUI)

Procedure

- **Step 1** Choose **Administration** > **DHCP Pools** > **Pools**.
- Step 2 Click Add.

The **Create DHCP Pool** window is displayed.

- Step 3 Enter the DHCP Pool Name, Network, Starting ip, and Ending ip.
- **Step 4** From the **IP Type**, **Subnet Mask**, and **Lease** drop-down lists, choose a value.
- **Step 5** Click the **Reserved Only** toggle button.
- Step 6 Click Apply to Device.

Configuring the Internal DHCP Server Globally (CLI)

| | Command or Action | Purpose |
|--------|--|---|
| Step 1 | configure terminal | Enters global configuration mode. |
| | Example: | |
| | Device# configure terminal | |
| Step 2 | interface loopback interface-num | Creates a loopback interface and enters |
| | Example: | interface configuration mode. |
| | Device(config)# interface Loopback0 | |
| Step 3 | ip address ip-address | Configures the IP address for the interface |
| | Example: | |
| | Device(config-if)# ip address 10.10.10.1 255.255.255.255 | |
| Step 4 | exit | Exits interface configuration mode. |
| | Example: | |
| | Device(config-if)# exit | |
| Step 5 | interface vlanvlan-id | Configures the VLAN ID. |
| | Example: | |
| | Device(config)# interface vlan 32 | |

| | Command or Action | Purpose |
|---------|--|--|
| Step 6 | ip address ip-address | Configures the IP address for the interface. |
| | Example: | |
| | Device(config-if)# ip address 192.168.32.100 255.255.255.0 | |
| Step 7 | no mop enabled | Disables the Maintenance Operation Protocol |
| | Example: | (MOP) for an interface. |
| | Device(config-if)# no mop enabled | |
| Step 8 | no mop sysid | Disables the task of sending the MOP periodic |
| | Example: | system ID messages. |
| | Device(config-if)# no mop sysid | |
| Step 9 | exit | Exits the interface configuration mode. |
| | Example: | |
| | Device(config-if)# exit | |
| Step 10 | ip dhcp-server ip-address | Specifies the target DHCP server parameters. |
| | Example: | |
| | Device(config)# ip dhcp-server 10.10.10.1 | |
| Step 11 | ip dhcp excluded-address ip-address | Specifies the IP address that the DHCP server |
| | Example: | should not assign to DHCP clients. |
| | Device(config)# ip dhcp excluded-address 192.168.32.100 | |
| Step 12 | ip dhcp pool pool-name | Configures the DHCP pool address. |
| | Example: | |
| | Device(config)# ip dhcp pool pool-vlan32 | |
| Step 13 | network network-name mask-address | Specifies the network number in |
| | Example: | dotted-decimal notation along with the mask address. |
| | Device(dhcp-config)# network 192.168.32.0 255.255.255.0 | addicss. |
| Step 14 | default-router ip-address | Specifies the IP address of the default router |
| | Example: | for a DHCP client. |
| | Device(dhcp-config)# default-router 192.168.32.1 | |
| Step 15 | exit | Exits DHCP configuration mode. |
| | Example: | |
| | Device(dhcp-config)# exit | |

| | Command or Action | Purpose |
|---------|--|--|
| Step 16 | wireless profile policy profile-policy | Configures a WLAN policy profile and enters |
| | Example: | wireless policy configuration mode. |
| | Device(config) # wireless profile policy default-policy-profile | |
| Step 17 | central association | Configures central association for locally |
| | Example: | switched clients. |
| | Device(config-wireless-policy)# central association | |
| Step 18 | central dhcp | Configures central DHCP for locally switched |
| | Example: | clients. |
| | Device(config-wireless-policy)# central dhcp | |
| Step 19 | central switching | Configures local switching. |
| | Example: | |
| | Device(config-wireless-policy)# central switching | |
| Step 20 | description policy-proile-name | Adds a description for the policy profile. |
| | Example: | |
| | Device(config-wireless-policy)# description "default policy profile" | |
| Step 21 | vlan vlan-name | Assigns the profile policy to the VLAN. |
| | Example: | |
| | Device(config-wireless-policy)# vlan 32 | |
| Step 22 | no shutdown | Enables the profile policy. |
| | Example: | |
| | Device(config-wireless-policy)# no shutdown | |

Verifying Internal DHCP Configuration

To verify client binding, use the following command:

Device# show ip dhcp binding

Bindings from all pools not associated with VRF:

IP address Client-ID/ Lease expiration Type State

Interface

Hardware address/

User name

192.168.32.3 0130.b49e.491a.53 Mar 23 2018 06:42 PM Automatic Active

Loopback0

To verify the DHCP relay statistics for a wireless client, use the following command:

Device# show wireless dhcp relay statistics

```
DHCP Relay Statistics
_____
DHCP Server IP : 10.10.10.1
                  Count
Message
DHCPDISCOVER : 1
BOOTP FORWARD : 137
BOOTP REPLY
             : 0
               : 0
DHCPOFFER
DHCPREQUEST
DHCPACK
DHCPNAK
DHCPDECLINE
DHCPRELEASE
             : 0
DHCPINFORM
                : 82
{\tt Tx/Rx} Time :
LastTxTime : 18:42:18
LastRxTime : 00:00:00
Drop Counter :
TxDropCount : 0
```

To verify the DHCP packet punt statistics in CPP, use the following command:

Device# show platform hardware chassis active qfp feature wireless punt statistics

CPP Wireless Punt stats:

| App Tag | Packet Count |
|------------------------------------|--------------|
| | |
| CAPWAP PKT TYPE DOT11 PROBE REQ | 14442 |
| CAPWAP PKT TYPE DOT11 MGMT | 50 |
| CAPWAP PKT TYPE DOT11 IAPP | 9447 |
| CAPWAP PKT TYPE DOT11 RFID | 0 |
| CAPWAP PKT TYPE DOT11 RRM | 0 |
| CAPWAP PKT TYPE DOT11 DOT1X | 0 |
| CAPWAP PKT TYPE CAPWAP KEEPALIVE | 2191 |
| CAPWAP PKT TYPE MOBILITY KEEPALIVE | 0 |
| CAPWAP PKT TYPE CAPWAP CNTRL | 7034 |
| CAPWAP PKT TYPE CAPWAP DATA | 0 |
| CAPWAP PKT TYPE MOBILITY CNTRL | 0 |
| WLS SMD WEBAUTH | 0 |
| | • |
| SISF_PKT_TYPE_ARP | 5292 |
| SISF_PKT_TYPE_DHCP | 140 |
| SISF_PKT_TYPE_DHCP6 | 1213 |
| SISF PKT TYPE IPV6 ND | 350 |
| SISF PKT TYPE DATA GLEAN | 44 |
| SISF PKT TYPE DATA GLEAN V6 | 51 |
| SISF PKT TYPE DHCP RELAY | 122 |
| CAPWAP_PKT_TYPE_CAPWAP_RESERVED | 0 |

Verifying Internal DHCP Configuration