Setting Client Count Per WLAN

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 Setting Client Count for WLANs

- When a WLAN has reached the limit on the maximum number of clients connected to it or an AP radio and a new client tries to join the WLAN, the client cannot connect to the WLAN until an existing client gets disconnected.

- Roaming clients are considered as new clients. The new client can connect to a WLAN, which has reached the maximum limit on the number of connected clients, only when an existing client gets disconnected.

Note   For more information about the number of clients that are supported, see the product data sheet of your device.

Related Topics

Configuring Client Count per WLAN (CLI), on page 2

Information About Setting the Client Count per WLAN

You can set a limit to the number of clients that can connect to a WLAN, which is useful in scenarios where you have a limited number of clients that can connect to a device. For example, consider a scenario where the device can serve up to 256 clients on a WLAN and these clients can be shared between enterprise users (employees) and guest users. You can set a limit on the number of guest clients that can access a given WLAN. The number of clients that you can configure for each WLAN depends on the platform that you are using.

Related Topics

How to Configure Client Count Per WLAN

Configuring Client Count per WLAN (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **wlan** *profile-name*
3. **client association limit** *limit*
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 2	**wlan** *profile-name* **Example:** `Device# wlan test4`	Enters the WLAN configuration submode. The *profile-name* is the profile name of the configured WLAN.
Step 3	**client association limit** *limit* **Example:** `Device(config-wlan)# client association limit 2000`	Configures the maximum number of client associations per WLAN. The range is 0 to 2000. A default value is 0 (no limit).

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

Related Topics

Configuring Client Count Per AP Per WLAN (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **wlan** *profile-name*
3. **client association limit ap** *ap-limit*
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure terminal** **Example:** Device# **configure terminal**	Enters global configuration mode.
Step 2	**wlan** *profile-name* **Example:** Device# **wlan test4**	Enters the WLAN configuration submode. The *profile-name* is the profile name of the configured WLAN.
Step 3	**client association limit ap** *ap-limit* **Example:** Device(config-wlan)# **client association limit ap 250**	Configures the maximum number of clients per AP per WLAN. The range is 1 - 400.
Step 4	**end** **Example:** Device(wlan-config)# **end**	Returns to privileded EXEC mode. Alternatively, you can also press **Ctrl-z** to exit global configuration mode.

Related Topics

Configuring Client Count per AP Radio per WLAN (CLI)

SUMMARY STEPS

1. **configure terminal**
2. **wlan** *profile-name*
3. **client association limit radio** *max-client-connections*
4. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 2	**wlan** *profile-name* **Example:** `Device# wlan test4`	Enters the WLAN configuration submode. The *profile-name* is the profile name of the configured WLAN.
Step 3	**client association limit radio** *max-client-connections* **Example:** `Device(config-wlan)# client association limit radio 180`	Configures the maximum number of client connections per AP radio per WLAN. The range is 0 - 200 for the a, b, and g radios.
Step 4	**end** **Example:** `Device(config-wlan)# end`	Returns to privileged EXEC mode. Alternatively, you can also press **Ctrl-z** to exit global configuration mode.

Related Topics

Information About Setting the Client Count per WLAN, on page 2

Restrictions for Setting Client Count for WLANs, on page 1

Monitoring Client Connections (CLI), on page 4

Monitoring Client Connections (CLI)

The following commands can be used to monitor client connections on the device:

Command	Description
show wlan name *wlan-name*	Displays the WLAN properties. Here is an example: ```. . . . Max Associated Clients per WLAN :0 Max Associated Clients per AP per WLAN :0 Max Associated Clients per AP Radio per WLAN :0 . . . . . .```
show wlan id *wlan-id*	Displays the WLAN properties. here is an example: ```. . . . Max Associated Clients per WLAN :0 Max Associated Clients per AP per WLAN :0 Max Associated Clients per AP Radio per WLAN :0 . . . . . .```

Related Topics

Configuring Client Count per WLAN (CLI), on page 2

Configuring Client Count Per AP Per WLAN (CLI), on page 3

Configuring Client Count per AP Radio per WLAN (CLI), on page 4

Information About Setting the Client Count per WLAN, on page 2

Additional References for Client Connections

Related Documents

Related Topic	Document Title
WLAN Command References	*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 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 Client Connections Per WLAN

This table lists the features in this module and provides links to specific configuration information:

Feature Name	Release	Feature Information
Client Connections Per WLAN, Per AP, and per AP Radio	Cisco IOS XE 3.3SE	This feature was introduced.