

Configure SSID on Autonomous AP

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Background Information](#)

[Configure](#)

[Configuration from the Switch Side](#)

[Method 1: Configure the SSID on an AP with a GUI](#)

[Method 2: Configure the SSID on an AP with a CLI](#)

[Verify](#)

[Related Information](#)

Introduction

This document describes the process to configure a service set identifier (SSID) with a single VLAN on Cisco IOS®.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

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.

Background Information

The SSID is a unique identifier that wireless network devices use to establish and maintain wireless connectivity. AP radios are disabled and no default SSID is assigned. This is done in order to prevent unauthorized users to access a user wireless network through an access point that has a default SSID and no security settings. You must create an SSID before you can enable the access point radio interfaces.

Multiple access points on a network or subnetwork can use the same SSIDs. SSIDs are case sensitive and can contain up to 32 alphanumeric characters. Do not include spaces in your SSIDs.

The first character cannot contain any of these characters:

- Exclamation point (!)
- Pound sign (#)
- Semicolon (;)

These characters are also invalid and cannot be used in an SSID:

- Plus sign (+)
- Right bracket (])
- Front slash (/)
- Quotation mark (")
- Tab
- Irregular spaces

You can configure up to sixteen SSIDs on your Cisco Aironet Access Point and assign different configuration settings to each SSID. On dual-radio wireless devices, the SSIDs that you create are enabled on both radio interfaces. The client devices can associate to the access point with the use of any of the active SSIDs.

Configure

Configuration from the Switch Side

```
en
conf t
int Gig 1/1
switchport mode trunk
switchport trunk encapsulation dot1q
switchport trunk native vlan 50
switchport trunk allowed vlan 1,50
```

Method 1: Configure the SSID on an AP with a GUI

1. Create a VLAN for the SSID.

Cisco IOS Series AP
192.168.50.2
AVG - Search...
HOME NETWORK ASSOCIATION WIRELESS SECURITY SERVICES SOFTWARE EVENT LOG

Services

Hostname ap ap uptime is 2 hours, 16 minutes

Services: VLAN

Global VLAN Properties

Current Native VLAN:

Assigned VLANs

Current VLAN List

Create VLAN [Define SSIDs](#)

VLAN ID: 50 (1-4094)

VLAN Name (optional):

Native VLAN

Enable Public Secure Packet Forwarding

Radio0-802.11N 2.4GHz

2. Create an SSID and assign the VLAN.

Cisco IOS Series AP
192.168.50.2
AVG - Search...
HOME NETWORK ASSOCIATION WIRELESS SECURITY SERVICES SOFTWARE EVENT LOG

Security

Hostname ap ap uptime is 1 hour, 32 minutes

Security: Global SSID Manager

SSID Properties

Current SSID List

SSID: Cisco

VLAN: 50 [Define VLANs](#)

Backup 1:

Backup 2:

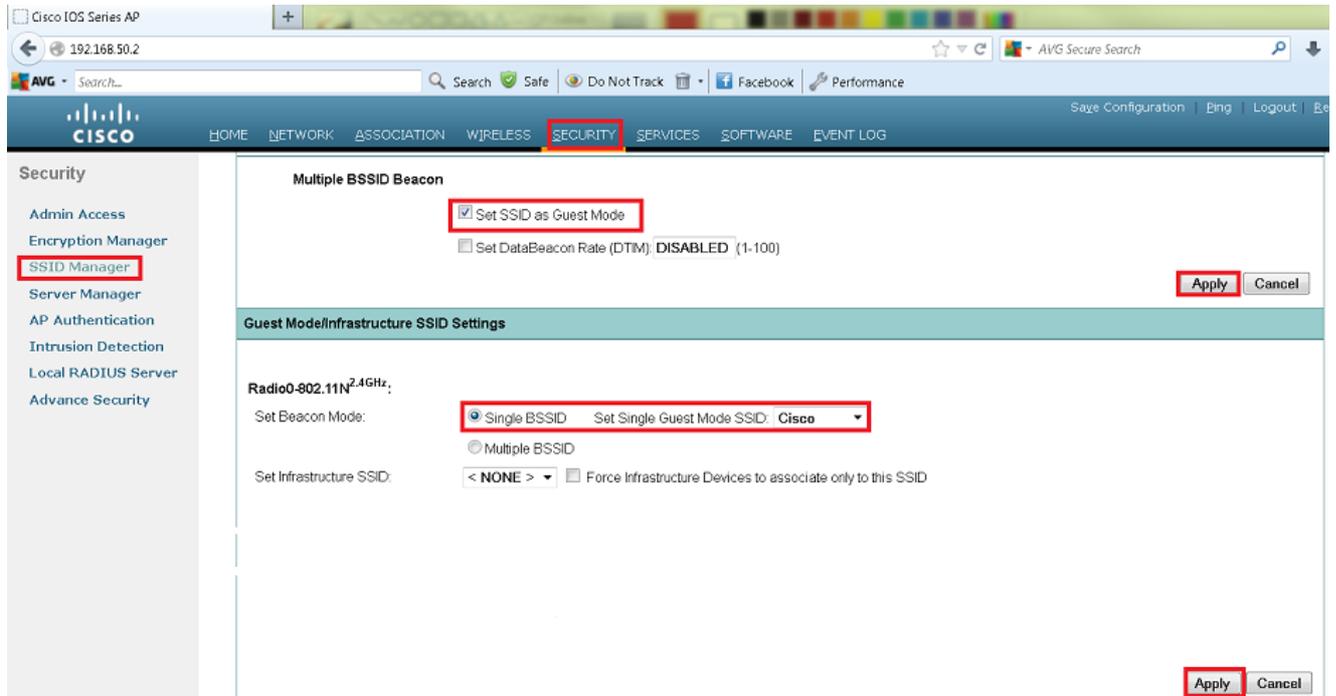
Backup 3:

Band-Select: Band Select

Interface: Radio0-802.11N 2.4GHz

Network ID: (0-4096)

3. Broadcast the SSID.



Method 2: Configure the SSID on an AP with a CLI

1. Configure the SSID and map it to a VLAN.

```
Enable
```

```
Conf ter
```

```
Dot11 ssid Cisco
```

```
Vlan 50
```

```
Authentication open
```

```
Guest-mode
```

```
End
```

2. Configure the Dot11 Radio 0 and Gigabit Ethernet interfaces.

```
>Conf t
```

```
interface Dot11Radio 0
```

```
ssid Cisco
```

```
Exit
```

```
Interface Dot11Radio 0.50
```

```
Encapsulation dot1Q 50 native
```

```
Bridge-group 1
```

```
Exit
```

```
Interface GigabitEthernet 0
```

```
Bridge-group 1
```

```
Interface GigabitEthernet 0.50
```

```
Encapsulation dot1Q 50 native
```

```
Bridge-group 1
```



Note: The Native VLAN must always be mapped to the bridge-group 1. If both the radios are active, then configure Radio 1 like Radio 0.

Verify

Use this section to confirm that your configuration works properly.

- Ping from the AP to the VLAN interface of the switch.
- On the AP, enter the `show dot11 associations` command. You must see the client associated to the SSID.

```
<#root>
```

```
ap#
```

```
show dot11 associations
```

```
802.11 Client Stations on Dot11Radio0  
SSID [Cisco] :
```

MAC Address	IP address	Device	Name	Parent	State
0811.967e.c384	192.168.50.4	ccx-client	ap	self	Assoc

Related Information

- [Cisco Technical Support & Downloads](#)