

# Understand Catalyst 9800 Wireless Controllers Configuration Model

## Contents

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### Introduction

[Background information](#)

[Policy Tag](#)

[Site Tag](#)

[RF Tag](#)

[List of Settings per Profile](#)

[WLAN Profile](#)

[Policy Profile](#)

[AP Join Profile](#)

[Flex Profile](#)

[RF Profile](#)

### Prerequisites

[Requirements](#)

[Components Used](#)

[Network Diagram](#)

### Configurations

[Declare Client VLANs](#)

[Wizard Based Configuration - Recommended for New 9800 WLC Deployments](#)

[AAA Wizard](#)

[Basic Wireless Setup](#)

[Advanced Wireless Setup](#)

[Menu Based Configuration - Recommended for Established 9800 WLCs Deployment](#)

[AAA on 9800 WLCs](#)

[Add the RADIUS server](#)

[Create a RADIUS group](#)

[Create the AAA methods](#)

[WLANs on 9800 WLCs](#)

[Create your SSID](#)

[Create/Modify a Policy Profile](#)

[Create/Modify a Policy Tag](#)

[Policy Tag Assignment](#)

[Policy Tag Assignment per AP](#)

[Policy Tag Assignment for Multiple APs](#)

[AP Join Settings on 9800 WLCs](#)

[Create/Modify an AP Join Profile](#)

[Create/Modify a Flex Profile \(If AP in Flex Mode\)](#)

[Create/Modify a Site Tag](#)

### Policy Tag Assignment

[Policy Tag Assignment per AP](#)

[Policy Tag Assignment for Multiple APs](#)

[RF Profiles on 9800 WLCs](#)

[Create/Modify the RF profiles for 2.4GHz / 5GHz](#)

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[Create/Modify a RF Tag](#)

[Policy Tag Assignment](#)

[Policy Tag Assignment per AP](#)

[Policy Tag Assignment for Multiple APs](#)

## **Verification**

[VLANs/Interfaces Configuration](#)

[AAA Configuration](#)

[WLAN Configuration](#)

[AP Configuration](#)

[Tag Configuration](#)

[Profile Configuration](#)

## **FAQs**

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# **Introduction**

This document describes the new configuration model of tags and profiles that is available on Catalyst 9800 Series Wireless Controllers.

## **Background information**

This document provides a walk through the various GUI options - wizard and menu-based that are available to design and deploy your 9800 WLC to service SSIDs at multiple sites.

If you are familiar with AireOS Wireless LAN Controllers (WLCs), you are aware of Access Points (APs) and FlexConnect Groups.

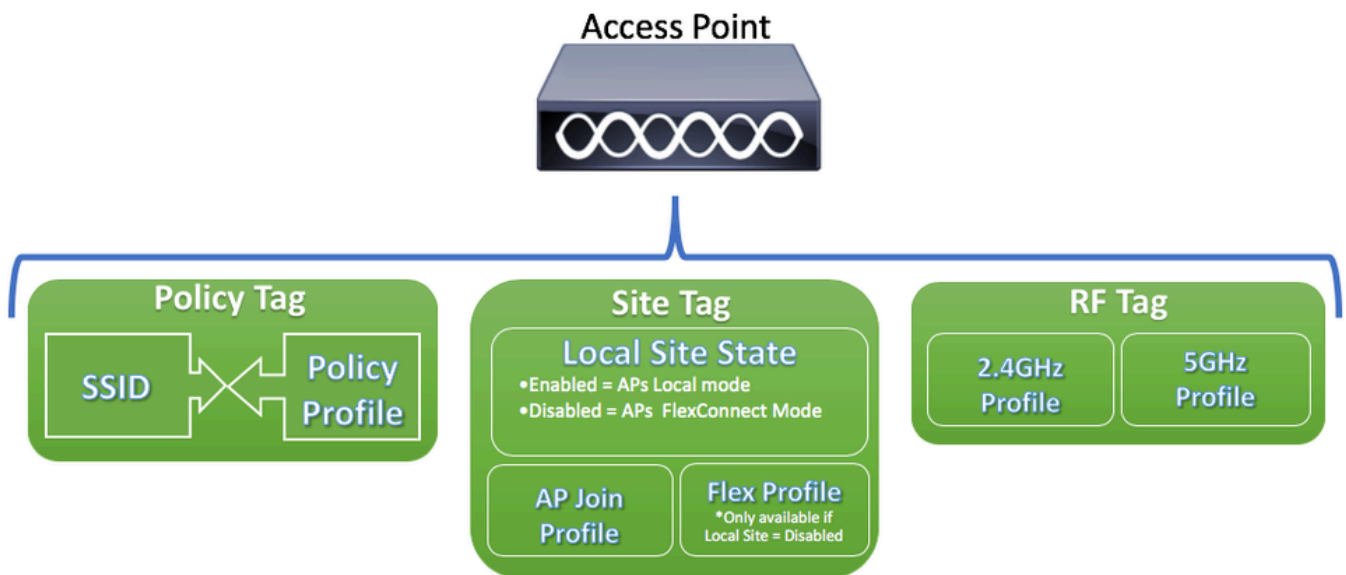
Those groups allow you to control what capabilities (Ex: which Wireless Local Area Networks [WLANs] or Radio Frequency [RF] profiles) are available for each AP, based on their AP group association.

On 9800 WLCs, tags are used to control the features that are available for each AP. Tags are assigned to every AP and inside every tag, you can find all the settings that were applied to the AP.

There are three tags:

- Policy Tag
- Site Tag
- RF Tag

Visual scheme of an AP configuration:



## Policy Tag

Policy Tag is the link between a WLAN Profile [Service Set Identifier (SSID)] and a Policy Profile.



- Policy Profile

Inside a Policy Profile, you can specify Virtual Local Area Network (VLAN) ID, If traffic is central or local switching, Mobiliy Anchors, Quality of Service (QoS), timers, among other settings.

- SSID

Inside a SSID, you can specify the WLAN name, Security type for the WLAN, advanced protocols like 802.11k among other settings.

## Site Tag

Site Tag defines if the APs are in Local Mode or Flexconnect mode. Other AP modes like Sniffer, Sensor, Monitor, Bridge can be configured directly on the AP.

The Site Tag also contains the AP Join Profile and Flex Profile that are applied to the AP.



**Note:** Flex Profile Setting only becomes available if the Local Site setting is disabled.

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# Site Tag

## Local Site State

- Enabled = APs Local mode
- Disabled = APs FlexConnect Mode

## AP Join Profile

## Flex Profile

\*Only available if  
Local Site = Disabled

- AP Join Profile

Inside an AP Join Profile, you can specify settings such as Control and Provisioning of Wireless Access Points (CAPWAP) timers, remote access to APs (Telnet/Secure Shell [SSH]), backup controller configuration and others.

- Flex Profile

On a Flex Profile, you have settings such as Address Resolution Protocol (ARP) caching, VLAN/ACL mapping and so on.

### **RF Tag**

Inside an RF tag, you can either select any RF profile or select to use the Global RF configuration.

# RF Tag

2.4GHz  
Profile

5GHz  
Profile

- 2.4 GHz Profile

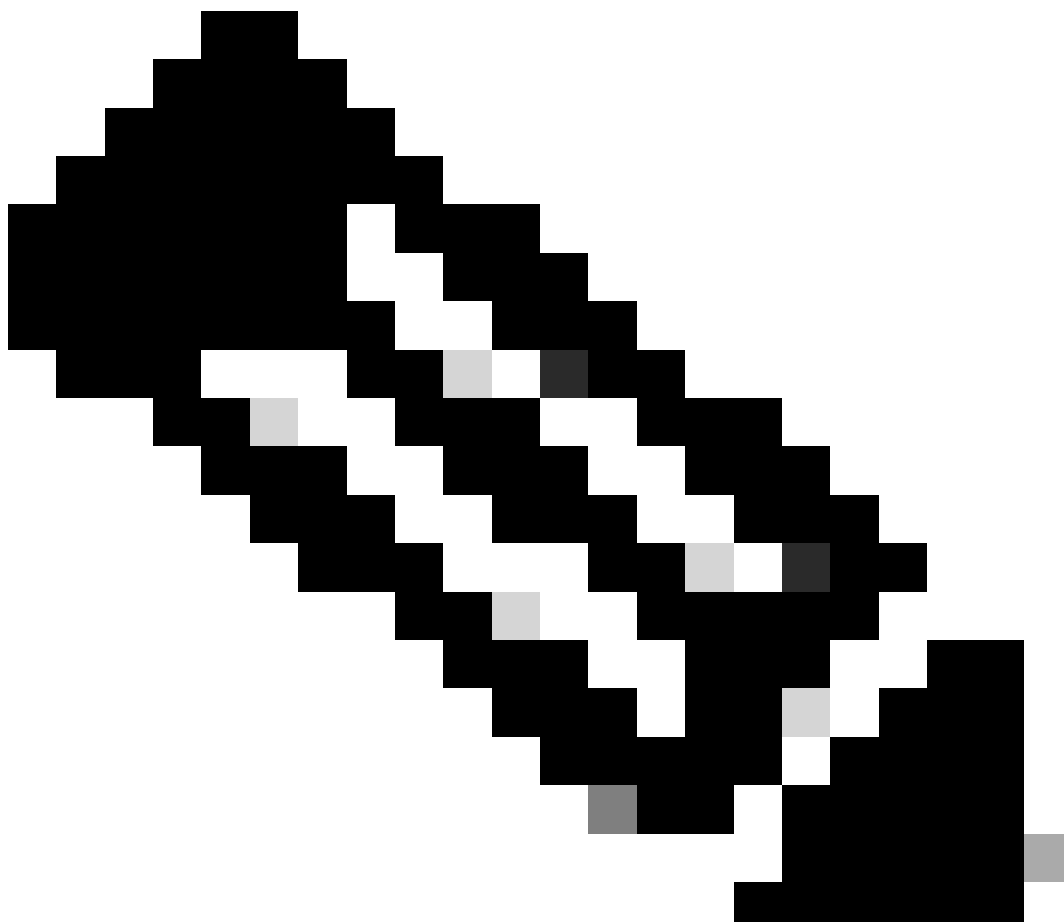
Allows you to define specific data rates to be used, Transmit Power Control (TPC) settings, Dynamic Channel Assignment (DCA) and some other Radio Resource Management (RRM) settings for the 2.4GHz band.

- 5GHz Profile

Allows you to define specific data rates to be used, Transmit Power Control (TPC) settings, Dynamic Channel Assignment (DCA) and some other Radio Resource Management (RRM) settings for the 5GHz band.

By default, the APs get assigned the default Tags (Default Policy Tag, Default Site Tag, Default RF Tag) and the default Tags gets assigned the default profiles (Default Policy Profile, Default AP Join Profile, Default Flex Profile).

---



**Note:** You can modify all the default settings except for the Default Policy Tag. The Default Policy Tag automatically links any SSID with a WLAN ID from 1 to 16 to the default policy profile and those links cannot be modified.

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## List of Settings per Profile

If you are familiar with AireOS, you are used to configure all characteristics for an SSID under WLAN configuration. On 9800 WLCs, these settings are split between WLAN Profile and Policy Profile. Also, some of the configuration seen under the Global AP Configuration Page on AireOS GUI has been moved to the AP Join Profile. Here you can find the list of all the settings that you can configure under each profile.

### WLAN Profile

- 802.11k
- Band select
- Broadcast SSID
- 802.11v (BSS, DMS, TFS, WNM)
- CCX
- Off Channel Scan Deferral

- Coverage Hole Detection (CHD)
- Client Association Limit
- Diagnostic Channel Capability
- Delivery Traffic Indication Message (DTIM)
- Access Control List (ACLs)
- Load Balance
- Local Authentication Settings
- Security Settings (PSK, 802.1x, WebAuth)
- Media-stream settings
- Management Frame Protection (MFP)
- 802.11ac settings per WLAN
- Peer-to-peer blocking
- Radio Policy
- Roamed Voice Clients re-anchor
- Static IP Clients Support
- Unscheduled automatic power save delivery (U-APSD) for WLAN
- Work Group Bridge (WGB) Support
- Universal AP
- Wifi Direct
- Wi-Fi Multimedia (WMM)
- Authentication List (Remote Authentication Dial-In User Service [RADIUS] servers)

## **Policy Profile**

- Authentication, Authorization, and Accounting (AAA) override
- AAA Policy
- Accounting List
- Auto QoS
- Call Snooping
- Central/Local Switching
- CiscoTrustSec (CTS) Security group access control lists (SGACLs)
- Datalink ACL
- Description
- Type-Length-Value (TLV) Caching (Dynamic Host Configuration Protocol [DHCP], Hypertext Transfer Protocol [HTTP])
- Idle Timeout
- Idle Threshold
- Fabric Profile
- Flex Network Address Translation / Port Address Translation (NAT/PAT)
- Flex Split MAC ACL
- Flex VLAN Based Central Switching
- IP Network-based Application Recognition (NBAR) Protocol Discovery
- IPv4/v6 ACL
- IPv4 DHCP
- IPv4/IPv6 Flexible Netflow Monitor
- Mobility Anchor
- Multicast VLAN
- Network Access Control (NAC)
- Passive Client
- RADIUS Profiling
- Reanchor
- Service Policy
- Session Timeout



- Session Initiation Protocol (SIP) Call Admission Control (CAC)
- Static IP Mobility
- Subscriber Policy Name
- Umbrella Parameter Map
- Uniform Resource Locator (URL) filter
- VLAN
- WGB VLAN
- WGB Broadcast Tagging

## **AP Join Profile**

- CAPWAP Backup
- CAPWAP Fallback
- CAPWAP Retransmit
- CAPWAP Timers
- CAPWAP Window
- Cisco Discovery Protocol (CDP) for APs
- Core Dump Trivial File Transfer Protocol (TFTP)
- Country Code
- Description
- 2.4GHz / 5GHz Client Reporting interval
- 802.1x Credentials for APs which act as supplicants
- Extended Module support
- Hyperlocation
- Internet Content Adaptation Protocol (ICAP)
- Jumbo Maximum Transmission Unit (MTU) status
- Link Aggregation (LAG) for APs
- Lawful Interception
- Light-Emitting Diode (LED) status
- Link Encryption
- Link Latency
- Mesh Profile
- AP Management user
- Network Time Protocol (NTP)
- Packet Capture Profile
- Power over Ethernet (PoE)
- AP Preferred Mode (IPv4/IPv6)
- Rogue Detection Settings (Containment, min Received Signal Strength Indicator [RSSI], min transient time, report interval)
- SSH/Telnet
- Persisten SSID
- Statistics Timer
- Syslog
- Transmission Control Protocol - Maximum Segment Size (TCP MSS) Adjust
- TFTP Downgrade
- AP Trace Profile
- Universal Serial Bus (USB) enable

## **Flex Profile**

- ACL Policy
- ARP Caching
- CTS

- Description
- Fallback Radio Interface Shutdown
- HTTP Client Proxy
- Min Latency Join for Flex AP
- Local Authentication parameters
- Multicast Parameters for Flex APs
- Native VLAN ID
- OfficeExtended AP mode
- Predownload
- Resilient (For Flex+Bridge APs)
- VLAN name mapping

## **RF Profile**

- Airtime Fairness
- Band Select settings (Only on 2.4GHz profile)
- Channel
- Client Network Preference
- Coverage Hole Detection (CHD) settings
- Description
- 802.11n only mode
- High Density automatic settings
- High-Speed Roam (HSR)
- Load Balance Settings
- Rates
- Traps
- TX Power Levels

## **Prerequisites**

### **Requirements**

There are no specific requirements for this document.

### **Components Used**

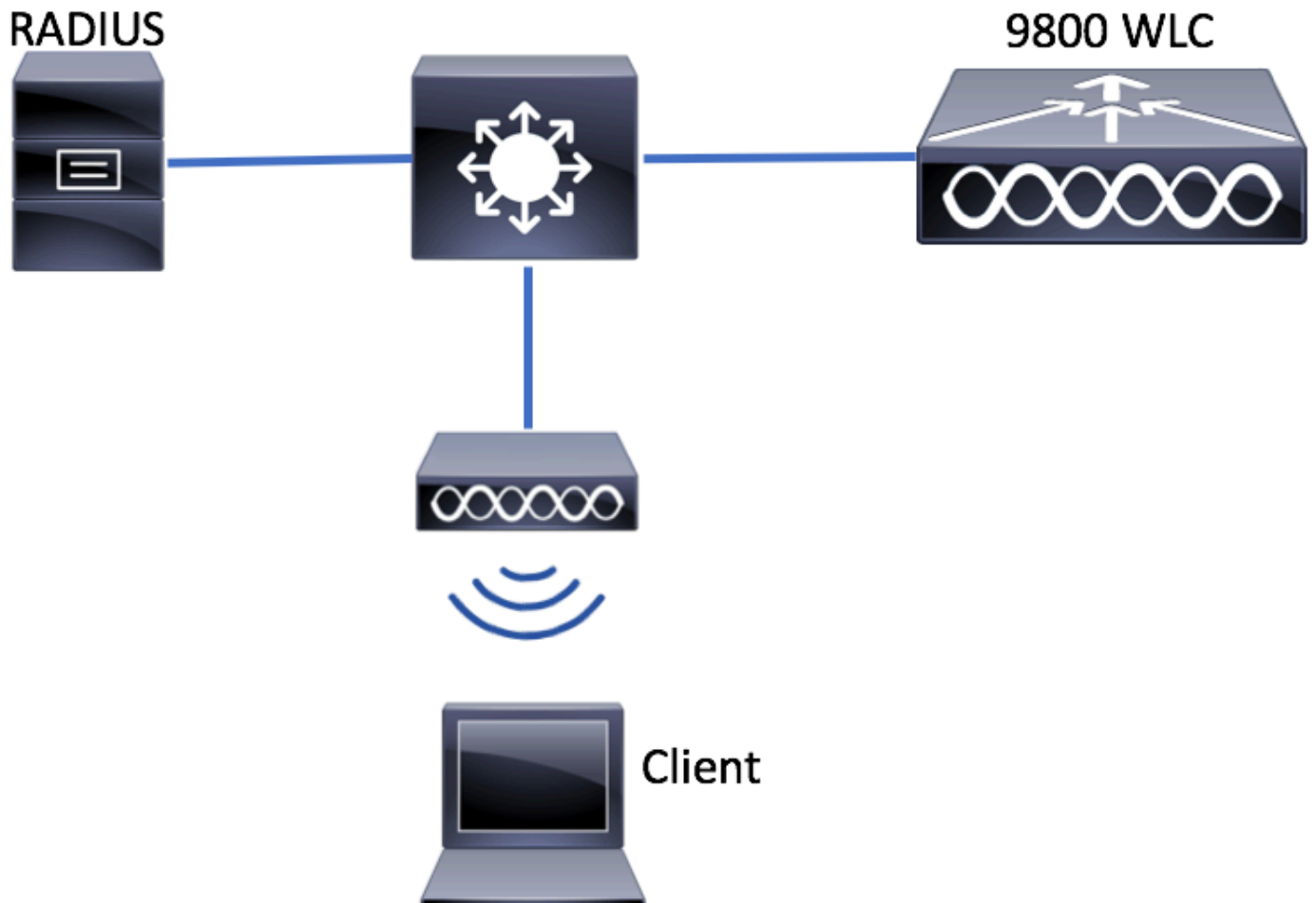
The information in this document is based on these software and hardware versions:

- Cisco Catalyst 9800 Wireless Controllers running Cisco IOS® XE, Gibraltar v16.10

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

### **Network Diagram**

This document is based on this topology:



## Configurations

### Declare Client VLANs

Before you start any configuration, you need to add the needed VLANs (VLANs where the wireless clients are assigned).

Step 1. Navigate to **Configuration > Layer2 > VLAN > VLAN > + Add**.

Search Menu Items

- Dashboard
- Monitoring
- Configuration**
- Administration
- Troubleshooting

## VLAN

SVI **VLAN** VLAN Group

**+ Add** **x Delete**

	VLAN ID	Name
<input type="checkbox"/>	1	default
<input type="checkbox"/>	100	VLAN100
<input type="checkbox"/>	210	VLAN210
<input type="checkbox"/>	2602	VLAN2602

Step 2. Enter the needed information.

### Create VLAN

VLAN ID\*

Name

State **ACTIVATED**

RA Throttle Policy

IGMP Snooping  DISABLED

ARP Broadcast  DISABLED

Port Members

Available (2)

- Gi2 →
- Gi3 →

Associated (0)

No Associated Members



**Note:** If you do not specify a Name, the VLAN automatically gets assigned the name of VLANXXXX, where XXXX is its VLAN id.

---

Repeat steps 1 and 2 for all the needed VLANs. Once done, you can continue to step 3.

Step 3. Verify the VLANs are allowed in your data interfaces.

If you are using port channels, navigate to **Configuration > Interface > Logical > PortChannel name > General**. If you see it configured as Allowed Vlan = All, you are done with the configuration. If you see Allowed VLAN = Vlans IDs, add the needed VLANs and after that click **Update & Apply to Device**.

If you are not using port channels, navigate to **Configuration > Interface > Ethernet > Interface Name > General**. If you see it configured as Allowed Vlan = All, you are done with the configuration. If you see Allowed VLAN = Vlans IDs, add the needed VLANs and after that click **Update & Apply to Device**.

No changes needed:

General

Advanced

Interface

GigabitEthernet3

Description

(1-200 Characters)

Admin Status

UP 

Port Fast

disable ▼

Enable Layer 3 Address

DISABLED

Switchport Mode

trunk ▼

Allowed Vlan

All  Vlan IDs

Native Vlan

▼

VLAN Id needs to be added:

## Configure Interface GigabitEthernet2



General

Advanced

Interface	GigabitEthernet2	
Description	<input type="text"/>	(1-200 Characters)
Admin Status	<input type="button" value="UP"/>	
Port Fast	<input type="text" value="disable"/>	
Enable Layer 3 Address	<input type="checkbox"/> DISABLED	
Switchport Mode	<input type="text" value="trunk"/>	
Allowed Vlan	<input type="radio"/> All <input checked="" type="radio"/> Vlan IDs	
Vlan IDs	<input type="text" value="210,2602,2685,2601"/>	(e.g., 2,4,6-10)
Native Vlan	<input type="text" value="1"/>	

Cancel

Update & Apply to Device

CLI:

```
# config t
```

```
# vlan <vlan-id>
# exit

# interface <interface-id>
# switchport trunk allowed vlan add <vlan-id>
# end
```

## Wizard Based Configuration - Recommended for New 9800 WLC Deployments

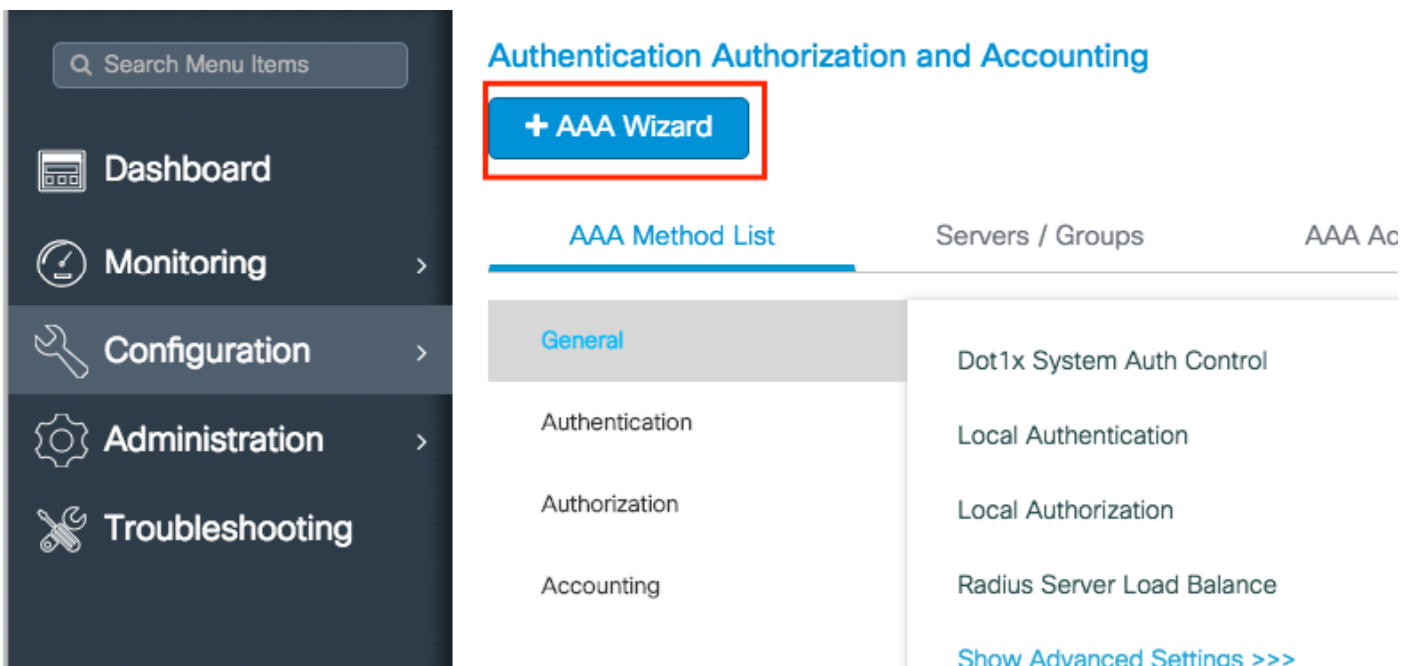
For Catalyst 9800 WLCs installation, you can use configuration wizards made available to guide you through the configuration process.

If you need to use RADIUS servers on your deployment, you can use the AAA Wizard first and then choose between the Basic or Advanced Wireless Setup.

If you do not use RADIUS servers on your deployment, you can go directly to either Basic or Advanced Wireless Setup.

### AAA Wizard

Step 1. Navigate to **Configuration > Security > AAA > + AAA Wizard**.



The screenshot shows the Cisco configuration interface. On the left is a dark sidebar with a search bar and menu items: Dashboard, Monitoring, Configuration, Administration, and Troubleshooting. The main content area is titled "Authentication Authorization and Accounting" and features a blue button labeled "+ AAA Wizard" which is highlighted with a red rectangle. Below this button are three tabs: "AAA Method List" (selected), "Servers / Groups", and "AAA Ac". Under the "AAA Method List" tab, there is a "General" section with sub-items: Authentication, Authorization, and Accounting. To the right of these sub-items, there is a list of server types: "Dot1x System Auth Control", "Local Authentication", "Local Authorization", and "Radius Server Load Balance". At the bottom right, there is a link for "Show Advanced Settings >>>".

Step 2. Enable the needed kind of servers and enter a server name (It can be the IP address or any other string), the server IP and the shared secret. After that, click **Next**.



**Add Wizard** Basic  Advanced

SERVER  SERVER GROUP ASSOCIATION  MAP AAA

RADIUS  TACACS+  LDAP

**RADIUS**

Name\*

Server Address\*

Shared Secret\*

Confirm Shared Secret\*

Step 3. Enter the information to create a server group. Ensure you add the server specified in previous step to the **Assigned Servers**.

**Add Wizard** Basic  Advanced

SERVER  SERVER GROUP ASSOCIATION  MAP AAA

**RADIUS**

Name\*

Group Type

MAC-Delimiter

MAC-Filtering

Dead-Time (mins)

Available Servers

Assigned Servers

Step 4. Enable Authentication and create an Authentication method.

Navigate to the **Authentication** tab and enter the needed information. Once done, click **Save & Apply to Device**.

**Add Wizard** Basic  Advanced

SERVER     SERVER GROUP ASSOCIATION     MAP AAA

General     **Authentication**     Authorization     Accounting

General     **Authentication**

Method List Name\*

Type\*

Group Type

Fallback to local

Available Server Groups: radius, ldap, tacacs+, ISE-kcg-grp

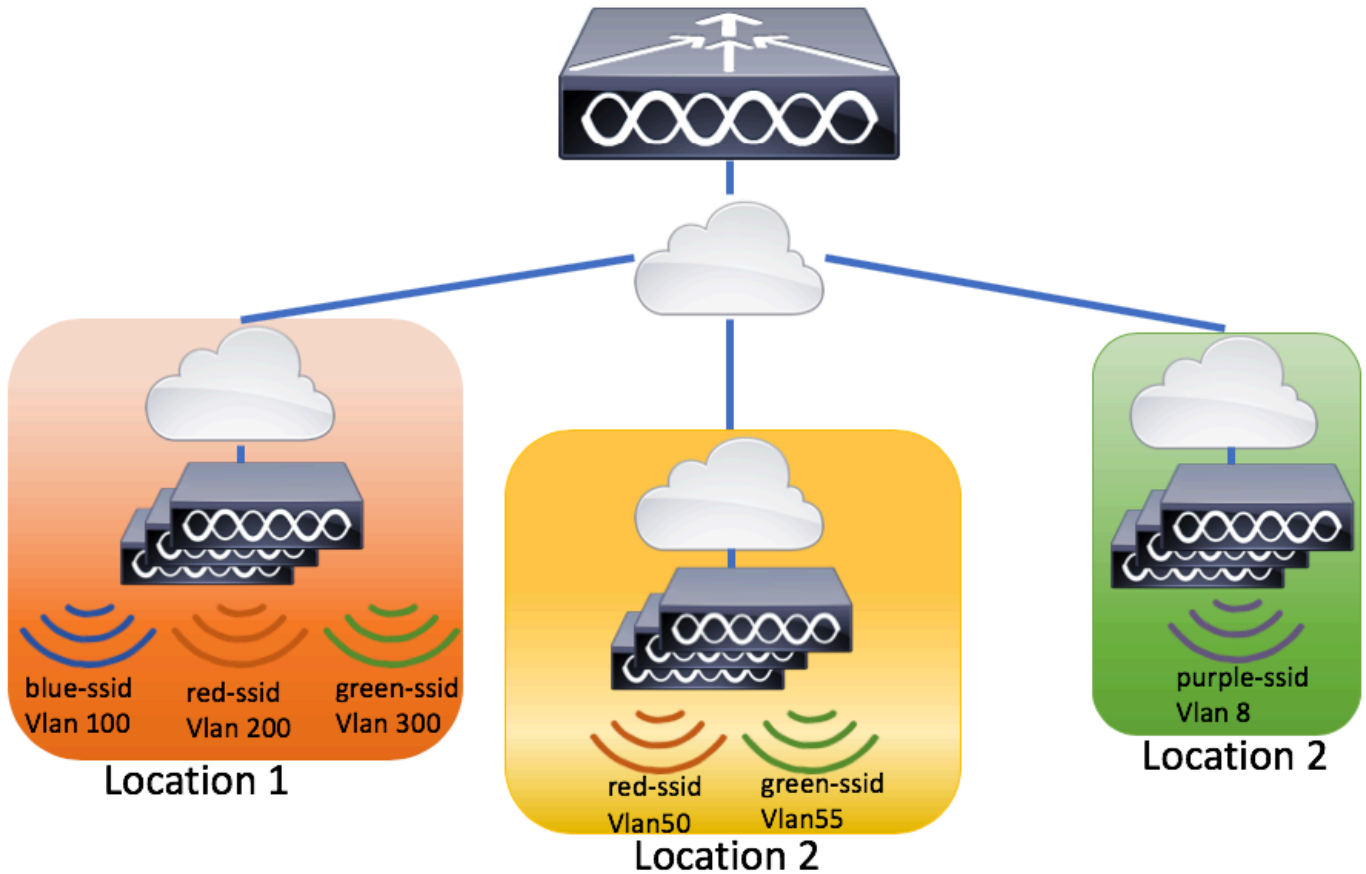
Assigned Server Groups: **server-group**

## Basic Wireless Setup

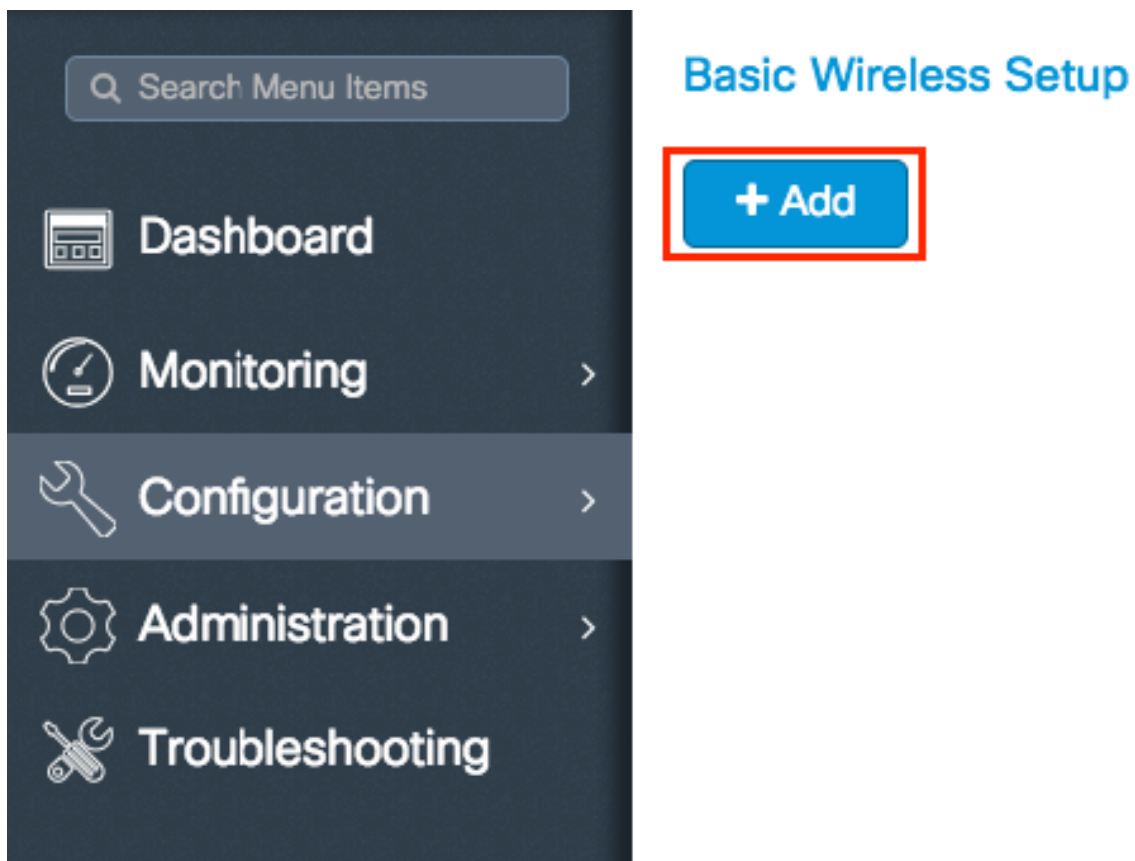
This wizard guides you through a basic wireless setup. It allows you to segment the APs function with little effort.

Example of a deployment with the basic wireless setup wizard.



Step 1. Create a new location.

Navigate to **Configuration > Wireless Setup > Basic > +Add**.



Step 2. Enter the needed information on the General tab.

## Basic Wireless Setup:

← Back

General	Wireless Networks	AP Provisioning
Location Name*	<input type="text" value="Enter Name"/>	
Description	<input type="text" value="Enter Description"/>	
Location Type	<input checked="" type="radio"/> Local <input type="radio"/> Flex	
Client Density	<input type="range" value="Typical"/>	

Location Name = Name of the new location

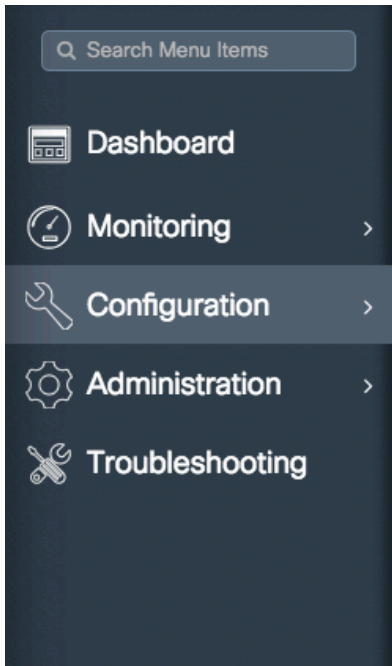
Description = Optional description of the location

Location Type = Local (Local mode APs), Flex (FlexConnect Mode APs)

Client Density = Adjusts RF configuration for the specified Client Density.

Step 3. Add the needed WLANs.

Navigate to the **Wireless Networks** tab and click **+Add**.



## Basic Wireless Setup: Location-typical-density

[← Back](#)

General **Wireless Networks** AP Provisioning

**+ Add** [x Delete](#)

### WLANs on this Location

WLAN Name
-----------

◀ 0 ▶ 10 items per page

You can either select **Define new** to create a new WLAN from scratch or select an established one from the WLAN\* drop down list.

Basic Wireless Setup: Location-typical-density

[← Back](#) [x Delete Location](#)

General **Wireless Networks** AP Provisioning

**+ Add** [x Delete](#)

### WLANs on this Location

WLAN Name	VLAN/VLAN Group
-----------	-----------------

◀ 0 ▶ 10 items per page No items to c

#### Wireless Network Details

WLAN\*  [or Define new](#)  
Network name is required

#### Policy Details

VLAN/VLAN Group\*  (E.g. 1,2,5-7)

ACL  [or Define new](#)

QoS

Central Switching  Central Authentication

Central DHCP  Central Association

[x](#) [✓](#)

If you select **Define new**, a menu like this appears, where you can choose an SSID name, type of security and other SSID related settings. Once you complete the configuration of the new SSID, click **Save & Apply to Device**.

## Add WLAN ✕

General
Security
Advanced

Profile Name\*

SSID

WLAN ID\*

Status ENABLED

Radio Policy

Broadcast SSID ENABLED

↶ Cancel

📄 Save & Apply to Device

Step 4. Select the VLAN (and any other configuration) that you want to apply to that SSID. Once done, click on the checkmark.

✕ Delete Location

General
Wireless Networks
AP Provisioning

+ Add
✕ Delete

WLANs on this Location

WLAN Name	VLAN/VLAN Group
No item	

Wireless Network Details

WLAN\*  or [Define new](#)

Policy Details

VLAN/VLAN Group\*  (E.g. 1,2,5-7)

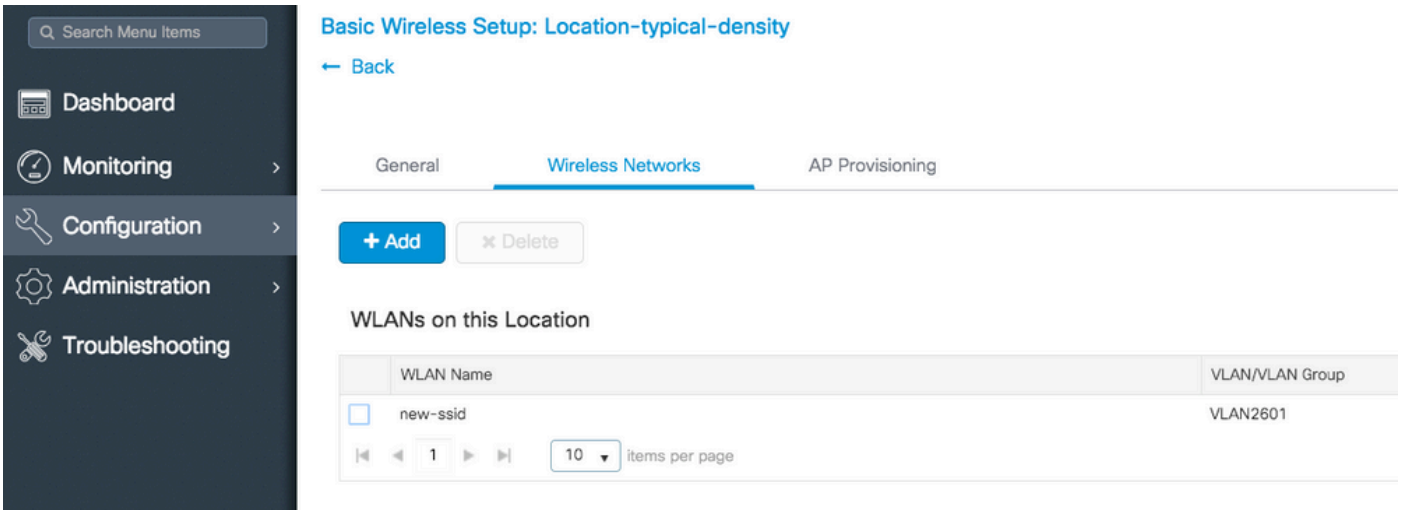
ACL

QoS

Central Switching  Central Authentication

Central DHCP  Central Association

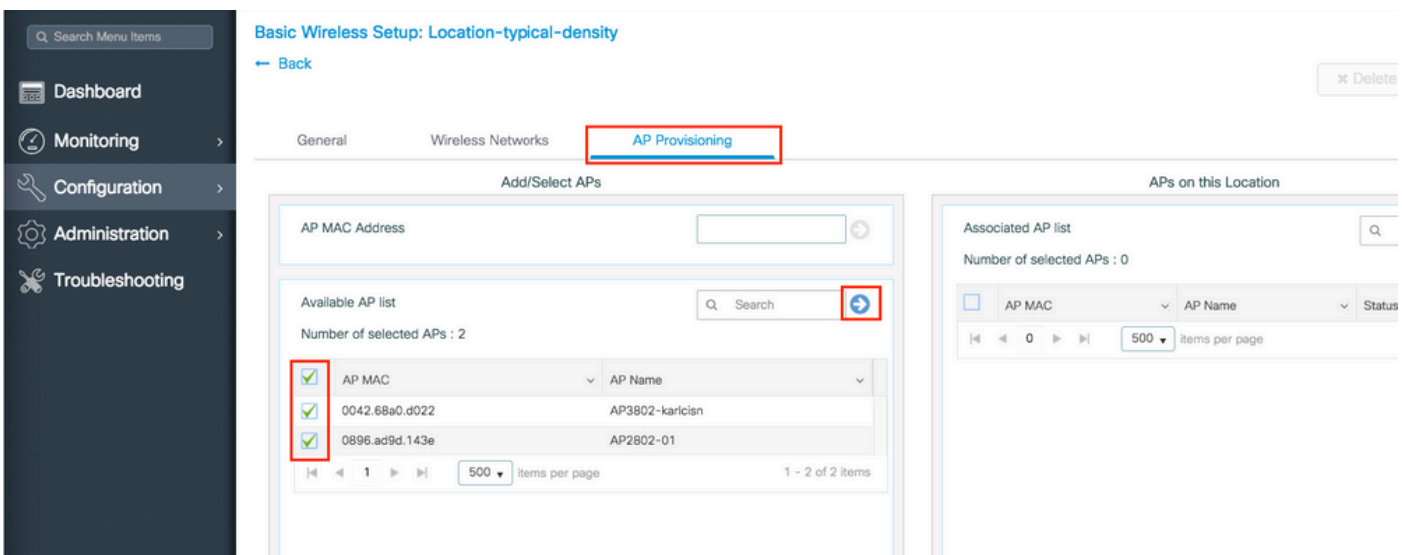
✕
✓



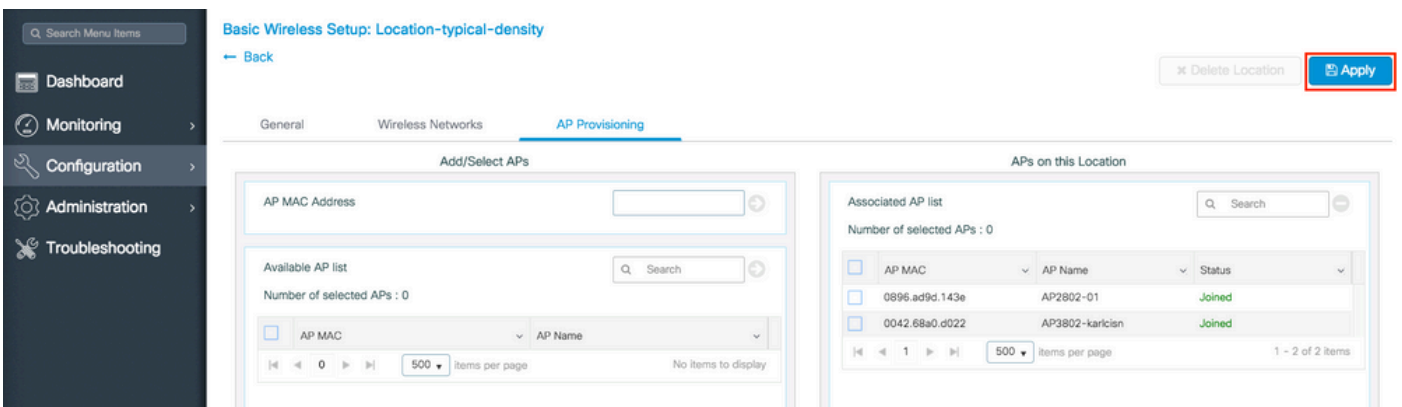
Repeat steps 3 and 4 for all the needed WLANs.

Step 5. Assign the configuration to the needed APs.

Navigate to **AP Provisioning** tab and select the APs to which you want to apply the current configuration. Once selected, move them from **Add/Select APs** to **APs on this Location**.



Step 6. To apply the configuration to the APs, click **Apply**.



Once you click **Apply**, you can see the new Location created. At the beginning, you see **0 Joined APs** because when the configuration was applied to the APs they restart its association to the controller

(they restart the CAPWAP tunnel).

The screenshot displays the Cisco WLC configuration interface. The left sidebar contains a search bar and navigation links for Dashboard, Monitoring, Configuration, Administration, and Troubleshooting. The 'Configuration' link is selected. The main content area shows the 'Basic Wireless Setup' section with an '+ Add' button. Below this, a location card for 'Location-typical-density' is shown, indicating 0 Joined APs and 0 Clients.

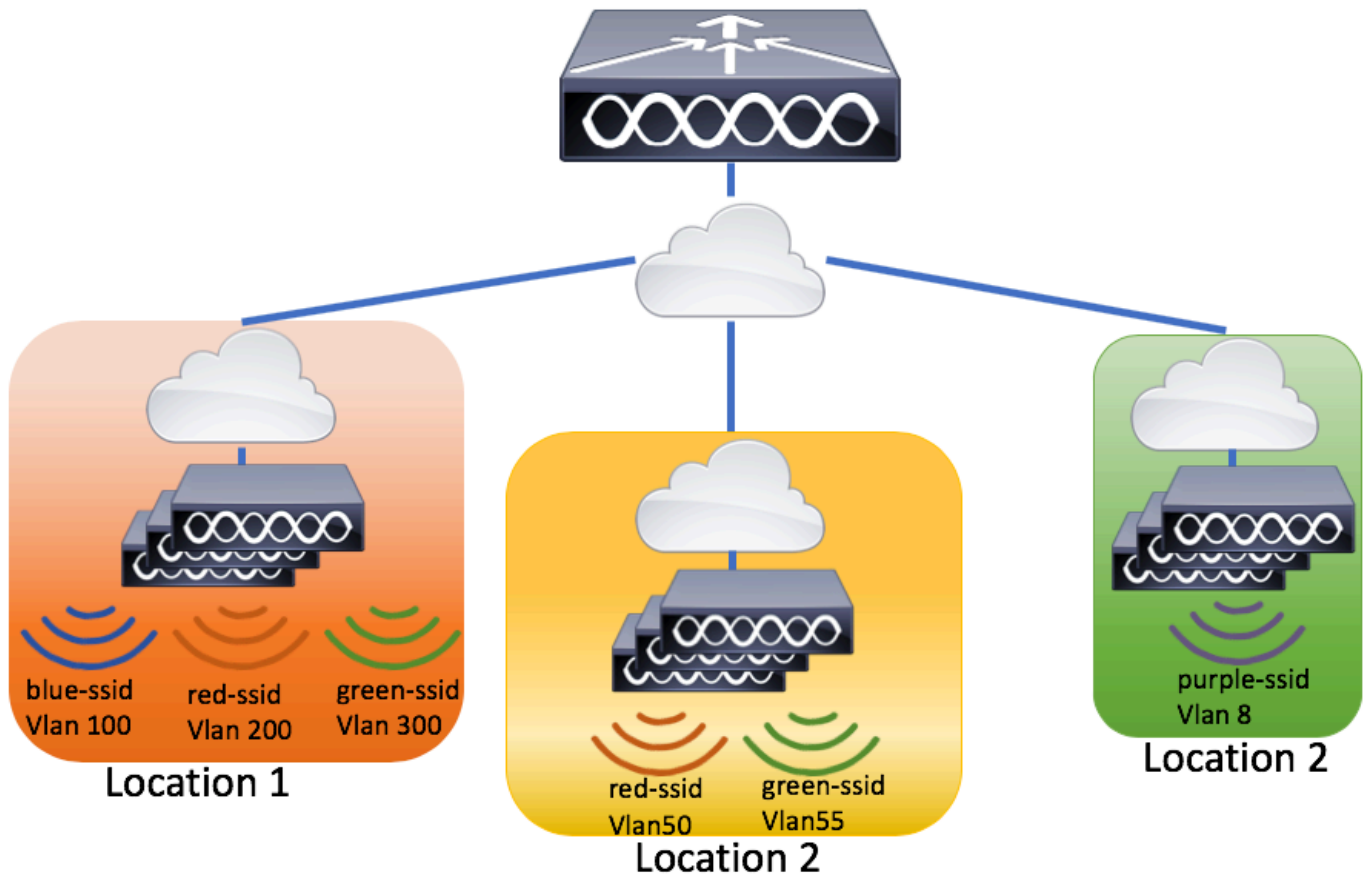
Repeat all the steps described so far for all the locations that are serviced by this 9800 WLC.

If you need to add more APs or WLANs to an established location, you can click on the location and navigate to the relevant tab to make the desired changes.

### **Advanced Wireless Setup**

This wizard guides you through an advanced wireless setup. It allows you to segment the APs functions with more detail.





Step 1. Start the Advanced Wireless Setup.

Navigate to **Configuration > Wireless Setup > Advanced > Start Now**.

## Wireless Setup Flow Overview

This screen allows you to design Wireless LAN Configuration. It involves creating Policies and Tags. Once the design is completed, they can be deployed to the Access Points right here.

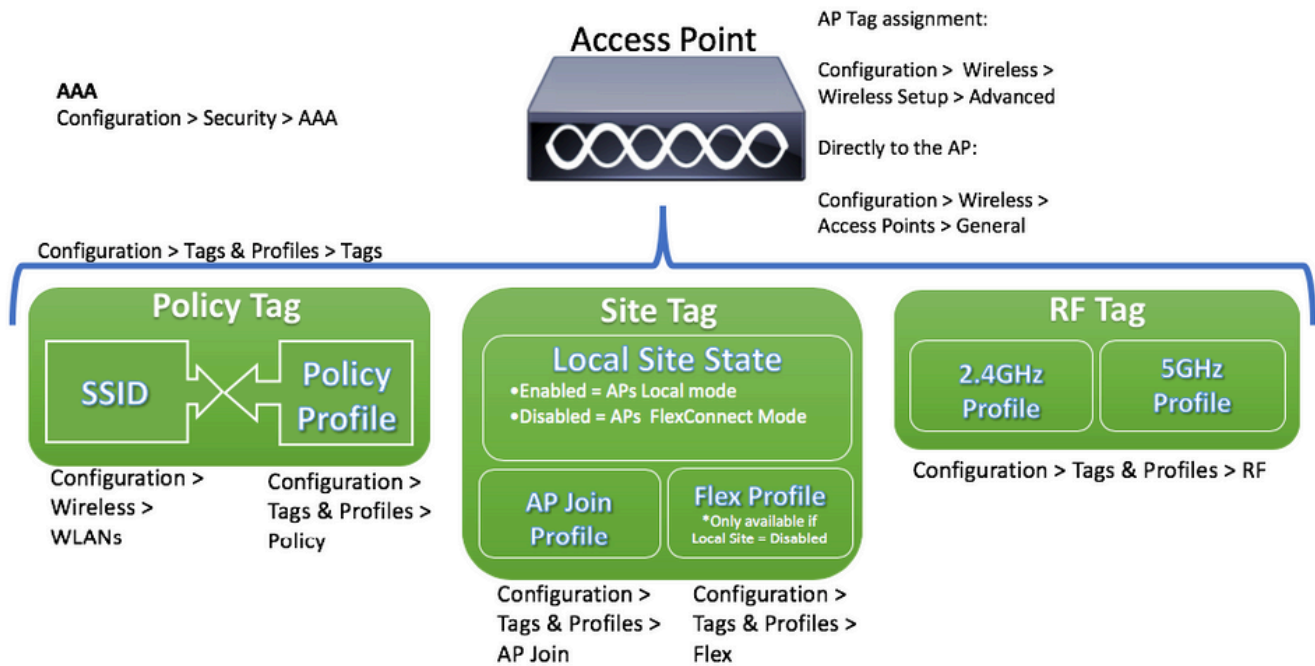


: Be aware that after change the policy tag on an AP, it loses its association to the 9800 WLCs and join back within about 1 minute.

## Menu Based Configuration - Recommended for Established 9800 WLCs Deployment

Instead of a wizard, select which specific elements need to be created or modified.

Visual representation of configuration elements.



### AAA on 9800 WLCs

Recommended flow of configuration:

1. Add the RADIUS server
2. Create a RADIUS group
3. Create the AAA methods

### Add the RADIUS server

Step 1. Navigate to **Configuration > Security > AAA > Servers/Groups > Servers > RADIUS > + Add.**

Search Menu Items

- Dashboard
- Monitoring >
- Configuration >
- Administration >
- Troubleshooting

## Authentication Authorization and Accounting

**+ AAA Wizard**

AAA Method List    **Servers / Groups**    AAA Advanced

**+ Add**    × Delete

**RADIUS**

TACACS+

LDAP

**Servers**    Server Groups

Name	Address
0    10 items per page	

Step 2. Enter all the needed information. Once done, click **Save & Apply to Device**.

### Create AAA Radius Server

Name\*     Set New PAC Key

IPv4 / IPv6 Server Address\*

Shared Secret\*

Confirm Shared Secret\*

Auth Port

Acct Port

Server Timeout (seconds)

Retry Count

Support for CoA **ENABLED**

**Cancel**    **Save & Apply to Device**

AAA Method List    **Servers / Groups**    AAA Advanced

**+ Add**    × Delete

**RADIUS**

TACACS+

LDAP

**Servers**    Server Groups

Name	Address	Auth Port	Acct Port
<input type="checkbox"/> server-name	172.16.0.12	1812	1813

0    10 items per page

CLI:

```
# config t
# radius server server-name
# address ipv4 172.16.0.12 auth-port 1812 acct-port 1813
# key <shared-key>
# exit

# aaa server radius dynamic-author
# client 172.16.0.12 server-key cisco123
# end
```

## Create a RADIUS group

Step 1. Navigate to **Configuration > Security > AAA > Servers/Groups > Servers > RADIUS > + Add**.

The screenshot displays the Cisco configuration interface for "Authentication Authorization and Accounting". On the left is a dark sidebar menu with options: Dashboard, Monitoring, Configuration, Administration, and Troubleshooting. The main content area is titled "Authentication Authorization and Accounting" and features a "+ AAA Wizard" button. Below this are three tabs: "AAA Method List", "Servers / Groups" (highlighted with a red box), and "AAA Advanced". Under the "Servers / Groups" tab, there are two buttons: "+ Add" (highlighted with a red box) and "x Delete". Below these buttons is a list of categories: "RADIUS" (highlighted with a red box), "TACACS+", and "LDAP". To the right, a sub-panel titled "Servers" is open, showing a "Server Groups" tab (highlighted with a red box). This sub-panel contains a table with one entry: "Server 1" under the "Name" column. Below the table is a pagination control showing "0" items and "10 items per page".

Step 2. Enter the needed information and ensure you move the server recently created to the **Assigned Servers** section.

## Create AAA Radius Server Group



Name*	<input type="text" value="server-group"/>
Group Type	<input type="text" value="RADIUS"/>
MAC-Delimiter	<input type="text" value="none"/>
MAC-Filtering	<input type="text" value="none"/>
Dead-Time (mins)	<input type="text" value="1-1440"/>

Available Servers

Assigned Servers

<input type="text"/>	<input type="button" value="&gt;"/>	<input type="text" value="server-name"/>
	<input type="button" value="&lt;"/>	

Search Menu Items

- Dashboard
- Monitoring >
- Configuration >
- Administration >
- Troubleshooting

### Authentication Authorization and Accounting

+ AAA Wizard

AAA Method List   **Servers / Groups**   AAA Advanced

+ Add   x Delete

**RADIUS**

TACACS+

LDAP

Servers   **Server Groups**

Name	Server 1	Serv
<input type="checkbox"/> server-group	server-name	N/A

10 items per page

CLI:

```
# config t
# aaa group server radius server-group
# server name server-name
# end
```

## Create the AAA methods

Step 1. Navigate to **Configuration > Security > AAA > AAA Method List > Authentication > + Add**.

Based on the kind of security needed on your SSIDs is the type of authentication you can choose.

- Type dot1x = Used on 802.1x SSIDs
- Type login = Used on WebAuth SSIDs

Group Type setting allows you to choose if the authentication must be sent to the external RADIUS server that was created or local.

- Group Type group = External RADIUS server
- Group Type local = Local authentication

Quick Setup: AAA Authentication

Method List Name\*

Type\*  ! Method list type is required

Group Type

Fallback to local

Available Server Groups: radius, ldap, tacacs+

Assigned Server Groups: server-group

Step 2. (optional) Create Authorization/Accounting methods as needed.

```
# config t
# aaa authentication login <login-method-name> group server-group
# aaa authentication dot1x <dot1x-method-name> group server-group
```

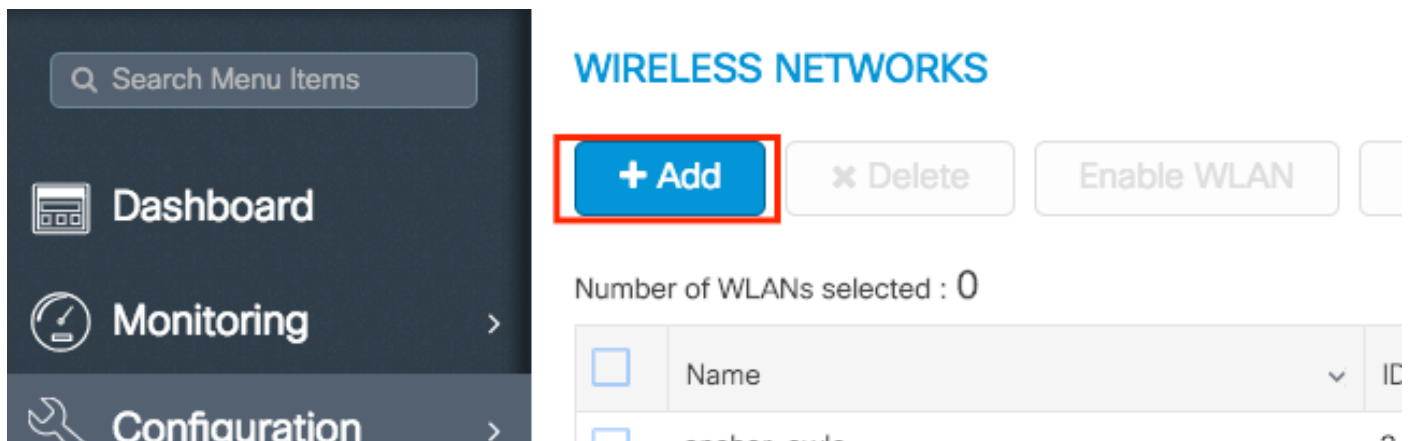
## WLANs on 9800 WLCs

Recommended flow of configuration:

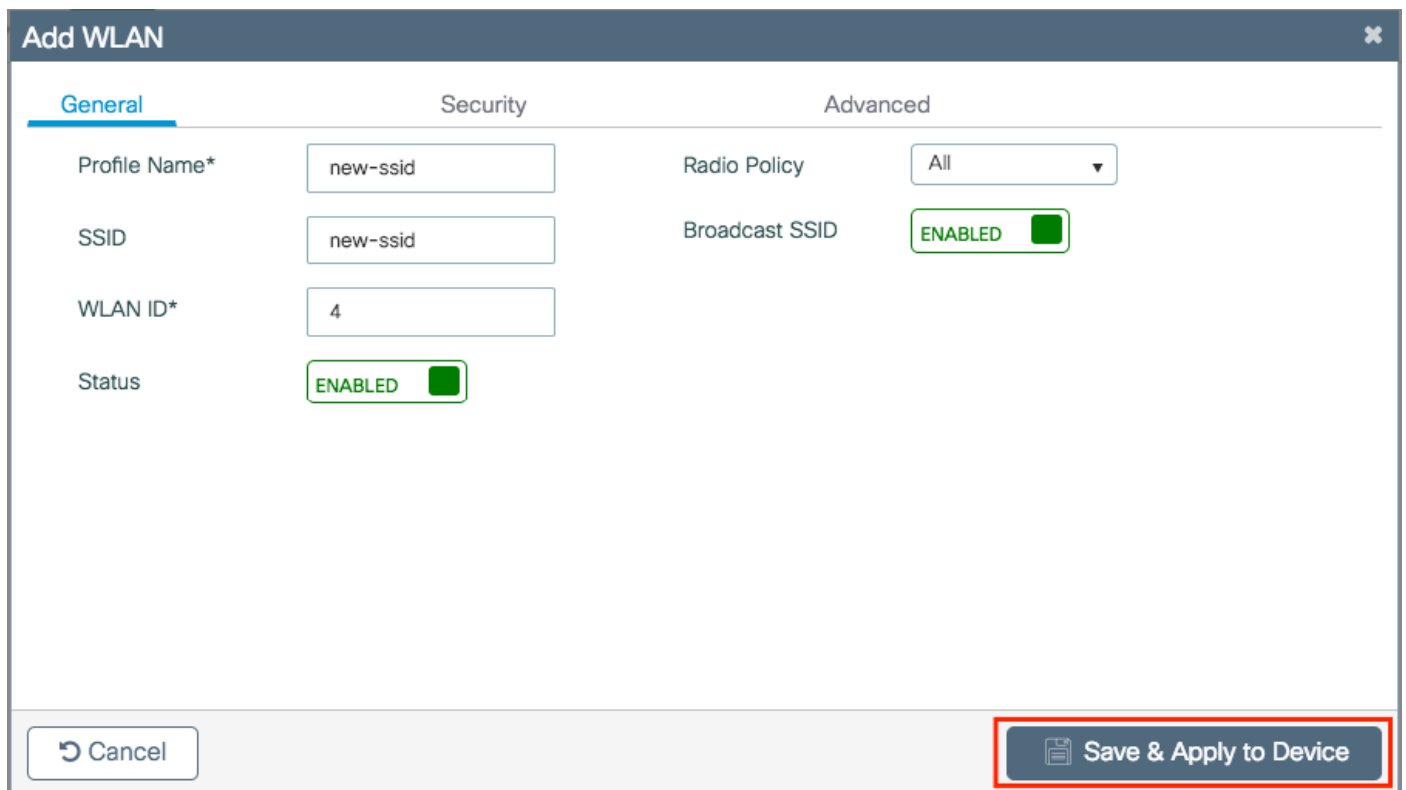
1. Create your SSID
2. Create/Modify a Policy Profile
3. Create/Modify a Policy Tag (Link the SSID to the desired Policy Profile)
4. If needed, assign the Policy Tag to the AP

## Create your SSID

Step 1. Navigate to **Configuration > Wireless > WLANs > + Add**.



Step 2. Enter all the needed information (SSID name, security type and so on) and once done, click **Save & Apply to Device**.



CLI:

```
# config t
# wlan <profile-name> <wlan-id> <ssid-name>
# ----desired settings----
# no shutdown
```

## Create/Modify a Policy Profile



Step 1. Navigate to **Configuration > Tags & Profiles > Policy**. Either select the name of an established one or click + **Add** to add a new one. Ensure it is enabled, set the needed VLAN and any other parameter you want to customize.

### Add Policy Profile ✕

**General**   Access Policies   QOS and AVC   Mobility   Advanced

**⚠** Configuring in enabled state will result in loss of connectivity for clients associated with this profile.

Name*	<input type="text" value="new-policy-profile"/>	<b>WLAN Switching Policy</b>
Description	<input type="text" value="Enter Description"/>	Central Switching <input checked="" type="checkbox"/>
Status	<b>ENABLED</b> <input checked="" type="checkbox"/>	Central Authentication <input checked="" type="checkbox"/>
Passive Client	<input type="checkbox"/> DISABLED	Central DHCP <input checked="" type="checkbox"/>
Encrypted Traffic Analytics	<input type="checkbox"/> DISABLED	Central Association <input checked="" type="checkbox"/>
<b>CTS Policy</b>		Flex NAT/PAT <input type="checkbox"/>
Inline Tagging	<input type="checkbox"/>	
SGACL Enforcement	<input type="checkbox"/>	
Default SGT	<input type="text" value="2-65519"/>	

Step 2. Once done, click **Save & Apply to Device**.

Add Policy Profile
✕

---

General
Access Policies
QOS and AVC
Mobility
Advanced

**WLAN Local Profiling**

HTTP TLV Caching

RADIUS Profiling

DHCP TLV Caching

Local Subscriber Policy Name

**WLAN ACL**

IPv4 ACL

IPv6 ACL

**VLAN**

VLAN/VLAN Group

Multicast VLAN

**URL Filters**

Pre Auth

Post Auth

CLI:

```
# wireless profile policy new-policy-profile
# vlan <vlan-id_or_vlan-name>
# -----any other desired setting-----
# no shutdown
```

### Create/Modify a Policy Tag

The Policy tag is the setting that allows you to specify which SSID is linked to which Policy Profile.

Step 1. Navigate to **Configuration > Tags & Profiles > Tags > Policy**. Either select the name of an established one or click + **Add** to add a new one.

Search Menu Items

Dashboard

Monitoring

Configuration

Administration

Troubleshooting

### Manage Tags

Policy Site RF AP

+ Add x Delete

	Policy Tag Name
<input type="checkbox"/>	PT1
<input type="checkbox"/>	PT2
<input type="checkbox"/>	PT3
<input type="checkbox"/>	PolTag1
<input type="checkbox"/>	new-policy

Step 2. Inside the **Policy Tag**, click **+Add**, from the drop down list select the WLAN Profile name you want to add to the Policy Tag and Policy Profile to which you want to link. After that, click the checkmark.

### Add Policy Tag

Name\* Enter Name

Description Enter Description

+ Add x Delete

WLAN Profile	Policy Profile

10 items per page No items to display

#### Map WLAN and Policy

WLAN Profile\* new-ssid Policy Profile\* new-policy-profile

x ✓

Cancel Save & Apply to Device

Step 3. Repeat step 2 for all the WLANs that you want to add. Once done, click **Save & Apply to Device**. Do not forget to assign a name to the new Policy Tag.

**Add Policy Tag** ✕

Name\*

Description

+ Add
✕ Delete

	WLAN Profile		Policy Profile
<input type="checkbox"/>	new-ssid		new-policy-profile

⏪ ⏩ 1 ⏪ ⏩
 items per page
1 - 1 of 1 items

↶ Cancel
📄 Save & Apply to Device

CLI:

```
# config t
# wireless tag policy <policy-tag-name>
# wlan <ssid-name> policy <policy-profile-name>
# end
```

### Policy Tag Assignment

You can assign a Policy Tag directly to an AP or assign the same Policy Tag to a group of APs at the same time. Choose the one that fits you.

### Policy Tag Assignment per AP

Navigate to **Configuration > Wireless > Access Points > AP name > General > Tags**. From the Policy dropdown list, select the desired Policy Tag and click **Update & Apply to Device**.

### Access Points

Number of AP(s): 2

AP Name	Total Slots	AP Model	Base Radio MAC	AP Mode	Admin Status
AP3802-karlcsin	3	AIR-AP3802I-A-K9	00-11-39-3E-00-00	Local	Disab
AP2802-01	3	AIR-AP2802I-B-K9	2c:00:11:39:3e:00	Local	Enabl

10 items per page

- > 5 GHz Radios
- > 2.4 GHz Radios
- > Dual-Band Radios
- > Country
- > LSC Provision

### Edit AP

General | Interfaces | High Availability | Inventory | Advanced

#### General

AP Name\* AP3802-karlcsin

Location\* default location

Base Radio MAC 00-11-39-3E-00-00

Ethernet MAC 0C-00-04-00-00-00

Admin Status Disabled

AP Mode Local

Operation Status Registered

Fabric Status Disabled

#### Version

Primary Software Version 15.2(4)MR1

Predownloaded Status N/A

Predownloaded Version N/A

Next Retry Time N/A

Boot Version 1.1.2.4

IOS Version 15.2(4)MR1

Mini IOS Version 0.0.0.0

#### IP Config

CAPWAP Preferred Mode Not Configured

DHCP IPv4 Address 172.16.0.203

Static IP (IPv4/IPv6)

#### Time Statistics

Up Time 6 days 3 hrs 10 mins 31 secs

Controller Association Latency 6 days 0 hrs 12 mins 6 secs

#### Tags

▲ Changing Tags will cause the AP to momentarily lose association with the Controller.

Policy PT3

Site Location-typical-den

RF Location-typical-den

Cancel | Update & Apply to Device



**Note:** Be aware that after change the policy tag on an AP, it loses its association to the 9800 WLCs and join back within about 1 minute.

---

CLI:

```
# config t
# ap <ethernet-mac-addr>
# policy-tag <policy-tag-name>
# end
```

## Policy Tag Assignment for Multiple APs

Navigate to **Configuration > Wireless Setup > Advanced > Start Now**.

Click on Tag APs := **icon**. Select the list of APs that you want to assign the tags to (You can click on the point down arrow next to AP name [or any other field] to filter the list of APs).

Number of APs: 2

Selected Number of APs: 2

The screenshot shows a table of APs with a filter dropdown menu open. The dropdown menu contains the text "Show items with value that:" followed by a selection box containing "Is equal to". Below the selection box are two buttons: "Filter" (green) and "Clear" (grey).

<input type="checkbox"/>	AP Name	AP
<input checked="" type="checkbox"/>	AP3802-karlcisn	
<input checked="" type="checkbox"/>	AP2802-01	

Filter dropdown menu content:

Show items with value that:

Is equal to

Filter Clear

Once you have selected the desired APs, click on + Tag APs.

Advanced Wireless Setup

Back

The screenshot shows the "Advanced Wireless Setup" interface. On the left is a navigation pane with various configuration options. On the right, the "Tag APs" step is active, showing a table of selected APs. A red box highlights the "+ Tag APs" button at the top of the table.

Number of APs: 2  
Selected Number of APs: 2

<input type="checkbox"/>	AP Name	AP Model	AP MAC	AP Mode	Admin Status	Operation Status	Policy Tag	Site Tag	RF Tag	Location	Country	Hyperlocation Method
<input checked="" type="checkbox"/>	AP3802-karlcisn	AIR-AP3802I-A-K9	0042.68c6.4120	Local	Disabled	Registered	Location-typical-density	Location-typical-density	Location-typical-density	default location	MX	Local
<input checked="" type="checkbox"/>	AP2802-01	AIR-AP2802I-B-K9	2c5a.0f40.6900	Local	Enabled	Registered	PT1	default-site-tag	default-rf-tag	CALO	US	Local

10 items per page 1 - 2 of 2 items

Select the tags that you want to assign to the APs and click **Save & Apply to Device**.

## Tag APs ✕

**Tags**

Policy  ▼

Site  ▼

RF  ▼

*Changing AP Tag(s) will cause associated AP(s) to reconnect*





**Note:** Be aware that when policy tag on an AP is changed, it loses its association to the 9800 WLCs and joins back within about one (1) minute.

---

CLI:

There is no CLI option to assign the same Tag to multiple APs.

### **AP Join Settings on 9800 WLCs**

Recommended flow of configuration:

1. Create/Modify an AP Join Profile
2. (Optional) Create/Modify a Flex Profile (If AP in Flex Mode)
3. Create/Modify a Site Tag
4. If needed, assign the Site Tag to the AP

### **Create/Modify an AP Join Profile**

Step 1. Navigate to **Configuration > Tags & Profiles > AP Join**.

Select either the name of an established one or click + **Add** to add a new one.

The screenshot shows the 'AP JOIN PROFILE' configuration page. On the left is a dark sidebar with navigation icons and labels: Dashboard, Monitoring, Configuration, Administration, and Troubleshooting. The main area has a search bar 'Search Menu Items' at the top. Below it, the title 'AP JOIN PROFILE' is displayed. There are two buttons: '+ Add' (highlighted with a red box) and 'Delete'. Below the buttons is a table with the following content:

	AP Join Profile Name
<input type="checkbox"/>	default-ap-profile
<input type="checkbox"/>	Location-typical-density

Below the table, there are navigation controls: a page number '1', a dropdown menu set to '10', and the text 'items per page'.

Step 2. Modify the profile as desired. Once done, click **Save & Apply to Device**.

The screenshot shows the 'Add AP Join Profile' dialog box. It has a title bar with a close button. Below the title bar are tabs for 'General', 'Client', 'CAPWAP', 'AP', 'Management', and 'Rogue AP'. The 'General' tab is selected. The form contains the following fields:

- Name\*: new-AP-join-profile
- Description: Enter Description
- LED State:

At the bottom of the dialog, there are two buttons: 'Cancel' and 'Save & Apply to Device' (highlighted with a red box).

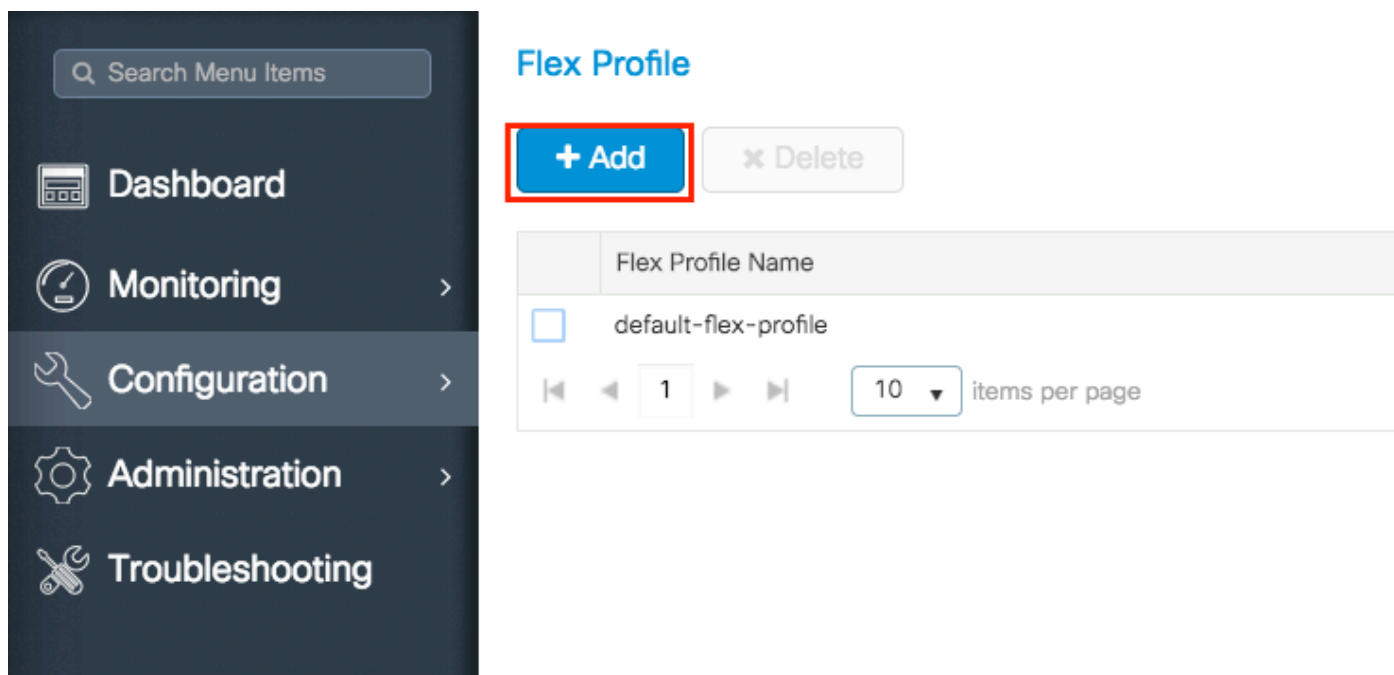
CLI:

```
# config t
# ap profile <ap-join-profile-name>
# -----desired settings-----
# end
```

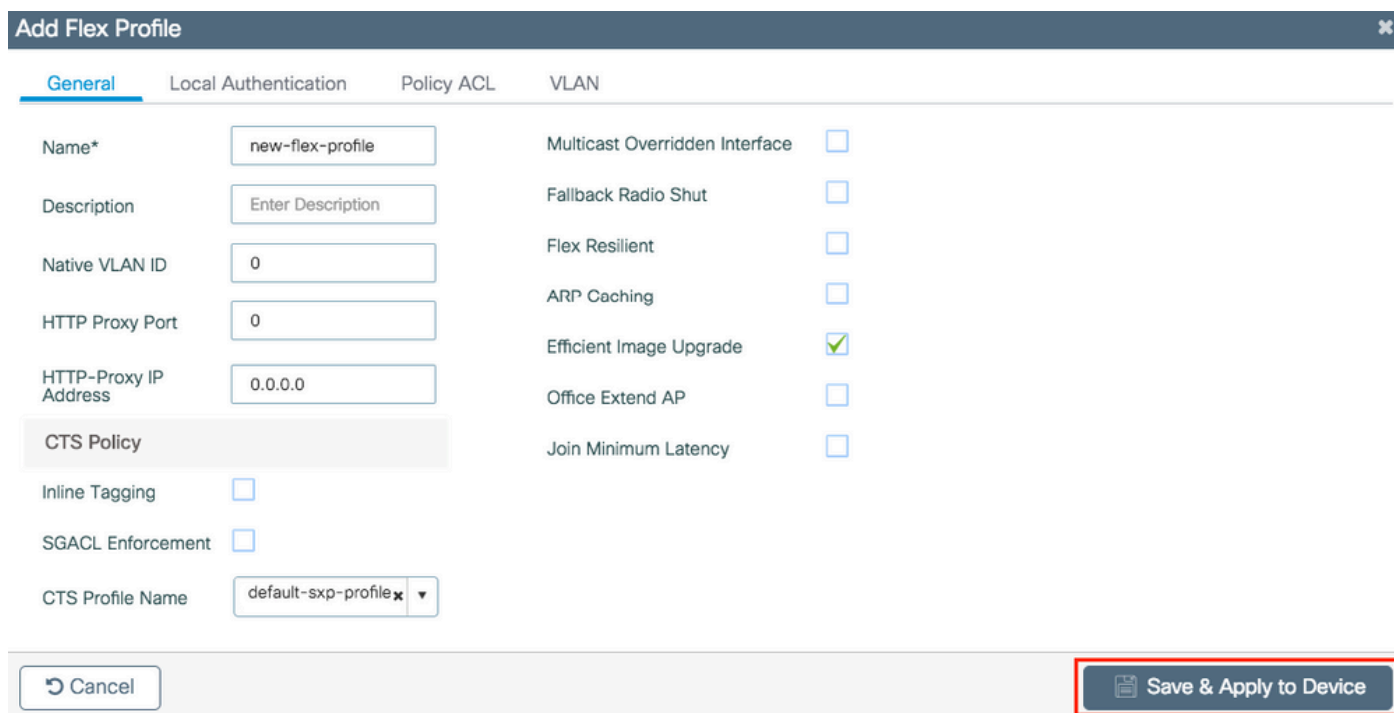
### Create/Modify a Flex Profile (If AP in Flex Mode)

Step 1. Navigate to **Configuration > Tags & Profiles > Flex**.

Either select the name of an established one or click + **Add** to add a new one.



Step 2. Modify the profile as desired. Once done, click **Save & Apply to Device**.



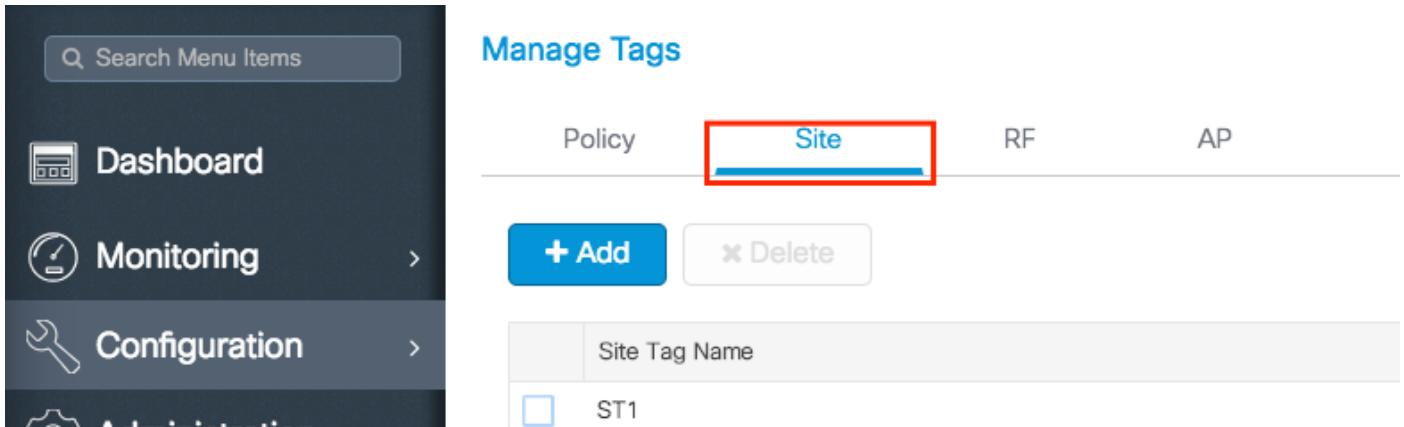
CLI:

```
# config t
# wireless profile flex <name-flex-profile>
# -----desired settings-----
# end
```

## Create/Modify a Site Tag

The Site tag is the setting that allows you to specify which AP join and/or Flex Profile is assigned to the APs.

Step 1. Navigate to **Configuration > Tags & Profiles > Tags > Site**. Either select the name of an established one or click + **Add** to add a new one.

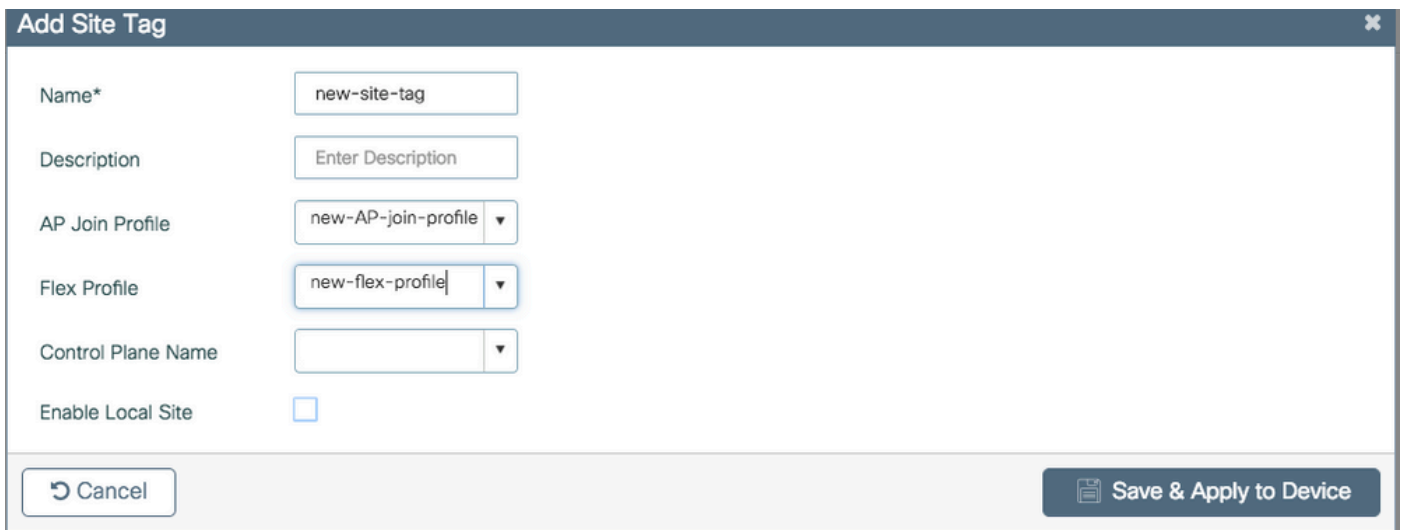


Site Tag Name
<input type="checkbox"/> ST1

Step 2. Inside the Site Tag, select the **AP Join Profile** that you want to add to the Site Tag.

If you wish to convert the APs that receive this tag into flexconnect mode, disable the **Enable Local Site** option.

Once it is disabled, you can also select a **Flex Profile**. After that, click **Save & Apply to Device**.



Remember to keep Enable Local Site enabled if the APs are planned to be used in local mode.

CLI:

```
# config t
# wireless tag site <site-tag-name>
# ap-profile <AP-join-profile-name>
# flex-profile <flex-profile-name>
# [no] local-site
# end
```

# Policy Tag Assignment

You can assign a Policy Tag directly to an AP or assign the same Policy Tag to a group of APs at the same time. Choose the one that fits you.

## Policy Tag Assignment per AP

Navigate to **Configuration > Wireless > Access Points > AP name > General > Tags**. From the Site dropdown list, select the desired **Site Tag** and click **Update & Apply to Device**.

The screenshot displays the Cisco Meraki web interface. On the left, the 'Access Points' section shows a list of two APs:

AP Name	Total Slots	AP Model	Base Radio MAC	AP Mode	Admin Status
AP3802-karlcsn	3	AIR-AP3802I-A-K9	00z:.....	Local	Disab
AP2802-01	3	AIR-AP2802I-B-K9	2z:.....	Local	Enabl

Below the list are expandable sections for '5 GHz Radios', '2.4 GHz Radios', 'Dual-Band Radios', 'Country', and 'LSC Provision'.

The 'Edit AP' window is open for 'AP3802-karlcsn'. The 'Tags' section contains a warning: 'Changing Tags will cause the AP to momentarily lose association with the Controller.' Below this, the 'Site' dropdown menu is highlighted with a red box and set to 'new-site-tag'. Other tags include 'Policy' (Location-typical-den) and 'RF' (Location-typical-den). At the bottom right, the 'Update & Apply to Device' button is also highlighted with a red box.



**Note:** Be aware that after change the policy tag on an AP, it loses its association to the 9800 WLCs and join back within about 1 minute.

---

CLI:

```
# config t
# ap <ethernet-mac-addr>
# site-tag <site-tag-name>
# end
```

### Policy Tag Assignment for Multiple APs

Navigate to **Configuration > Wireless Setup > Advanced > Start Now**.

Click on Tag APs := **icon**. Select the list of APs that you want to assign the tags to (You can click on the point down arrow next to AP name [or any other field] to filter the list of APs).

Number of APs: 2

Selected Number of APs: 2

The screenshot shows a table of APs with a filter dropdown menu open. The table has columns for selection, AP Name, and AP Model. Two APs are selected: AP3802-karlcisn and AP2802-01. The filter dropdown shows the text "Show items with value that:" followed by a selection "Is equal to". Below the dropdown are "Filter" and "Clear" buttons.

	AP Name	AP Model
<input type="checkbox"/>	AP3802-karlcisn	
<input checked="" type="checkbox"/>	AP2802-01	

Filter dropdown options:

- Show items with value that:
- Is equal to
- Filter
- Clear

Once you have selected the desired APs, click on + Tag APs.

Advanced Wireless Setup

Back

The screenshot shows the "Advanced Wireless Setup" interface. On the left is a navigation pane with "Tag APs" selected. On the right, a table displays the selected APs. The table has columns for selection, AP Name, AP Model, AP MAC, AP Mode, Admin Status, Operation Status, Policy Tag, Site Tag, RF Tag, Location, Country, and Hyperlocation Method. Two APs are selected: AP3802-karlcisn and AP2802-01. Below the table is a pagination control showing "10 items per page" and "1 - 2 of 2 items".

Number of APs: 2  
Selected Number of APs: 2

	AP Name	AP Model	AP MAC	AP Mode	Admin Status	Operation Status	Policy Tag	Site Tag	RF Tag	Location	Country	Hyperlocation Method
<input checked="" type="checkbox"/>	AP3802-karlcisn	AIR-AP3802I-A-K9	0042.68c6.4120	Local	Disabled	Registered	Location-typical-density	Location-typical-density	Location-typical-density	default location	MX	Local
<input checked="" type="checkbox"/>	AP2802-01	AIR-AP2802I-B-K9	2c5a.0f40.6900	Local	Enabled	Registered	PT1	default-site-tag	default-rf-tag	CALO	US	Local

10 items per page  
1 - 2 of 2 items

Select the tags that you want to assign to the APs and click **Save & Apply to Device**.

## Tag APs ✕

**Tags**

Policy  ▼

Site  ▼

RF  ▼

*Changing AP Tag(s) will cause associated AP(s) to reconnect*





**Note:** Be aware that after change the policy tag on an AP, it loses its association to the 9800 WLCs and join back within about 1 minute.

---

CLI:

There is no CLI option to assign the same Tag to multiple APs.

### **RF Profiles on 9800 WLCs**

Recommended flow of configuration:

1. Create/Modify the RF profiles for 2.4GHz / 5GHz
2. Create/Modify a RF Tag
3. If needed, assign the RF Tag to the AP

### **Create/Modify the RF profiles for 2.4GHz / 5GHz**

Step 1. Navigate to **Configuration > Tags & Profiles > RF**.

Either select the name of an established one or click + **Add** to add a new one.

	RF Profile Name	Band
<input type="checkbox"/>	Low_Client_Density_rf_5gh	802.11a
<input type="checkbox"/>	High_Client_Density_rf_5gh	802.11a
<input type="checkbox"/>	Low_Client_Density_rf_24gh	802.11b/g
<input type="checkbox"/>	High_Client_Density_rf_24gh	802.11b/g

Step 2. Modify the profile as desired, one per band (802.11a/802.11b). Once done, click **Save & Apply to Device**.

**Add RF Profile**

General | 802.11 | RRM | Advanced

Name\*

Radio Band

Status

Description

```
# config t
# ap dot11 { 5ghz | 24ghz} rf-profile <rf-profile-name>
# -----desired settings-----
# end
```

## Create/Modify a RF Tag

The RF tag is the setting that allows you to specify which RF Profiles are assigned to the APs.

Step 1. Navigate to **Configuration > Tags & Profiles > Tags > RF**. Either select the name of an established one or click + **Add** to add a new one.

Q Search Menu Items

- Dashboard
- Monitoring >
- Configuration >
- Administration >
- Troubleshooting

## Manage Tags

Policy      Site      **RF**      AP

**+ Add**      ✕ Delete

	RF Tag Name
<input type="checkbox"/>	RT1
<input type="checkbox"/>	RT2
<input type="checkbox"/>	default-rf-tag

Step 2. Inside the RF Tag, select the **RF Profile** that you want to add. Click **Save & Apply to Device**.

### Add RF Tag

Name\*

Description

Dot 11a RF Profile  ▼

Dot 11b RF Profile  ▼

CLI:

```
# config t
# wireless tag rf <rf-tag-name>
# 5ghz-rf-policy <11a-rf-prof>
# 24ghz-rf-policy <11b-rf-prof>
# end
```

### Policy Tag Assignment

You can assign a RF Tag directly to an AP or assign the same RF Tag to a group of APs at the same time. Choose the one that fits you.

### Policy Tag Assignment per AP

Navigate to **Configuration > Wireless > Access Points > AP name > General > Tags**. From the Site dropdown list, select the desired RF Tag and click **Update & Apply to Device**.

The screenshot displays the 'Edit AP' configuration page for 'AP3802-karlcsin'. The left sidebar shows the navigation menu with 'Configuration' selected. The main content area is divided into two panes. The left pane shows a table of 'All Access Points' with 2 total points. The right pane is the 'Edit AP' dialog, with the 'General' tab selected. The 'Tags' section shows a warning: 'Changing Tags will cause the AP to momentarily lose association with the Controller.' The 'RF' dropdown is highlighted with a red box. The 'Update & Apply to Device' button is also highlighted with a red box.

AP Name	Total Slots	AP Model	Base Radio MAC	AP Mode	Admin Status
AP3802-karlcsin	3	AIR-AP3802I-A-K9	00...	Local	Disab
AP2802-01	3	AIR-AP2802I-B-K9	2c...	Local	Enabl

**General** | Interfaces | High Availability | Inventory | Advanced

**General**

AP Name\*: AP3802-karlcsin

Location\*: default location

Base Radio MAC: 004...

Ethernet MAC: 004...

Admin Status: Disabled

AP Mode: Local

Operation Status: Registered

Fabric Status: Disabled

**Tags**

⚠ Changing Tags will cause the AP to momentarily lose association with the Controller.

Policy: Location-typical-den

Site: Location-typical-den

**RF**: new-rt-tag

**Version**

Primary Software Version: 16.1C

Predownloaded Status: N/A

Predownloaded Version: N/A

Next Retry Time: N/A

Boot Version: 1.1.2.4

IOS Version: 16.1C

Mini IOS Version: 0.0.0.0

**IP Config**

CAPWAP Preferred Mode: Not Configured

DHCP IPv4 Address: 172.16.0.203

Static IP (IPv4/IPv6):

**Time Statistics**

Up Time: 6 days 4 hrs 12 mins 59 secs

Controller Association Latency: 6 days 0 hrs 12 mins 6 secs

Cancel | Update & Apply to Device



**Note:** Be aware that after change the policy tag on an AP, it loses its association to the 9800 WLCs and join back within about 1 minute.

---

CLI:

```
# config t
# ap <ethernet-mac-addr>
# rf-tag <rf-tag-name>
# end
```

### Policy Tag Assignment for Multiple APs

Navigate to **Configuration > Wireless Setup > Advanced > Start Now**.

Click on Tag APs := **icon**. Select the list of APs that you want to assign the tags to (You can click on the point down arrow next to AP name [or any other field] to filter the list of APs).

Number of APs: 2

Selected Number of APs: 2

The screenshot shows a table of APs with a filter dropdown menu open. The table has columns for AP Name, AP Model, AP MAC, AP Mode, Admin Status, Operation Status, Policy Tag, Site Tag, RF Tag, Location, Country, and Hyperlocation Method. Two APs are selected: AP3802-karlcisn and AP2802-01. The filter dropdown menu is open, showing the text "Show items with value that:" and a dropdown menu with "Is equal to" selected. There are "Filter" and "Clear" buttons at the bottom of the dropdown menu.

AP Name	AP Model	AP MAC	AP Mode	Admin Status	Operation Status	Policy Tag	Site Tag	RF Tag	Location	Country	Hyperlocation Method
<input checked="" type="checkbox"/> AP3802-karlcisn	AIR-AP3802I-A-K9	0042.68c6.4120	Local	Disabled	Registered	Location-typical-density	Location-typical-density	Location-typical-density	default location	MX	Local
<input checked="" type="checkbox"/> AP2802-01	AIR-AP2802I-B-K9	2c5a.0f40.6900	Local	Enabled	Registered	PT1	default-site-tag	default-rf-tag	CALO	US	Local

Once you have selected the desired APs, click on + Tag APs.

Advanced Wireless Setup

Back

The screenshot shows the "Advanced Wireless Setup" interface. On the left, there is a vertical navigation menu with steps: Start, Tags & Profiles, WLAN Profile, Policy Profile, Policy Tag, AP Join Profile, Flex Profile, Site Tag, RF Profile, RF Tag, Apply, and Tag APs. The "Tag APs" step is highlighted with a red box. On the right, there is a table of APs with a red box around the "+ Tag APs" button. The table shows the same two APs as in the previous screenshot. The "Number of APs: 2" and "Selected Number of APs: 2" are displayed above the table. The table has columns for AP Name, AP Model, AP MAC, AP Mode, Admin Status, Operation Status, Policy Tag, Site Tag, RF Tag, Location, Country, and Hyperlocation Method. The "Tag APs" button is highlighted with a red box.

+ Tag APs

Number of APs: 2  
Selected Number of APs: 2

AP Name	AP Model	AP MAC	AP Mode	Admin Status	Operation Status	Policy Tag	Site Tag	RF Tag	Location	Country	Hyperlocation Method
<input checked="" type="checkbox"/> AP3802-karlcisn	AIR-AP3802I-A-K9	0042.68c6.4120	Local	Disabled	Registered	Location-typical-density	Location-typical-density	Location-typical-density	default location	MX	Local
<input checked="" type="checkbox"/> AP2802-01	AIR-AP2802I-B-K9	2c5a.0f40.6900	Local	Enabled	Registered	PT1	default-site-tag	default-rf-tag	CALO	US	Local

10 items per page 1 - 2 of 2 items

Select the tags that you want to assign to the APs and click **Save & Apply to Device**.

## Tag APs ✕

**Tags**

Policy  ▼

Site  ▼

RF  ▼

*Changing AP Tag(s) will cause associated AP(s) to reconnect*



**Note:** Be aware that after change the policy tag on an AP, it loses its association to the 9800 WLCs and join back within about 1 minute.

---

CLI:

There is no CLI option to assign the same Tag to multiple APs.

## Verification

You can use these commands to verify the configuration.

### VLANs/Interfaces Configuration

```
# show vlan brief
# show interfaces trunk
# show run interface <interface-id>
```



## AAA Configuration

```
# show run aaa
# show aaa servers
```

## WLAN Configuration

```
# show wlan summary
# show run wlan [wlan-name]
# show wlan { id <wlan-id> | name <wlan-name> | all }
```

## AP Configuration

```
# show ap summary
# show ap tag summary
# show ap name <ap-name> tag { info | detail }
```

```
# show ap name <ap-name> tag detail
```

```
AP Name       : AP2802-01
AP Mac        : 0896.ad9d.143e
```

```
Tag Type      Tag Name
-----
Policy Tag    PT1
RF Tag        default-rf-tag
Site Tag      default-site-tag
```

```
Policy tag mapping
```

```
-----
WLAN Profile Name      Policy Name      VLAN      Cent
-----
psk-pbl-ewlc          ctrl-v12602      VLAN0210  ENAB
```

```
Site tag mapping
```

```
-----
Flex Profile          : default-flex-profile
AP Profile            : default-ap-profile
Local-site           : Yes
```

```
RF tag mapping
```

```
-----
5ghz RF Policy       : Global Config
2.4ghz RF Policy     : Global Config
```

## Tag Configuration

```
# show wireless tag { policy | rf | site } summary
# show wireless tag { policy | rf | site } detailed <tag-name>
```

## Profile Configuration

```
# show wireless profile { flex | policy } summary
# show wireless profile { flex | policy } detailed <profile-name>
# show ap profile <AP-join-profile-name> detailed
```

## FAQs

1. Can I use the same Policy Profile for different SSIDs?

R= Yes

2. Can I use the same SSID on different Policy Tags?

R= Yes

3. Can I use the same Policy Profile on different Policy Tags?

R= Yes

4. What is maximum number of SSIDs that can be inside a Policy Tag?

R= 16

5. Do I need to modify the three tags on the AP?

R= No, you could create one new tag and assign it to the AP(s) and use the default tags for the rest of the settings, or leave the other two Tags unchanged.