Configuring Wi-Fi Direct Client Policy

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information Table at the end of this document.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to http://www.cisco.com/go/cfn. An account on Cisco.com is not required.

Restrictions for the Wi-Fi Direct Client Policy

Wi-Fi Direct Client Policy is applicable to WLANs that have APs in local mode only.

Information About the Wi-Fi Direct Client Policy

Devices that are Wi-Fi Direct capable can connect directly to each other quickly and conveniently to do tasks such as printing, synchronization, and sharing of data. Wi-Fi Direct devices may associate with multiple peer-to-peer (P2P) devices and with infrastructure wireless LANs (WLANs) concurrently. You can use the controller to configure the Wi-Fi Direct Client Policy, on a per WLAN basis, where you can allow or disallow association of Wi-Fi devices with infrastructure WLANs, or disable Wi-Fi Direct Client Policy altogether for WLANs.

Related Topics

Configuring the Wi-Fi Direct Client Policy (CLI), on page 2
Disabling Wi-Fi Direct Client Policy (CLI), on page 3
Monitoring Wi-Fi Direct Client Policy (CLI), on page 4

How to Configure Wi-Fi Direct Client Policy

Configuring the Wi-Fi Direct Client Policy (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **wlan** *profile-name*
3. **wifidirect policy** {**permit** | **deny** }
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure terminal** **Example:** `Switch# configure terminal`	Enters global configuration mode.
Step 2	**wlan** *profile-name* **Example:** `Switch# wlan test4`	Enters the WLAN configuration submode. The *profile-name* is the profile name of the configured WLAN.

Step 3	**wifidirect policy** {**permit**	**deny** }
		
		Example:
		`Switch(config-wlan)# wifidirect policy permit`
			Configures the Wi-Fi Direct client policy on the WLAN using one of the following:
			• **permit—**Enables Wi-Fi Direct clients to associate with the WLAN.
			• **deny—**When the Wi-Fi Direct policy is configured as "deny," the switch permits or denies Wi-Fi Direct devices based on the device capabilities. A Wi-Fi Direct device reports these capabilities in its association request to the switch and these are based on the Wi-Fi capabilities of the device. These include:
			  • Concurrent operation
			  • Cross connection
			
			Note The command **no wifidirect policy** ignores the client's Wi-Fi direct status. Additionally, the access point also does not advertise any beacons and probes. Effectively, the **no** form of the command disables the Wi-Fi direct feature on the WLAN.

	Command or Action	Purpose
		If the Wi-Fi device supports either concurrent operations or cross connections or both, the client association is denied. The client can associate if the device does not support concurrent operations and cross connections.
Step 4	**end** **Example:** `Switch(config-wlan)# end`	Returns to privileged EXEC mode. Alternatively, you can also press **Ctrl-z** to exit global configuration mode.

Related Topics

Information About the Wi-Fi Direct Client Policy, on page 1
Monitoring Wi-Fi Direct Client Policy (CLI), on page 4

Disabling Wi-Fi Direct Client Policy (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **wlan** *profile-name*
3. **no wifidirect policy**
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure terminal** **Example:** `Switch# configure terminal`	Enters global configuration mode.
Step 2	**wlan** *profile-name* **Example:** `Switch# wlan test4`	Enters the WLAN configuration submode. The *profile-name* is the profile name of the configured WLAN.
Step 3	**no wifidirect policy** **Example:** `Switch(config)# no wifidirect policy`	Ignores the Wi-Fi Direct status of clients thereby allowing Wi-Fi Direct clients to associate.

	Command or Action	Purpose
Step 4	**end** **Example:** `Switch(config-wlan)# end`	Returns to privileged EXEC mode. Alternatively, you can also press **Ctrl-z** to exit global configuration mode.

Related Topics

Information About the Wi-Fi Direct Client Policy, on page 1
Monitoring Wi-Fi Direct Client Policy (CLI), on page 4

Monitoring Wi-Fi Direct Client Policy (CLI)

The following commands can be used to monitor Wi-Fi Direct Client Policy:

Command	Description
show wireless client wifidirect stats	Displays the total number of clients associated and the number of association requests rejected if the Wi-Fi Direct Client Policy is enabled.
show wlan summary	Displays status of the Wi-Fi Direct on the WLAN.
show wireless cli mac-address *mac-address*	Displays the detail information of a client.

Related Topics

Configuring the Wi-Fi Direct Client Policy (CLI), on page 2
Disabling Wi-Fi Direct Client Policy (CLI), on page 3
Information About the Wi-Fi Direct Client Policy, on page 1

Additional References for Wi-Fi Direct Client Policy

Related Documents

Related Topic	Document Title
WLAN Command reference	*WLAN Command Reference, Cisco IOS XE Release 3SE (Catalyst 3850 Switches)*

Error Message Decoder

Description	Link
To help you research and resolve system error messages in this release, use the Error Message Decoder tool.	https://www.cisco.com/cgi-bin/Support/Errordecoder/index.cgi

MIBs

MIB	MIBs Link
All Supported MIBs for this release.	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies. To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	http://www.cisco.com/support

Feature Information about Wi-Fi Direct Client Policy

Feature Name	Release	Feature Information
Wi-Fi Direct Feature	Cisco IOS XE 3.3SE	This feature was introduced.