



Configuring Policy Profile Features

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Configuring AAA Override

SUMMARY STEPS

1. **configure terminal**
2. **wireless profile policy *profile-policy***
3. **aaa-override**
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	wireless profile policy <i>profile-policy</i> Example: Device(config)# wireless profile policy test-wgb	Configures WLAN policy profile and enters the wireless policy configuration mode.
Step 3	aaa-override Example: Device(config-wireless-policy)# aaa-override	Configures AAA policy override. Note If VLAN is not pushed from the RADIUS server, the VLAN Override feature can be disabled from the RADIUS server.
Step 4	end	Returns to privileged EXEC mode.

	Command or Action	Purpose
	Example: Device(config-wireless-policy)# end	Alternatively, you can also press Ctrl-Z to exit global configuration mode.

Configuring Override VLAN for Central Switching

SUMMARY STEPS

1. **configure terminal**
2. **vlan** *vlan-id*
3. **name** *vlan-name*
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	vlan <i>vlan-id</i> Example: Device(config)# vlan 20	Defines VLANs that can be pushed from the RADIUS server. Note The valid VLAN ID ranges from 1 to 4094.
Step 3	name <i>vlan-name</i> Example: Device(config-vlan)# name vlan_ascii	(Optional) Changes the default name of the VLAN.
Step 4	end Example: Device(config-vlan)# end	Returns to privileged EXEC mode. Alternatively, you can also press Ctrl-Z to exit global configuration mode.

Configuring Override VLAN for Local Switching

SUMMARY STEPS

1. **configure terminal**
2. **wireless profile flex** *flex_profile_name*
3. **vlan-name** *vlan_name*
4. **vlan-id** *vlan_id*
5. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	wireless profile flex <i>flex_profile_name</i> Example: Device(config)# wireless profile flex rr-xyz-flex-profile	Configures a Flex profile.
Step 3	vlan-name <i>vlan_name</i> Example: Device(config-wireless-flex-profile)# vlan-name vlan_123	Defines VLANs that can be pushed from the RADIUS server.
Step 4	vlan-id <i>vlan_id</i> Example: Device(config-wireless-flex-profile-vlan)# vlan-id 23	Configures VLAN ID. The valid VLAN ID ranges from 1 to 4096.
Step 5	end Example: Device(config-wireless-flex-profile-vlan)# end	Returns to privileged EXEC mode. Alternatively, you can also press Ctrl-Z to exit global configuration mode.

Verifying VLAN Override on Layer 3 Web Authentication

To display the VLAN override after L3 authentication, use the following command:

```
Device# show wireless client mac <mac> detail
[...]
Vlan Override after L3 Auth: True
```

To display the statistics about client, use the following command:

```
Device# show wireless stats client detail
[...]
Total L3 VLAN Override vlan change received      : 1
Total L3 VLAN Override disassociations sent      : 1
Total L3 VLAN Override re-associations received  : 1
Total L3 VLAN Override successful VLAN change    : 1
[...]
L3 VLAN Override connection timeout              : 0
```

Configuring DHCP for WLANS (CLI)

Configuring DHCP Scopes (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **ip dhcp pool** *pool-name*
3. **network** *network-name mask-address*
4. **dns-server** *hostname*
5. **end**

DETAILED STEPS

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

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

Before you begin

- 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.

SUMMARY STEPS

1. **configure terminal**
2. **interface loopback** *interface-number*
3. **ip address** *ip-address*
4. **exit**
5. **interface vlan** *vlan-id*
6. **ip address** *ip-address*
7. **ip helper-address** *ip-address*
8. **no mop enabled**
9. **no mop sysid**
10. **exit**
11. **ip dhcp excluded-address** *ip-address*
12. **ip dhcp excluded-address** *ip-address*
13. **ip dhcp pool** *pool-name*
14. **network** *network-name mask-address*
15. **default-router** *ip-address*
16. **exit**
17. **wireless profile policy** *profile-policy*
18. **central association**
19. **central dhcp**
20. **central switching**
21. **description** *policy-profile-name*
22. **vlan** *vlan-name*
23. **no shutdown**

DETAILED STEPS

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

	Command or Action	Purpose
Step 4	exit Example: Device(config-if)# exit	Exits interface configuration mode.
Step 5	interface vlan vlan-id Example: Device(config)# interface vlan 32	Configures the VLAN ID.
Step 6	ip address ip-address Example: Device(config-if)# ip address 192.168.32.100 255.255.255.0	Configures the IP address for the interface.
Step 7	ip helper-address ip-address Example: Device(config-if)# ip helper-address 10.10.10.1	Configures the destination address for UDP broadcasts. 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 Example: Device(config-if)# no mop enabled	Disables the Maintenance Operation Protocol (MOP) for an interface.
Step 9	no mop sysid Example: Device(config-if)# no mop sysid	Disables the task of sending MOP periodic system ID messages.
Step 10	exit Example: Device(config-if)# exit	Exits interface configuration mode.
Step 11	ip dhcp excluded-address ip-address Example: Device(config)# ip dhcp excluded-address 192.168.32.1	Specifies the IP address that the DHCP server should not assign to DHCP clients.
Step 12	ip dhcp excluded-address ip-address Example: Device(config)# ip dhcp excluded-address 192.168.32.100	Specifies the IP addresses that the DHCP server should not assign to DHCP clients.
Step 13	ip dhcp pool pool-name Example: Device(config)# ip dhcp pool pool-vlan32	Configures the DHCP pool address.

	Command or Action	Purpose
Step 14	network <i>network-name mask-address</i> Example: Device(dhcp-config)# network 192.168.32.0 255.255.255.0	Specifies the network number in dotted-decimal notation, along with the mask address.
Step 15	default-router <i>ip-address</i> Example: Device(dhcp-config)# default-router 192.168.32.1	Specifies the IP address of the default router for a DHCP client.
Step 16	exit Example: Device(dhcp-config)# exit	Exits DHCP configuration mode.
Step 17	wireless profile policy <i>profile-policy</i> Example: Device(config)# wireless profile policy default-policy-profile	Configures the WLAN policy profile and enters wireless policy configuration mode.
Step 18	central association Example: Device(config-wireless-policy)# central association	Configures central association for locally switched clients.
Step 19	central dhcp Example: Device(config-wireless-policy)# central dhcp	Configures the central DHCP for locally switched clients.
Step 20	central switching Example: Device(config-wireless-policy)# central switching	Configures WLAN for central switching.
Step 21	description <i>policy-profile-name</i> Example: Device(config-wireless-policy)# description "default policy profile"	Adds a description for the policy profile
Step 22	vlan <i>vlan-name</i> Example: Device(config-wireless-policy)# vlan 32	Assigns the profile policy to the VLAN.
Step 23	no shutdown Example: Device(config-wireless-policy)# no shutdown	Enables the wireless profile policy.

Configuring the Internal DHCP Server Under a Wireless Policy Profile

SUMMARY STEPS

1. **configure terminal**
2. **interface loopback** *interface-number*
3. **ip address** *ip-address*
4. **exit**
5. **interface vlan** *vlan-id*
6. **ip address** *ip-address*
7. **no mop enabled**
8. **no mop sysid**
9. **exit**
10. **ip dhcp excluded-address** *ip-address*
11. **ip dhcp pool** *pool-name*
12. **network** *network-name mask-address*
13. **default-router** *ip-address*
14. **exit**
15. **wireless profile policy** *profile-policy*
16. **central association**
17. **central switching**
18. **description** *policy-profile-name*
19. **ipv4 dhcp opt82**
20. **ipv4 dhcp opt82 ascii**
21. **ipv4 dhcp opt82 format** *vlan_id*
22. **ipv4 dhcp opt82 rid** *vlan_id*
23. **ipv4 dhcp server** *ip-address*
24. **vlan** *vlan-name*
25. **no shutdown**

DETAILED STEPS

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

	Command or Action	Purpose
Step 4	exit Example: Device(config-if)# exit	Exits interface configuration mode.
Step 5	interface vlan <i>vlan-id</i> Example: Device(config)# interface vlan 32	Configures the VLAN ID.
Step 6	ip address <i>ip-address</i> Example: Device(config-if)# ip address 192.168.32.100 255.255.255.0	Configures the IP address for the interface.
Step 7	no mop enabled Example: Device(config-if)# no mop enabled	Disables the Maintenance Operation Protocol (MOP) for an interface.
Step 8	no mop sysid Example: Device(config-if)# no mop sysid	Disables the task of sending MOP periodic system ID messages.
Step 9	exit Example: Device(config-if)# exit	Exits interface configuration mode.
Step 10	ip dhcp excluded-address <i>ip-address</i> Example: Device(config)# ip dhcp excluded-address 192.168.32.100	Specifies the IP address that the DHCP server should not assign to DHCP clients.
Step 11	ip dhcp pool <i>pool-name</i> Example: Device(config)# ip dhcp pool pool-vlan32	Configures the DHCP pool address.
Step 12	network <i>network-name mask-address</i> Example: Device(dhcp-config)# network 192.168.32.0 255.255.255.0	Specifies the network number in dotted-decimal notation along with the mask address.
Step 13	default-router <i>ip-address</i> Example: Device(dhcp-config)# default-router 192.168.32.1	Specifies the IP address of the default router for a DHCP client.
Step 14	exit Example:	Exits DHCP configuration mode.

	Command or Action	Purpose
	<code>Device(dhcp-config) # exit</code>	
Step 15	wireless profile policy <i>profile-policy</i> Example: <code>Device(config) # wireless profile policy</code> <code>default-policy-profile</code>	Configures a WLAN policy profile and enters wireless policy configuration mode.
Step 16	central association Example: <code>Device(config-wireless-policy) # central</code> <code>association</code>	Configures central association for locally switched clients.
Step 17	central switching Example: <code>Device(config-wireless-policy) # central switching</code>	Configures local switching.
Step 18	description <i>policy-profile-name</i> Example: <code>Device(config-wireless-policy) # description</code> <code>"default policy profile"</code>	Adds a description for the policy profile.
Step 19	ipv4 dhcp opt82 Example: <code>Device(config-wireless-policy) # ipv4 dhcp opt82</code>	Enables DHCP Option 82 for the wireless clients.
Step 20	ipv4 dhcp opt82 ascii Example: <code>Device(config-wireless-policy) # ipv4 dhcp opt82</code> <code>ascii</code>	Enables ASCII on DHCP Option 82.
Step 21	ipv4 dhcp opt82 format vlan_id Example: <code>Device(config-wireless-policy) # ipv4 dhcp opt82</code> <code>format vlan32</code>	Enables VLAN ID.
Step 22	ipv4 dhcp opt82 rid vlan_id Example: <code>Device(config-wireless-policy) # ipv4 dhcp opt82</code> <code>rid</code>	Supports the addition of Cisco 2-byte Remote ID (RID) for DHCP Option 82.
Step 23	ipv4 dhcp server ip-address Example: <code>Device(config-wireless-policy) # ipv4 dhcp server</code> <code>10.10.10.1</code>	Configures the WLAN's IPv4 DHCP server.
Step 24	vlan <i>vlan-name</i> Example:	Assigns the profile policy to the VLAN.

	Command or Action	Purpose
	<code>Device(config-wireless-policy)# vlan 32</code>	
Step 25	no shutdown Example: <code>Device(config-wireless-policy)# no shutdown</code>	Enables the wireless profile policy.

Configuring the Internal DHCP Server Globally (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **interface loopback** *interface-num*
3. **ip address** *ip-address*
4. **exit**
5. **interface vlan** *vlan-id*
6. **ip address** *ip-address*
7. **no mop enabled**
8. **no mop sysid**
9. **exit**
10. **ip dhcp-server** *ip-address*
11. **ip dhcp excluded-address** *ip-address*
12. **ip dhcp pool** *pool-name*
13. **network** *network-name mask-address*
14. **default-router** *ip-address*
15. **exit**
16. **wireless profile policy** *profile-policy*
17. **central association**
18. **central dhcp**
19. **central switching**
20. **description** *policy-profile-name*
21. **vlan** *vlan-name*
22. **no shutdown**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: <code>Device# configure terminal</code>	Enters global configuration mode.
Step 2	interface loopback <i>interface-num</i> Example: <code>Device(config)# interface Loopback0</code>	Creates a loopback interface and enters interface configuration mode.

	Command or Action	Purpose
Step 3	ip address <i>ip-address</i> Example: Device(config-if)# ip address 10.10.10.1 255.255.255.255	Configures the IP address for the interface.
Step 4	exit Example: Device(config-if)# exit	Exits interface configuration mode.
Step 5	interface vlan <i>vlan-id</i> Example: Device(config)# interface vlan 32	Configures the VLAN ID.
Step 6	ip address <i>ip-address</i> Example: Device(config-if)# ip address 192.168.32.100 255.255.255.0	Configures the IP address for the interface.
Step 7	no mop enabled Example: Device(config-if)# no mop enabled	Disables the Maintenance Operation Protocol (MOP) for an interface.
Step 8	no mop sysid Example: Device(config-if)# no mop sysid	Disables the task of sending the MOP periodic system ID messages.
Step 9	exit Example: Device(config-if)# exit	Exits the interface configuration mode.
Step 10	ip dhcp-server <i>ip-address</i> Example: Device(config)# ip dhcp-server 10.10.10.1	Specifies the target DHCP server parameters.
Step 11	ip dhcp excluded-address <i>ip-address</i> Example: Device(config)# ip dhcp excluded-address 192.168.32.100	Specifies the IP address that the DHCP server should not assign to DHCP clients.
Step 12	ip dhcp pool <i>pool-name</i> Example: Device(config)# ip dhcp pool pool-vlan32	Configures the DHCP pool address.
Step 13	network <i>network-name mask-address</i> Example:	Specifies the network number in dotted-decimal notation along with the mask address.

	Command or Action	Purpose
	Device(dhcp-config)# network 192.168.32.0 255.255.255.0	
Step 14	default-router <i>ip-address</i> Example: Device(dhcp-config)# default-router 192.168.32.1	Specifies the IP address of the default router for a DHCP client.
Step 15	exit Example: Device(dhcp-config)# exit	Exits DHCP configuration mode.
Step 16	wireless profile policy <i>profile-policy</i> Example: Device(config)# wireless profile policy default-policy-profile	Configures a WLAN policy profile and enters wireless policy configuration mode.
Step 17	central association Example: Device(config-wireless-policy)# central association	Configures central association for locally switched clients.
Step 18	central dhcp Example: Device(config-wireless-policy)# central dhcp	Configures central DHCP for locally switched clients.
Step 19	central switching Example: Device(config-wireless-policy)# central switching	Configures local switching.
Step 20	description <i>policy-profile-name</i> Example: Device(config-wireless-policy)# description "default policy profile"	Adds a description for the policy profile.
Step 21	vlan <i>vlan-name</i> Example: Device(config-wireless-policy)# vlan 32	Assigns the profile policy to the VLAN.
Step 22	no shutdown Example: Device(config-wireless-policy)# no shutdown	Enables the profile policy.

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 Interface	Client-ID/ Hardware address/ User name	Lease expiration	Type	State
192.168.32.3 Loopback0	0130.b49e.491a.53	Mar 23 2018 06:42 PM	Automatic	Active

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

Message	Count
DHCPDISCOVER	: 1
BOOTP FORWARD	: 137
BOOTP REPLY	: 0
DHCPOFFER	: 0
DHCPREQUEST	: 54
DHCPACK	: 0
DHCPNAK	: 0
DHCPDECLINE	: 0
DHCPRELEASE	: 0
DHCPINFORM	: 82

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

```

Configuring FlexConnect DHCP-Required (CLI)

Perform the procedure given below to configure FlexConnect DHCP-Required through the CLI:

SUMMARY STEPS

1. **configure terminal**
2. **wireless profile policy** *profile-policy*
3. **ipv4 dhcp required**
4. **no shutdown**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Device#configure terminal	Enters global configuration mode.
Step 2	wireless profile policy <i>profile-policy</i> Example: Device#wireless profile policy <i>rr-xyz-policy-1</i>	Configures WLAN policy profile and enters the wireless policy configuration mode.
Step 3	ipv4 dhcp required Example: Device(config-wireless-policy)#ipv4 dhcp required	Enables the FlexConnect DHCP-Required feature.
Step 4	no shutdown Example: Device(config-wireless-policy)#no shutdown	Saves the configuration.

Verifying FlexConnect DHCP-Required

- To verify the IP address learnt for a client on an IP DHCP-Required policy-enabled WLAN, use the **show wireless client summary** command:



Note

The controller or AP does not learn the IP address through other means such as ARP or data gleaning, when IPv4 DHCP-Required is enabled.

```
Device# show wireless client summary
```

```
Number of Clients: 1
```

MAC Address	AP Name	Type	ID	State	Protocol	Method
1cXX.bXXX.59XX	APXXXX.7XXX.4XXX	WLAN	3	IP Learn	11ac	Dot1x
Local						

- This example shows that the client IP is in the **Run** state, indicating that the client has received the IP address from DHCP:

```
Device# show wireless client summary
```

```
Number of Clients: 1
```

MAC Address	AP Name	Type	ID	State	Protocol
5XXX.37XX.c3XX	APXXXX.4XXX.4XXX	WLAN	3	Run	11n (5)
None	Local				

Configuring DHCP for WLANs (GUI)

Configuring DHCP Scopes (GUI)

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.

Step 5 In the **Network** field, enter the network served by this DHCP scope. This IP address is used by the management 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.

Step 10 From the **Lease** drop-down list, choose the lease type as either **User Defined** or **Never Expires**. If you choose 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 Check the **Enable DNS Proxy** check box to enable DNS proxy.

Step 13 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.

Step 14 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.

- Step 15** 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.
- Step 17** 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 the Internal DHCP Server Under Client VLAN SVI (GUI)

- 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 a Wireless Policy Profile (GUI)

- 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 Globally (GUI)

- 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 FlexConnect DHCP-Required (GUI)

Perform the steps given below to configure the FlexConnect DHCP-Required feature through the GUI:

- Step 1** Choose **Configuration > Tags & Profiles > Policy**.
 - Step 2** On the **Policy** window, click the name of the corresponding Policy Profile. The **Edit Policy Profile** window is displayed.
 - Step 3** Click the **Advanced** tab.
 - Step 4** In the **DHCP** section, check the **IPv4 DHCP Required** check box to enable the feature.
 - Step 5** Click **Update & Apply to Device**.
-