



IPv6 Support on Flex and Mesh

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IPv6 Support on Flex + Mesh Deployment

IPv6 is the backhaul transport of the Service Provider. The IPv6 support over flex + mesh feature is now supported on the Cisco Catalyst 9800 Series Wireless Controller . WLAN accepts IPv6 clients and forward the traffic.

Configuring IPv6 Support for Flex + Mesh

Follow the procedure given below to enable the IPv6 routing on the controller :

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	interface vlan <i>vlan-interface-number</i> Example: Device(config)#interface vlan 89	Creates an interface and enters the interface configuration mode.
Step 3	shutdown Example: Device(config-if)#shutdown	Disables the interface configuration.
Step 4	ipv6 enable Example: Device(config-if)#ipv6 enable	Optional. Enables IPv6 on the interface.

	Command or Action	Purpose
Step 5	ipv6 address X:X:X:X::X/<0-128> Example: Device(config-if)#ipv6 address 1:1:1:1::1/64	Configures IPv6 address on the interface using the IPv6 prefix option.
Step 6	no shutdown Example: Device(config-if)#no shutdown	Enables the IPv6 address.
Step 7	no shutdown Example: Device(config-if)#no shutdown	Enables the PIM dense-mode operation.
Step 8	end Example: Device(config-if)#end	Returns to privileged EXEC mode.
Step 9	show ipv6 interface brief Example: Device#show ipv6 interface brief	Verifies your entries.
Step 10	ping ipv6 destination-address or hostname Example: Device#ping ipv6 1:1:1:1::10	Checks the gateway connectivity.

Configuring Preferred IP Address as IPv6 (GUI)

Procedure

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- Step 1** Choose Configuration > Tags & Profiles > AP Join.
 - Step 2** Click the AP Join Profile Name. The **Edit AP Join Profile** window is displayed.
 - Step 3** Choose CAPWAP > Advanced.
 - Step 4** From the Preferred Mode drop-down list, select **IPV6**.
 - Step 5** Click **Update & Apply to Device**.
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Configuring Preferred IP Address as IPv6

Procedure

	Command or Action	Purpose
Step 1	Configure Terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	ap profile default-ap-profile Example: Device(config)# ap profile default-ap-profile	Enters AP profile configuration mode.
Step 3	preferred-mode ipv6 Example: Device(config-ap-profile)# preferred-mode ipv6	Uses IPv6 to join the controller .
Step 4	end Example: Device(config-ap-profile)# end	Exits the configuration mode and returns to privileged EXEC mode.

Verifying IPv6 on Flex+Mesh

To verify the IPv6 configuration on the controller , use the following **show** command:

```
Device#show ip interface brief
Interface          IP-Address      OK? Method Status      Protocol
GigabitEthernet2   unassigned      YES unset up        up
GigabitEthernet0   unassigned      YES NVRAM administratively down down
Capwap1           unassigned      YES unset up        up
Capwap2           unassigned      YES unset up        up
Vlan1             unassigned      YES NVRAM administratively down down
Vlan89            9.10.89.90     YES NVRAM up         up
Ewlc-9.10.89.90#show running-config interface vlan 89
Building configuration...

Current configuration : 120 bytes
!
interface Vlan89
  ip address 9.10.89.90 255.255.255.0
  ip helper-address 9.1.0.100
  no mop enabled
  no mop sysid
end
```

