Cisco WAP Wireless Access Points

Easy Setup Guide

Cisco Start™

SIMPLE SMART SECURE

You can easily set up your WAP
in this step-by-step guide.

1 Connecting WAP
2 Installing FindIT
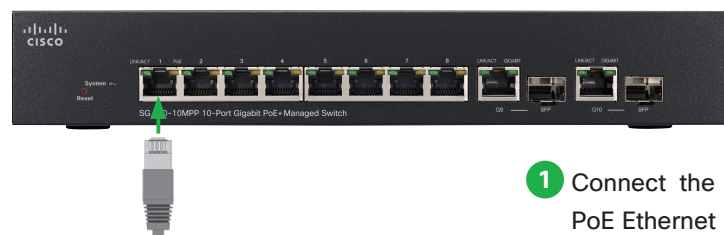3 Configuring WAP

1 Connecting WAP

1-1 Before You Begin

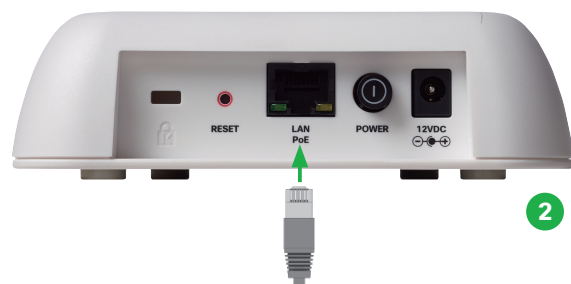Before you begin the installation, make sure that you have the following equipment:

● WAP
● Network Switch with PoE
● Ethernet Cable
● PC

Connect the PC to the same network as the switch.

1-2 Connecting the WAP to the Network

1 Connect the Ethernet cable to the PoE Ethernet port of the switch.

2 Connect the other end of the Ether-net cable to the Ethernet port of the WAP.

⚠ **Caution: Cisco 100/300 Series Wireless Access Points**

If PoE is not provided, plug in the supplied power adapter to provide power to the WAP. The power adapter is supplied with 100 series, sold separately for 300 series. The Gigabit PoE in-jector is available too, this is useful for extended cable runs, or when using a non-PoE switch..
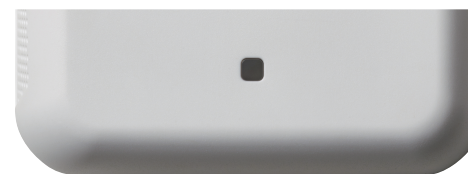
3 Check the state of the LED.

After the LED on the front panel is changed from blinking to lighting, install the Cisco FindIT Network Discovery Utility to the PC by following steps.

📝 **MEMO**

It is recommended to install the Cisco FindIT in this guide. By Cisco FindIT, even if the IP address of the WAP is unknown or changed, you can easily access to the web-based Configuration Utility of WAP.
In addition, you can:

・Access to the web-based Configuration Utility of other devices, such as Cisco Small Business Swicthes and Routers.
・Download new firmware updates to the PC with just a few clicks.
・View basic reports, including inventory, maintenance, and end-of-life reports.
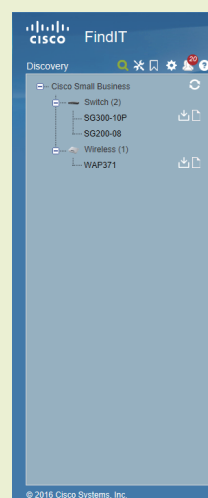
📝 **MEMO**

If you want to configure the WAP without the Cisco FindIT, you must:

・Locate the IP address of the WAP assigned by your DHCP server, and enter the IP address in the web browser.
・Locate the SSID (CiscoSB-Setup) of the WAP by using wireless clients, and use the 'cis-co123' passkey to access the WAP.

After accessing to the web-based Configuration Utility of WAP by any of the methods, proceed to "3-1 Logging in to Configuration Utility", **3**.

2 Installing FindIT

To configure the WAP, use the Cisco FindIT Network Discovery Utility to access to the web-based Configuration Utility. Follow these steps to download the Cisco FindIT from Cisco.com and install it to the PC.
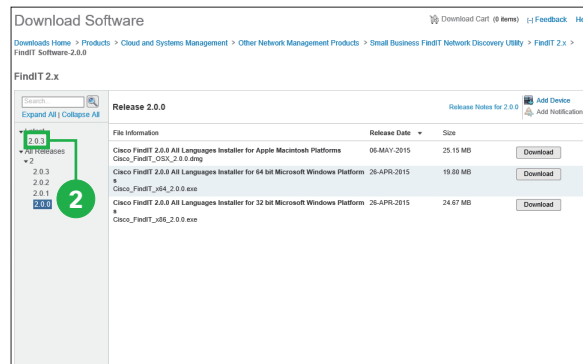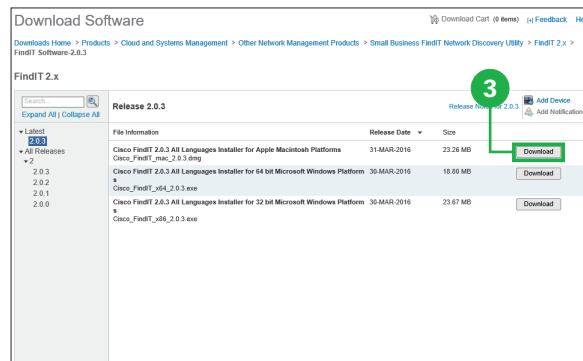
1 Enter the URL into a web browser address bar.

http://www.cisco.com/jp/go/findit/download

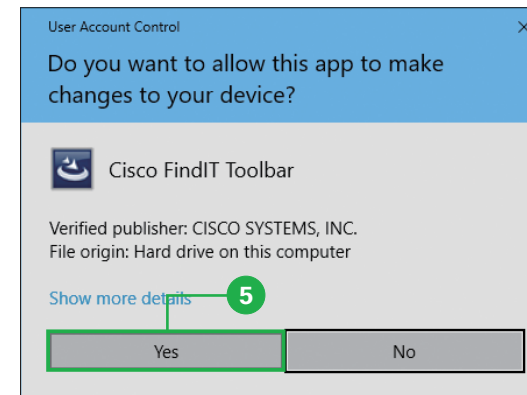**2** Click the latest version under [Latest] on the left pane.

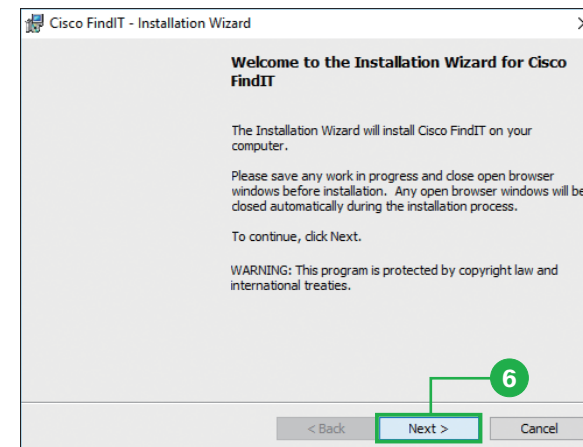**3** Select the appropriate installer for your OS, and click [Download].

> 📝 **MEMO**
> To find out if your computer is running a 32-bit or 64-bit version of Windows, go to [Control Panel] - [System and Security] - [System].

4 Run the installer.

5 Click [Yes].

6 Click [Next].
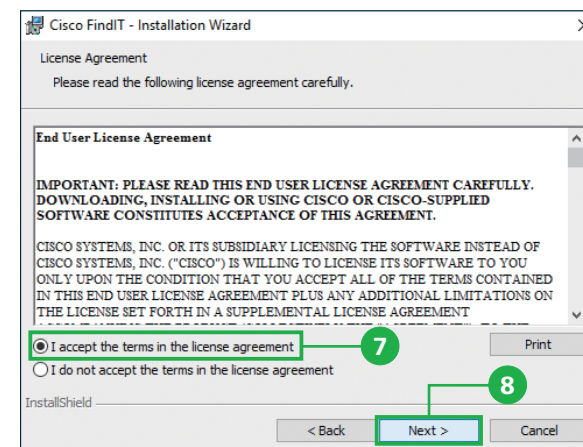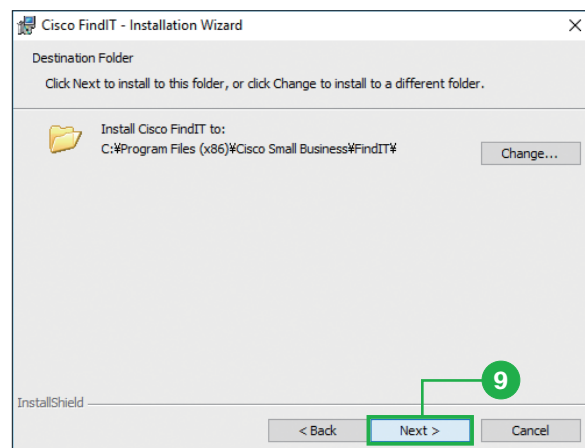
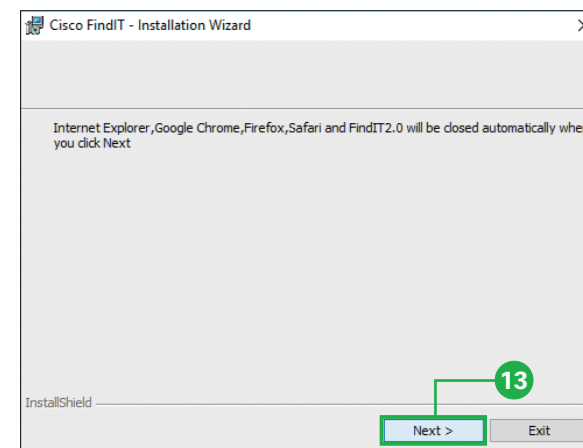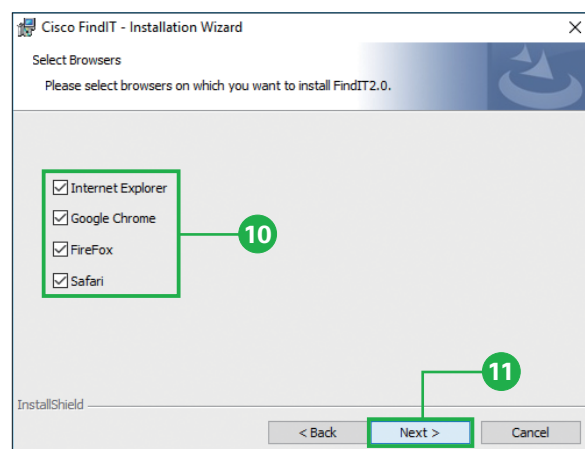**7** Select [I accept the terms in the license agreement].

8 Click [Next].

9 Click [Next].

If you want to change the default installation folder, click [Change] and enter or choose the desired installation folder.
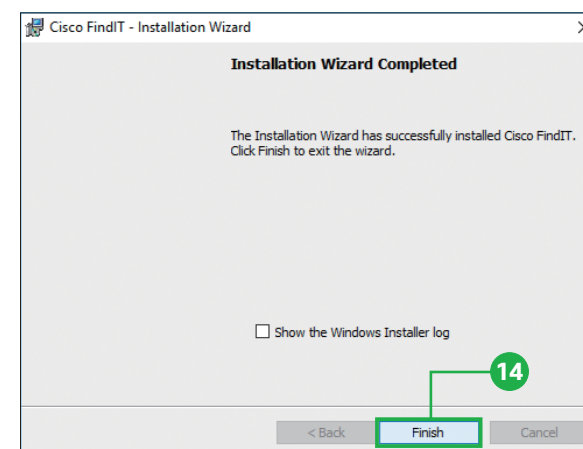
10 Select browsers on which you want to install Cisco FindIT.

11 Click [Next].

12 Click [Install].

13 Click [Next].

Wait until the next window appears.

14 Click [Finish].

After installation is done, launch the Cisco FindIT and configure WAP by following steps.
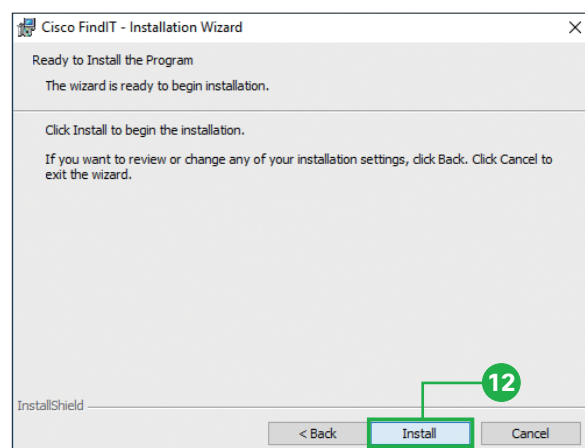
⚠ **Caution**

Your PC must meet the following requirements to run Cisco FindIT.

● Operating system:
  - Microsoft Windows 7, 8, 8.1, or 10
  - Apple OS X 10.8 or later

● Browser
  - Apple Safari Version 7 or later (OS X), or Version 5 or later (Windows)
  - Google Chrome Version 34 or later
  - Microsoft Internet Explorer Version 10 or later
 - Mozilla Firefox 30 or later

3 Configuring WAP

3-1 Logging in to Configuration Utility

Now you can launch the CiscoFindIT with your web browser or from the list of in-stalled applications, and you can easily find and log in to the Configuration Utility of WAP from your web browser
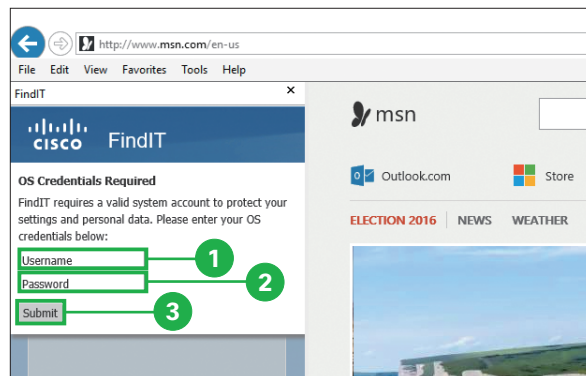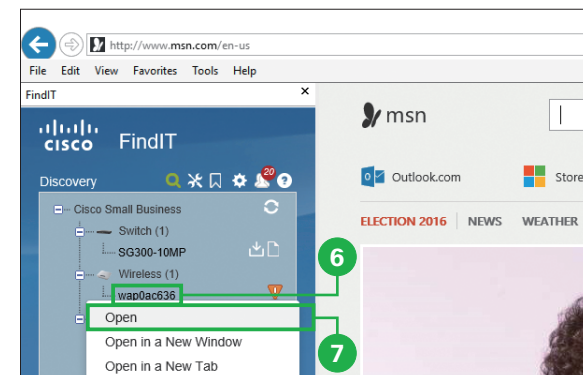
1 Enter your username used for logging in to your OS.

2 Enter your password used for logging in to your OS.

3 Click [Submit].
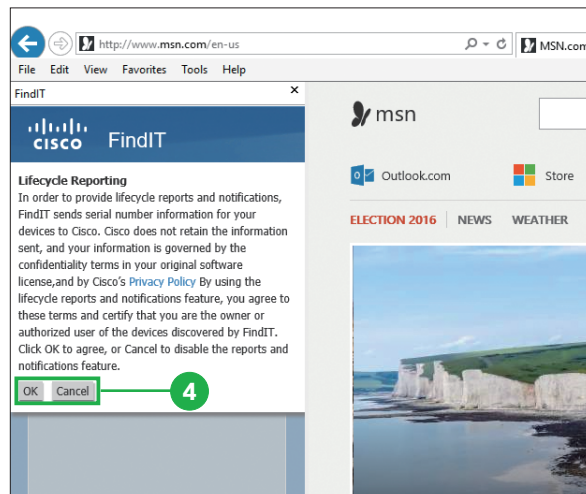
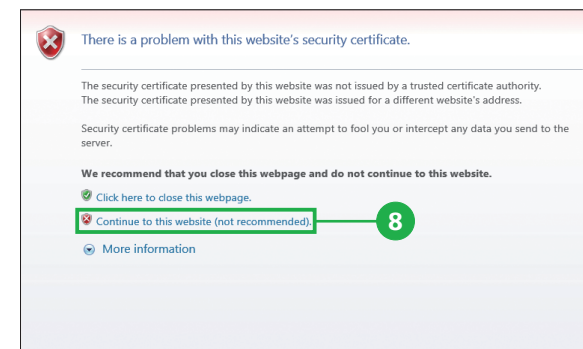**4** Click [OK] to enable "Life-cycle Reporting" or [Can-cel] to disable.
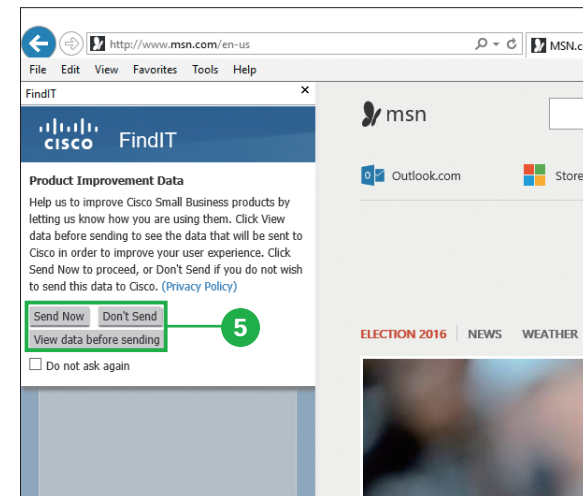
5 Click [Send Now] to help "Product Improvement data" or [Don't send] not to do. You can view data before sending by clicking [View data before send-ing].
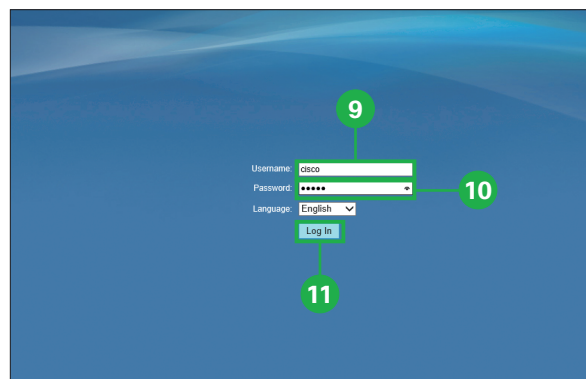
6 Right-click the WAP

The WAP is typically shown as [wap...] under [Wireless] in the Device Discovery sidebar.

7 Click [Open].

8 Click [Continue to this website (not recommend-ed)].

9 Enter "cisco" in the [User-name].

10 Enter "cisco" in the [Pass-word].
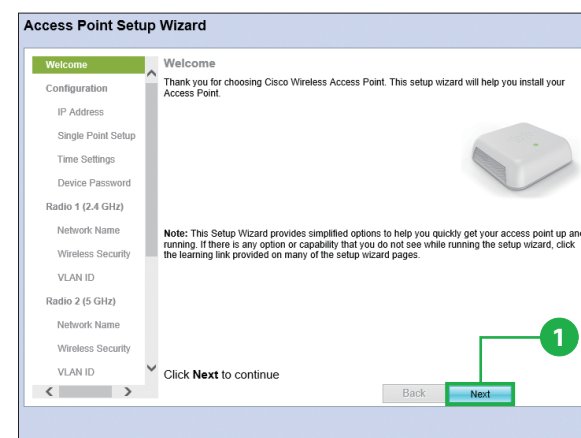
11 Click [Log In].

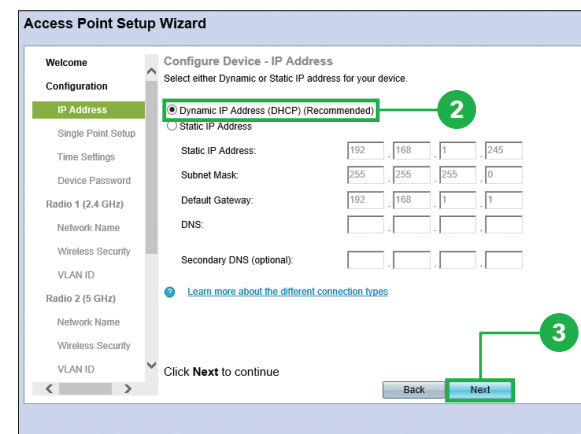The Access Point Setup Wizard window appears.

📝 **MEMO**

The factory default user name and password are **cisco**.

3-2 Configuring Device

After logging in to the Configuration Utility, the Access Point Setup Wizard automatically appears to help you perform initial configuration.

1 Click [Next].

2 Click [Dynamic IP Address (DHCP) (Recommended)].

3 Click [Next].

If you want to configure the IP address manually, click [Static IP Address] and enter the IP information in each fields.

📝 **MEMO**

With Firefox and Internet Explorer, the CiscoFindIT appears in a sidebar adjacent to the content area of the browser. With Chrome, Safari, and the CiscoFindIT application, the CiscoFindIT appears in a separate window.

Access Point Setup Wizard

Single Point Setup -- Set A Cluster

A cluster provides a single point of administration and lets you view, deploy, configure, and secure the wireless network as a single entity, rather than as a series of separate wireless devices.

○ New Cluster Name
Recommended for a new deployment environment.
New Cluster Name:
AP Location:

○ Join an Existing Cluster
Recommended for adding new wireless access points to the existing deployment environment.
Existing Cluster Name:
AP Location:

● Do not Enable Single Point Setup
Recommended for single device deployments or if you prefer to configure each device individually.
Learn more about single point setup

Click **Next** to continue

4 Click [Do not Enable Single Point Setup].

5 Click [Next].

⚠ **Caution: Cisco WAP131**

The WAP 131 does not support the Single Point Setup, skip this step.

Access Point Setup Wizard

Configure Device - Set System Date And Time
Enter the time zone, date and time.

Time Zone: USA (Pacific)

Set System Time: ● Network Time Protocol (NTP)
○ Manually

NTP Server 1: 0.ciscosb.pool.ntp.org
NTP Server 2: 1.ciscosb.pool.ntp.org
NTP Server 3: 2.ciscosb.pool.ntp.org
NTP Server 4: 3.ciscosb.pool.ntp.org
Learn more about time settings

Click **Next** to continue

7 Click [Network Time Protocol (NTP)].

8 Click [Next].

You can also configure the system clock manually.

Access Point Setup Wizard

Configure Device - S
Enter the time zone, date a

Time Zone: USA (Pacific)

Set System Time:

United Kingdom
Uruguay
US Virgin Islands
USA (Alaska)
USA (Aleutian Islands)
USA (Arizona)
USA (Central)
USA (Eastern)
USA (Pacific)
Uzbekistan
Vanuatu
Vatican City
Venezuela
Vietnam
Wake Islands
Wallis & Futana Islands
Western Samoa
Windward Islands
Yemen
Zaire (Kasai)
Zaire (Kinshasa)
Zambia
Zimbabwe

NTP Server 1:
NTP Server 2:
NTP Server 3:
NTP Server 4:
Learn more about

Click **Next** to continue

6 Select the time zone for your location.

Access Point Setup Wizard

Configure Device - Set Password
The administrative password protects your access point from unauthorized access. For security reasons, you should change the access point password from its default settings. Please write this password down for future reference.

Enter a new device password:
New password needs at least 8 characters composed of lower and upper case letters as well as numbers/symbols by default.

New Password: ••••••••••••
Confirm Password: ••••••••••••
Password Strength Meter: Strong
Password Complexity: ☑ Enable
Learn more about passwords

Click **Next** to continue

9 Enter a password in the [New Password].

10 Enter it again in the [Confirm Password].

11 Click [Next].

The Configure Radio 1 - Name Your Wireless Network window appears.

📝 **MEMO**

The Password Complexity enabled by default requires the password to conform to the following complexity settings:

· Is different from the user name.
· Is different from the current password.
· Has a minimum length of eight characters.
· Contains characters from at least three character classes (uppercase letters, lowercase letters, numbers, and special characters available on a standard keyboard).

3-3 Configuring Radio 1

The WAP contains two radios (2.4 GHz & 5 GHz), each radio functions as an independent wireless access point. Configure Radio 1 first, then Radio 2.

1 Enter a SSID in the [Network Name (SSID)].

2 Click [Next].

3 Click [Best Security (WPA2 Personal - AES)].

4 Enter a security key.

5 Click [Next].

6 Enter a VLAN ID.

By default, the VLAN ID assigned to the management interface for your access point is 1.

7 Click [Next].

The Configure Radio 2 - Name Your Wireless Network window appears.

3-4 Configuring Radio 2

Configure Radio 2.

1 Enter a SSID in the [Network Name (SSID)].

2 Click [Next].

> ⚠️ **Caution**
>
> Not all the WAPs have two radios. If you use the WAP121, WAP321 or WAP551, skip "3-4 Configuring Radio 2".

Access Point Setup Wizard

Configure Radio 2 - Secure Your Wireless Network

Select your network security strength.

◉ Best Security (WPA2 Personal - AES)
  Recommended for new wireless computers and devices that support this option.
  Older wireless devices might not support this option.

○ Better Security (WPA/WPA2 Personal - TKIP/AES)
  Recommended for older wireless computers and devices that might not support WPA2.

○ No Security (Not recommended)

Enter a security key with 8-63 characters.

4Klm7fq2sjto   ✕ |||||||| Strong

☑ Show Key as Clear Text

? Learn more about your network security options

Click **Next** to continue

Back | Next

3 Click [Best Security (WPA2 Personal - AES)].

4 Enter a security key.

5 Click [Next].

Access Point Setup Wizard

Configure Radio 2 - Assign The VLAN ID For Your Wireless Network

By default, the VLAN ID assigned to the management interface for your access point is 1, which is also the default untagged VLAN ID. If the management VLAN ID is the same as the VLAN ID assigned to your wireless network, then the wireless clients associated with this specific wireless network can administer this device. If needed, an access control list (ACL) can be created to disable administration from wireless clients.

Enter a VLAN ID for your wireless network:

VLAN ID: 1   (Range: 1 - 4094)

? Learn more about vlan ids

Click **Next** to continue

Back | Next

6 Enter a VLAN ID.

7 Click [Next].

The Enable Captive Portal – Create Your Guest Network window appears.

3-5 | Configuring Guest Network

Use Captive Portal to set up a guest network, which means that wireless users need to be authenticated before they can access the Internet.

Access Point Setup Wizard

Enable Captive Portal - Create Your Guest Network

Use Captive Portal to set up a guest network, which means that wireless users need to be authenticated before they can access the Internet. For example, a hotel can create a guest network to redirect new wireless users to a page for authentication.

Do you want to create your guest network now?

◉ Yes

○ No, thanks.

? Learn more about captive portal guest networks

Click **Next** to continue

Back | Next

1 Click [Yes].

2 Click [Next].

If you do not want to create a guest network, Click [No] and skip to "3-6 Confirming Settings" on the page 19.

Access Point Setup Wizard

Enable Captive Portal - Name Your Guest Network

Your guest network needs a new name, known as a SSID. The name identifies your guest network so that wireless users can find it.

Enter a name for your guest network:

Radio: ◉ Radio 1 (2.4 GHz)
                          ○ Radio 2 (5 GHz)

Guest Network name: ciscosb-guest
                          For example: MyGuestNetwork

? Learn more about network names

Click **Next** to continue

Back | Next

3 Click [Radio 1] or [Radio 2] in which you would like to place the guest network.

4 Enter a SSID in the [Guest Network Name].

5 Click [Next].

Access Point Setup Wizard

6 Click [Best Security (WPA2 Personal – AES)].

7 Enter a security key.

8 Click [Next].

3-6 Confirming Settings

Review the settings that you configured, save and enable them on the WAP.

1 Scroll down to view the settings.

2 Click [Submit].

Wait until Device Setup Complete window appears.

Access Point Setup Wizard

9 Enter a VLAN ID.

10 Click [Next].

> ⚠️ **Caution**
> The guest network VLAN ID should be different from the business VLAN ID. If both the guest SSID and business SSID are on the same VLAN, then clients on these networks can communicate together.

11 Click [Next].

If you want to redirect wireless users to a webpage after they log on to the guest network, check [Enable Redirect URL] and enter the URL.

Access Point Setup Wizard

3 Click [Finish].

Your WAP has been set up successfully.

Access Point Setup Wizard

Appendix | Where to Go From Here

■ Support

● Cisco Support Community

http://www.cisco.com/go/smallbizsupport

● Cisco Support and Resources

http://www.cisco.com/go/smallbizhelp

● Phone Support Contacts

http://www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html

● Cisco Firmware Downloads

http://www.cisco.com/go/smallbizfirmware

● Cisco Open Source Requests

http://www.cisco.com/go/smallbiz_opensource_request

● Cisco Partner Central

http://www.cisco.com/web/partners/sell/smb

● Cisco Online Device Emulators

http://www.cisco.com/go/onlinedevicemanagers

■ Product Documentation

● Cisco 100 Series Wireless Access Points Administration Guide

http://www.cisco.com/go/100_wap_resources

● Cisco 300 Series Wireless Access Points Administration Guide

http://www.cisco.com/go/300_wap_resources

● Cisco 500 Series Wireless Access Points Administration Guide

http://www.cisco.com/go/500_wap_resources

● Cisco Wireless Accessories

http://www.cisco.com/go/wap_accessories