



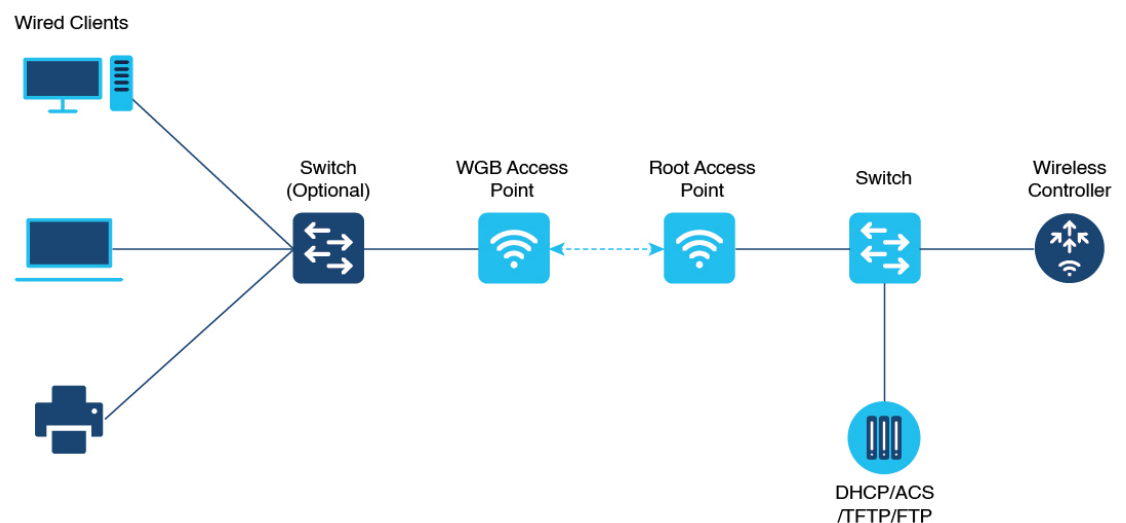
Workgroup Bridges

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Cisco Workgroup Bridges

A workgroup bridge (WGB) is an Access Point (AP) mode to provide wireless connectivity to wired clients that are connected to the Ethernet port of the WGB AP. A WGB connects a wired network over a single wireless segment by learning the MAC addresses of its wired clients on the Ethernet interface and reporting them to the WLC through infrastructure AP using Internet Access Point Protocol (IAPP) messaging. The WGB establishes a single wireless connection to the root AP, which in turn, treats the WGB as a wireless client.

Figure 1: Example of a WGB



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The following features are supported for use with a WGB:

Table 1: WGB Feature Matrix

Feature	Cisco Wave 1 APs	Cisco Wave 2
802.11r	Supported	Supported
QOS	Supported	Supported
UWGB mode	Supported	Supported on Wave 2 APs
IGMP Snooping or Multicast	Supported	Supported
802.11w	Supported	Supported
PI support (without SNMP)	Supported	Not supported
IPv6	Supported	Supported
VLAN	Supported	Supported
802.11i (WPAv2)	Supported	Supported
Broadcast tagging/replicate	Supported	Supported
Unified VLAN client	Implicitly supported (No CLI required)	Supported
WGB client	Supported	Supported
802.1x – PEAP, EAP-FAST, EAP-TLS	Supported	Supported
NTP	Supported	Supported
Wired client support on all LAN ports	Supported in Wired-0 and Wired-1 interfaces	Supported in all Wired-0, 1 and LAN ports 1, 2, and 3

The following table shows the supported and unsupported authentication and switching modes for Cisco APs when connecting to a WGB.

Table 2: Supported Access Points and Requirements

Access Points	Requirements
Cisco Aironet 2700, 3700, and 1572 Series	Requires autonomous image.
Cisco Aironet 2800, 3800, 4800, 1562, and Cisco Catalyst 9105, 9115, IW6300 and ESW6300 Series	CAPWAP image starting from Cisco AireOS 8.8 release.

Table 3: WGB Support on APs

WGB WLAN Support	Cisco Wave 2 APs	Cisco Catalyst 9100 Series APs
Central Authentication	Supported	Supported

WGB WLAN Support	Cisco Wave 2 APs	Cisco Catalyst 9100 Series APs
Central Switching	Supported	Supported
Local Authentication	Not Supported	Not Supported
Local Switching	Supported	Supported

- MAC filtering is not supported for wired clients.
- Idle timeout is not supported for both WGB and wired clients.
- Session timeout is not applicable for wired clients.
- Web authentication is not supported.
- WGB supports only up to 20 clients.
- If you want to use a chain of certificates, copy all the CA certificates to a file and install it under a trust point on the WGB, else server certificate validation may fail.
- Wired clients connected to the WGB are not authenticated for security. Instead, the WGB is authenticated against the access point to which it associates. Therefore, we recommend that you physically secure the wired side of the WGB.
- Wired clients connected to a WGB inherit the WGB's QoS and AAA override attributes.
- To enable the WGB to communicate with the root AP, create a WLAN and make sure that Aironet IE is enabled under the Advanced settings.

Configuring Workgroup Bridge on a WLAN

Follow the procedure given below to configure a WGB on a WLAN:

For WGB to join a wireless network there are specific settings on the WLAN and on the related policy profile.



Note For the configuration given below, it is assumed that the WLAN security is already configured.

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	wlan profile-name Example: Device(config)# wlan WGB_Test	Enters WLAN configuration submenu. The <i>profile-name</i> is the profile name of the configured WLAN.

	Command or Action	Purpose
Step 3	ccx aironet-iesupport Example: Device(config-wlan)# ccx aironet-iesupport	Configures the Cisco Client Extensions option and sets the support of Aironet IE on the WLAN.
Step 4	exit Example: Device(config-wlan)# exit	Exits the WLAN configuration submode.
Step 5	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 6	description <i>description</i> Example: Device(config-wireless-policy)# description "test-wgb"	Adds a description for the policy profile.
Step 7	vlan <i>vlan-no</i> Example: Device(config-wireless-policy)# vlan 48	Assigns the profile policy to the VLAN.
Step 8	wgb vlan Example: Device(config-wireless-policy)# wgb vlan	Configures WGB VLAN client support.
Step 9	wgb broadcast-tagging Example: Device(config-wireless-policy)# wgb broadcast-tagging	Configures WGB broadcast tagging on a WLAN.
Step 10	no shutdown Example: Device(config-wireless-policy)# no shutdown	Restarts the policy profile.
Step 11	exit Example: Device(config-wireless-policy)# exit	Exits the wireless policy configuration mode.
Step 12	wireless tag policy <i>policy-tag</i> Example: Device(config)# wireless tag policy WGB_Policy	Configures policy tag and enters policy tag configuration mode.

	Command or Action	Purpose
Step 13	wlan <i>profile-name</i> policy <i>profile-policy</i> Example: Device(config-policy-tag)# wlan WGB_Test policy test-wgb	Maps a policy profile to a WLAN profile.
Step 14	end Example: Device(config-policy-tag)# end	Exits policy tag configuration mode, and returns to privileged EXEC mode.

Verifying the Status of a Workgroup Bridge on the Controller

Use the following commands to verify the status of a WGB.

To display the wireless-specific configuration of active clients, use the following command:

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

To display the WGBs on your network, use the following command:

```
Device# show wireless wgb summary
```

To display the details of wired clients that are connected to a particular WGB, use the following command:

```
Device# show wireless wgb mac-address 00:0d:ed:dd:25:82 detail
```

Configuring Access Points as Workgroup Bridge

Turning Cisco Aironet 2700/3700/1572 Series AP into Autonomous Mode

Before you begin

Download the autonomous image for the specific access point from software.cisco.com and place it on a TFTP server.

Procedure

	Command or Action	Purpose
Step 1	debug capwap console cli Example: Device# debug capwap console cli	Enables the console CLI.
Step 2	archive download-sw force-reload overwrite tftp:ipaddress filepath filename Example:	Downloads the autonomous image to the access point.

	Command or Action	Purpose
	<pre>Device(config)# archive download-sw force-reload overwrite tftp://10.10.10.1/tftp/c1800.tar</pre>	

Configuring Cisco Wave 2 APs in Workgroup Bridge or CAPWAP AP Mode (CLI)

Procedure

	Command or Action	Purpose
Step 1	enable Example: <pre>Device# enable</pre>	Enters in to the privileged mode of the AP.
Step 2	ap-type workgroup-bridge Example: <pre>Device# ap-type workgroup-bridge</pre>	Moves the AP in to the Workgroup Bridge mode.
Step 3	configure ap address ipv4 dhcp or configure ap address ipv4 static <i>ip-address netmask gateway-ipaddress</i> Example: DHCP IP Address <pre>Device# configure ap address ipv4 dhcp</pre> Static IP Address <pre>Device# configure ap address ipv4 static 10.10.10.2 255.255.255.234 192.168.4.1</pre>	Configures DHCP or Static IP address.
Step 4	configure ap management add username username password password secret secret Example: <pre>Device# configure ap management add username xyz-user password ***** secret cisco</pre>	Configures an username for the AP management.
Step 5	configure ap hostname <i>host-name</i> Example: <pre>Device# configure ap hostname xyz-host</pre>	Configures the AP hostname.

Configure an SSID Profile for Cisco Wave 2 APs (CLI)

This procedure is an AP procedure. The CLIs listed in the procedure given below work only on the AP console and not on the controller.

Procedure

	Command or Action	Purpose
Step 1	<p>configure ssid-profile <i>ssid-profile-name</i> ssid <i>radio-serv-name</i> authentication {open psk <i>preshared-key</i> key-management {dot11r wpa2 dot11w {optional required } } eap <i>profile eap-profile-name</i> key-management {dot11r wpa2 dot11w {optional required } }</p> <p>Example:</p> <p>SSID profile with open authentication.</p> <pre>Device# configure ssid-profile test WRT s1 authentication open</pre> <p>SSID profile with PSK authentication.</p> <pre>Device# configure ssid-profile test WRT s1 authentication psk 1234 key-management dot11r optional</pre> <p>SSID profile with EAP authentication.</p> <pre>Device# configure ssid-profile test WRT s1 authentication eap profile test2 key-management dot11r optional</pre>	Choose an authentication protocol (Open, PSK, or EAP) for the SSID profile.
Step 2	<p>configure dot11radio <i>radio-interface</i> mode wgb ssid-profile <i>profile-name</i></p> <p>Example:</p> <pre>Device# configure dot11radio r1 mode wgb ssid-profile doc-test</pre>	Attaches an SSID profile to a radio interface.
Step 3	<p>configure ssid-profile <i>profile-name</i> delete</p> <p>Example:</p> <pre>Device# configure ssid-profile doc-test delete</pre>	(Optional) Deletes an SSID profile.
Step 4	<p>show wgb ssid</p> <p>Example:</p> <pre>Device# show wgb ssid</pre>	(Optional) Displays summary of configured and connected SSIDs.
Step 5	<p>show wgb packet statistics</p> <p>Example:</p> <pre>Device# show wgb packet statistics</pre>	(Optional) Displays management, control, and data packet statistics.

Configuring a Dot1X Credential (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure dot1x credential <i>profile-name</i> username <i>name</i> password <i>password</i> Example: Device# configure dot1x credential test1 username XYZ password *****	Configures a dot1x credential.
Step 2	configure dot1x credential <i>profile-name</i> delete Example: Device# configure dot1x credential test1 delete	Removes a dot1x profile.
Step 3	clear wgb client {all single <i>mac-addr</i> } Example: Device# clear wgb client single xxxx.xxxx.xxxx.xxxx	Deauthenticates a WGB client.

Configuring an EAP Profile (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure eap-profile <i>profile-name</i> method {fast leap peap tls} Example: Device# configure eap-profile test-eap method fast	Configures an EAP profile.
Step 2	configure eap-profile <i>profile-name</i> trustpoint default or configure eap-profile <i>profile-name</i> trustpoint <i>name</i> <i>trustpoint-name</i> Example: EAP Profile to Trustpoint with MIC Certificate. Device# configure eap-profile test-eap trustpoint default EAP Profile to Trustpoint with CA Certificate. Device# configure eap-profile test-eap trustpoint cisco	Configures an EAP profile with a trustpoint.
Step 3	configure eap-profile <i>profile-name</i> trustpoint {default name <i>trustpoint-name</i> }	Attaches the CA trustpoint.

	Command or Action	Purpose
	Example: <pre>Device# configure eap-profile test-eap trustpoint default</pre>	Note With the default profile, WGB uses the internal MIC certificate for authentication.
Step 4	configure eap-profile <i>profile-name</i> dot1x-credential <i>profile-name</i> Example: <pre>Device# configure eap-profile test-eap dot1x-credential test-profile</pre>	Configures the 802.1X credential profile.
Step 5	configure eap-profile <i>profile-name</i> delete Example: <pre>Device# configure eap-profile test-eap delete</pre>	(Optional) Deletes an EAP profile.
Step 6	show wgb eap dot1x credential profile Example: <pre>Device# show wgb eap dot1x credential profile</pre>	(Optional) Displays the WGB EAP dot1x profile summary.
Step 7	show wgb eap profile Example: <pre>Device# show wgb eap profile</pre>	(Optional) Displays the EAP profile summary.
Step 8	show wgb eap profile all Example: <pre>Device# show wgb eap profile all</pre>	(Optional) Displays the EAP and dot1x profiles.

Configuring Manual-Enrollment of a Trustpoint for Workgroup Bridge (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure crypto pki trustpoint <i>ca-server-name</i> enrollment terminal Example: <pre>Device# configure crypto pki trustpoint ca-server-US enrollment terminal</pre>	Configures a trustpoint in WGB.
Step 2	configure crypto pki trustpoint <i>ca-server-name</i> authenticate Example:	Authenticates a trustpoint manually. Enter the base 64 encoded CA certificate and end the certificate by entering quit in a new line.

	Command or Action	Purpose
	Device# configure crypto pki trustpoint ca-server-US authenticate	
Step 3	configure crypto pki trustpoint <i>ca-server-name key-size key-length</i> Example: Device# configure crypto pki trustpoint ca-server-US key-size 60	Configures a private key size.
Step 4	configure crypto pki trustpoint <i>ca-server-name subject-name name</i> <i>[2ltr-country-code state-name locality</i> <i> org-name org-unit email]</i> Example: Device# configure crypto pki trustpoint ca-server-US subject-name test US CA abc cisco AP test@cisco.com	Configures the subject name.
Step 5	configure crypto pki trustpoint <i>ca-server-name enrol</i> Example: Device# configure crypto pki trustpoint ca-server-US enroll	Generates a private key and Certificate Signing Request (CSR). Afterwards, create the digitally signed certificate using the CSR output in the CA server.
Step 6	configure crypto pki trustpoint <i>ca-server-name import certificate</i> Example: Device# configure crypto pki trustpoint ca-server-US import certificate	Import the signed certificate in WGB. Enter the base 64 encoded CA certificate and end the certificate by using quit command in a new line.
Step 7	configure crypto pki trustpoint <i>ca-server-name delete</i> Example: Device# configure crypto pki trustpoint ca-server-US delete	(Optional) Delete a trustpoint.
Step 8	show crypto pki trustpoint Example: Device# show crypto pki trustpoint	(Optional) Displays the trustpoint summary.
Step 9	show crypto pki trustpoint <i>trustpoint-name</i> certificate Example:	(Optional) Displays the content of the certificates that are created for a trustpoint.

	Command or Action	Purpose
	Device# show crypto pki trustpoint ca-server-US certificate	

Configuring Auto-Enrollment of a Trustpoint for Workgroup Bridge (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure crypto pki trustpoint <i>ca-server-name enrollment url ca-server-url</i> Example: Device# configure crypto pki trustpoint ca-server-US enrollment url https://cisco/certsrv	Enrolls a trustpoint in WGB using the server URL.
Step 2	configure crypto pki trustpoint <i>ca-server-name authenticate</i> Example: Device# configure crypto pki trustpoint ca-server-US authenticate	Authenticates a trustpoint by fetching the CA certificate from CA server automatically.
Step 3	configure crypto pki trustpoint <i>ca-server-name key-size key-length</i> Example: Device# configure crypto pki trustpoint ca-server-US key-size 60	Configures a private key size.
Step 4	configure crypto pki trustpoint <i>ca-server-name subject-name name</i> <i>[2ltr-country-code state-name locality</i> <i> org-name org-unit email]</i> Example: Device# configure crypto pki trustpoint ca-server-US subject-name test US CA abc cisco AP test@cisco.com	Configures the subject name.
Step 5	configure crypto pki trustpoint <i>ca-server-name enrol l</i> Example: Device# configure crypto pki trustpoint ca-server-US enroll	Enrolls the trustpoint. Request the digitally signed certificate from the CA server.

	Command or Action	Purpose
Step 6	configure crypto pki trustpoint <i>ca-server-name</i> auto-enroll enable <i>renew-percentage</i> Example: <pre>Device# configure crypto pki trustpoint ca-server-US auto-enroll enable 10</pre>	Enables auto-enroll of the trustpoint. You can disable auto-enrolling by using the disable option in the command.
Step 7	configure crypto pki trustpoint <i>trustpoint-name</i> delete Example: <pre>Device# configure crypto pki trustpoint ca-server-US delete</pre>	(Optional) Deletes a trustpoint.
Step 8	show crypto pki trustpoint Example: <pre>Device# show crypto pki trustpoint</pre>	(Optional) Displays the trustpoint summary.
Step 9	show crypto pki trustpoint <i>trustpoint-name</i> certificate Example: <pre>Device# show crypto pki trustpoint ca-server-US certificate</pre>	(Optional) Displays the content of the certificates that are created for a trustpoint.
Step 10	show crypto pki timers Example: <pre>Device# show crypto pki timers</pre>	(Optional) Displays the PKI timer information.

Configuring Manual Certificate Enrolment Using TFTP Server (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure crypto pki trustpoint <i>ca-server-name</i> enrollment tftp <i>addr/file-name</i> Example: <pre>Device# configure crypto pki trustpoint ca-server-US enrollment tftp://10.8.0.6/all_cert.txt</pre>	Specifies the enrolment method to retrieve the CA certificate and client certificate for a trustpoint in WGB.
Step 2	configure crypto pki trustpoint <i>ca-server-name</i> authenticate Example:	Retrieves the CA certificate and authenticates it from the specified TFTP server. If the file specification is included, the wgb will append the extension “.ca” to the specified filename.

	Command or Action	Purpose
	Device# configure crypto pki trustpoint ca-server-US authenticate	
Step 3	configure crypto pki trustpoint <i>ca-server-name key-size key-length</i> Example: Device# configure crypto pki trustpoint ca-server-US key-size 60	Configures a private key size.
Step 4	configure crypto pki trustpoint <i>ca-server-name subject-name name</i> <i>[2ltr-country-code state-name locality</i> <i> org-name org-unit email]</i> Example: Device# configure crypto pki trustpoint ca-server-US subject-name test US CA abc cisco AP test@cisco.com	Configures the subject name.
Step 5	configure crypto pki trustpoint <i>ca-server-name enrol</i> Example: Device# configure crypto pki trustpoint ca-server-US enroll	Generate a private key and Certificate Signing Request (CSR) and writes the request out to the TFTP server. The filename to be written is appended with the extension “.req”.
Step 6	configure crypto pki trustpoint <i>ca-server-name import certificate</i> Example: Device# configure crypto pki trustpoint ca-server-US import certificate	Import the signed certificate in WGB using TFTP at the console terminal, which retrieves the granted certificate. The WGB will attempt to retrieve the granted certificate using TFTP using the same filename and the file name append with “.crt” extension.
Step 7	show crypto pki trustpoint Example: Device# show crypto pki trustpoint	(Optional) Displays the trustpoint summary.
Step 8	show crypto pki trustpoint <i>trustpoint-name certificate</i> Example: Device# show crypto pki trustpoint ca-server-US certificate	(Optional) Displays the content of the certificates that are created for a trustpoint.

Importing the PKCS12 Format Certificates from the TFTP Server (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure crypto pki trustpoint <i>ca-server-name</i> import pkcs12 tftp <i>addr/file-name</i> password <i>pwd</i> Example: <pre>Device# configure crypto pki trustpoint ca-server-US enrollment tftp://10.8.0.6/all_cert.txt password *****</pre>	Imports PKCS12 format certificate from the TFTP server.
Step 2	show crypto pki trustpoint Example: <pre>Device# show crypto pki trustpoint</pre>	(Optional) Displays the trustpoint summary.
Step 3	show crypto pki trustpoint <i>trustpoint-name</i> certificate Example: <pre>Device# show crypto pki trustpoint ca-server-US certificate</pre>	(Optional) Displays the content of the certificates that are created for a trustpoint.

Configuring Radio Interface for Workgroup Bridges (CLI)

From the available two radio interfaces, before configuring WGB or UWGB mode on one radio interface, configure the other radio interface to root AP mode.

Procedure

	Command or Action	Purpose
Step 1	configure dot11radio <i>radio-int</i> mode root-ap Example: <pre>Device# configure dot11Radio 0/3/0 mode root-ap</pre>	Maps a radio interface as root AP. Note When an active SSID or EAP profile is modified, you need to reassociate the profile to the radio interface for the updated profile to be active.
Step 2	configure dot11Radio <i><0 1></i> beacon-period <i>beacon-interval</i> Example: <pre>Device# configure dot11radio 1 beacon-period 120</pre>	Configures the periodic beacon interval in milli-seconds. The value range is between 2 and 2000 milli-seconds.

	Command or Action	Purpose
Step 3	configure dot11Radio radio-int mode wgb ssid-profile ssid-profile-name Example: <pre>Device# configure dot11Radio 0/3/0 mode wgb ssid-profile bgl18</pre>	Maps a radio interface to a WGB SSID profile.
Step 4	configure dot11Radio radio-int mode uwgb mac-addr ssid-profile ssid-profile-name Example: <pre>Device# configure dot11Radio 0/3/0 mode uwgb 0042.5AB6.0EF0 ssid-profile bgl18</pre>	Maps a radio interface to a WGB SSID profile.
Step 5	configure dot11Radio radio-int {enable disable} Example: <pre>Device# configure dot11Radio 0/3/0 mode enable</pre>	Configures a radio interface. Note After configuring the uplink to the SSID profile, we recommend that you disable and enable the radio for the changes to be active.
Step 6	configure dot11Radio radio-int antenna {a-antenna ab-antenna abc-antenna abcd-antenna} Example: <pre>Device# configure dot11Radio 0/3/0 antenna a-antenna</pre>	Configures a radio antenna.
Step 7	configure dot11Radio radio-int encryption mode ciphers aes-ccm { Example: <pre>Device# configure dot11Radio radio-int encryption mode ciphers aes-ccm</pre>	Configures the radio interface.
Step 8	configure wgb mobile rate {basic 6 9 18 24 36 48 54 mcs mcs-rate} Example: <pre>Device# configure wgb mobile rate basic 6 9 18 24 36 48 54</pre>	Configures the device channel rate.
Step 9	configure wgb mobile period secondsthres-signal Example: <pre>Device# configure wgb mobile period 30 -50</pre>	Configure the threshold duration and signal strength to trigger scanning.
Step 10	configure wgb mobile station interface dot11Radio radio-int scan channel-number add Example:	Configures the static roaming channel.

	Command or Action	Purpose
	Device# configure wgb mobile station interface dot11Radio 0/3/0 scan 2 add	
Step 11	configure wgb mobile station interface dot11Radio radio-int scan channel-number delete Example: Device# configure wgb mobile station interface dot11Radio 0/3/0 scan 2 delete	(Optional) Delete the mobile channel.
Step 12	configure wgb mobile station interface dot11Radio radio-int scan disable Example: Device# configure wgb mobile station interface dot11Radio 0/3/0 scan disable	(Optional) Disable the mobile channel.
Step 13	configure wgb beacon miss-count value Example: Device# configure wgb beacon miss-count 12	(Optional) Configure the beacon miss-count. By default, this is set to disabled. Note When you set the beacon miss-count value to 10 or lower, then the beacon miss-count gets disabled. Set the value to 11 or higher to enable this function.
Step 14	show wgb wifi wifi-interface stats Example: Device# show wgb wifi 0/3/0 stats	(Optional) Displays the Wi-Fi station statistics.
Step 15	show controllers dot11Radio radio-interface antenna Example: Device# show controllers dot11Radio 0/3/0 antenna	(Optional) Displays the radio antenna statistics.
Step 16	show wgb mobile scan channel Example: Device# show wgb mobile scan channel	(Optional) Displays the mobile station channels scan configuration.
Step 17	show configuration Example: Device# show configuration	(Optional) Displays the configuration that is stored in the NV memory.
Step 18	show running-config Example:	(Optional) Displays the running configuration in the device.

	Command or Action	Purpose
	Device# show running-config	

Configuring Workgroup Bridge Timeouts (CLI)

Procedure

	Command or Action	Purpose
Step 1	configure wgb association response timeout <i>response-millisecs</i> Example: Device# configure wgb association response timeout 4000	Configures the WGB association response timeout. The default value is 5000 milliseconds. The valid range is between 300 and 5000 milliseconds.
Step 2	configure wgb authentication response timeout <i>response-millisecs</i> Example: Device# configure wgb authentication response timeout 4000	Configures the WGB authentication response timeout. The default value is 5000 milliseconds. The valid range is between 300 and 5000 milliseconds.
Step 3	configure wgb uclient timeout <i>timeout-secs</i> Example: Device# configure wgb uclient timeout 70	Configure the Universal WGB client response timeout. The default timeout value is 60 seconds. The valid range is between 1 and 65535 seconds..
Step 4	configure wgb eap timeout <i>timeout-secs</i> Example: Device# configure wgb eap timeout 20	Configures the WGB EAP timeout. The default timeout value is 3 seconds. The valid range is between 2 and 60 seconds.
Step 5	configure wgb channel scan timeout {fast medium slow} Example: Device# configure wgb channel scan timeout slow	Configures the WGB channel scan timeout.
Step 6	configure wgb dhcp response timeout <i>timeout-secs</i> Example: Device# configure wgb dhcp response timeout 70	Configures the WGB DHCP response timeout. The default value is 60 seconds. The valid range is between 1000 and 60000 milliseconds.
Step 7	show wgb dot11 association Example: Device# show wgb dot11 association	Displays the WGB association summary.

Configuring Bridge Forwarding for Workgroup Bridge (CLI)

Before you begin

The Cisco Wave 2 APs as Workgroup Bridge recognizes the Ethernet clients only when the traffic has the bridging tag.

We recommend setting the WGB bridge client timeout value to default value of 300 seconds, or less in environment where change is expected, such as:

- Ethernet cable is unplugged and plugged back.
- Endpoint is changed.
- Endpoint IP is changed (static to DHCP and vice versa).

If you need to retain the client entry in the WGB table for a longer duration, we recommend you increase the client WGB bridge timeout duration.

Procedure

	Command or Action	Purpose
Step 1	configure wgb bridge client add <i>mac-address</i> Example: Device# configure wgb bridge client add F866.F267.7DFB-	Adds a WGB client using the MAC address.
Step 2	configure wgb bridge client timeout <i>timeout-secs</i> Example: Device# configure wgb bridge client timeout 400	Configures the WGB bridge client timeout. Default timeout value is 300 seconds. The valid range is between 10 and 1000000 seconds.
Step 3	show wgb bridge Example: Device# show wgb bridge	Displays the WGB wired clients over the bridge.
Step 4	show wgb bridge wired gigabitEthernet <i>interface</i> Example: Device# show wgb bridge wired gigabitEthernet 0/1	Displays the WGB Gigabit wired clients over the bridge.
Step 5	show wgb bridge dot11Radio <i>interface-number</i> Example: Device# show wgb bridge dot11Radio 0/3/1	Displays the WGB bridge radio interface summary.