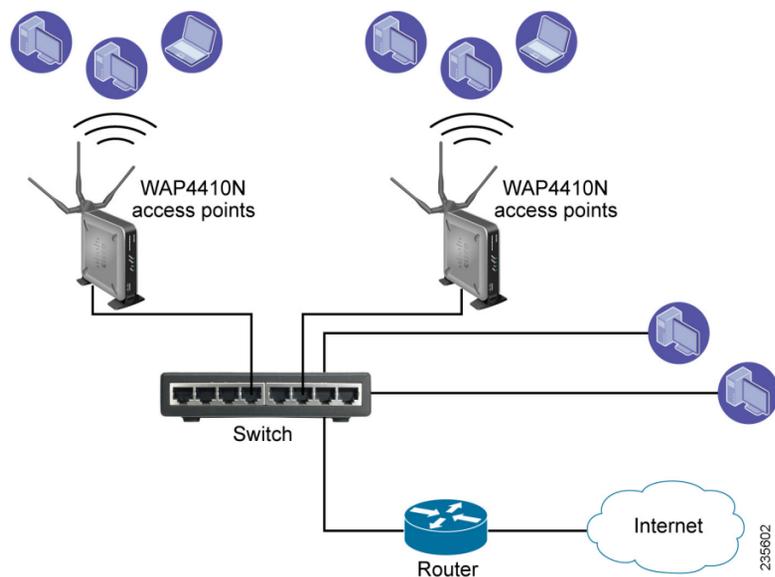**ı|ııı|ıı
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Quick Start Guide

Cisco Small Business
Model WAP4410N
Wireless-N Access Point with Power Over Ethernet

Package Contents

- WAP4410N Wireless Access Point
- Detachable Dipole Antennas (3)
- Power Adapter
- Desktop Stands (2)
- 5-Foot Category 5 Ethernet Cable (1.5 meters)
- Administration Guide on CD-ROM

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1 Product Overview

The WAP4410N Access Point enables you to add Wireless-N (802.11n) devices to your network without so much as a power plug. The WAP4410N allows for greater range and mobility within your wireless network while also allowing you to connect the wireless network to a wired environment, as shown in the following sample wireless network setup.

The WAP4410N Access Point supports the 802.11n Draft 2.0 Specification by IEEE. It also support 802.11g and 802.11b clients in a mixed environment. This access point can support 802.11n connections, which are much faster than the earlier 802.11b/g technologies. In addition, this access point provides longer coverage by using multiple antennas to transmit and receive data streams in different directions.

Use the instructions in this Quick Start Guide to install and perform the initial setup of the access point. More detailed setup and configuration instructions are in the *WAP4410N Wireless-N Access Point with Power Over Ethernet Administration Guide*, which you can get from Cisco.com, as indicated in Section 4, "Where to Go From Here."

Front Panel

The LEDs of the access point on the front panel display information about network activity.

POWER LED—(Green) Lights up and remains lit when the access point is powered on.

PoE LED—(Green) Lights up when the access point is powered through an Ethernet cable.

WIRELESS LED—(Green) Lights up when the wireless module is active on the access point. This LED flashes when the access point is actively sending to or receiving data from a wireless device.

ETHERNET LED—(Green) Lights up when the access point successfully connects to a device through the Ethernet network port. This LED flashes when the access point is actively sending to or receiving data from one of the devices over the Ethernet network port.

Back Panel

The ports of the access point are located on the back panel of the switch.

RESET Button—There are two ways to reset the access point to the factory default configuration. Either press the Reset button for approximately 10 seconds or restore the defaults using the web-based utility of the access point.

ETHERNET Port—Connects to Ethernet network devices, such as a switch or router that may or may not support PoE.

POWER Port—Connects the access point to power using the supplied 12VDC power adapter.

WAP4410N Access Point Antennas

The WAP4410N Access Point has three detachable 2dBi omni-directional antennas. These antennas are located on the back of the device.

The three antennas have a base that can rotate 90 degrees when in the standing position. The three antennas support 3X3 "multiple in, multiple out" (MIMO) diversity in wireless-N mode.

Placement Options

You can place the WAP4410N Access Point horizontally on its rubber feet, vertically in a stand, or mount it on the wall.
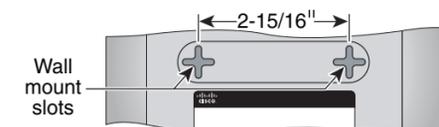
Desktop Option

For desktop mounting, place the access point horizontally on a surface so it sits on its four rubber feet.

Wall-Mount Option

To mount the WAP4410N Access Point on a wall, follow these steps.

STEP 1 Determine where you want to mount the WAP4410N Access Point and install two screws (not supplied) that are 2-15/16 inches apart (approximately 7.46 cm.).

STEP 2 With the back panel pointing up (if installing vertically), line up the WAP4410N Access Point so that the wall-mount crisscross slots on the bottom of the access point line up with the two screws.

Wall mount slots
← 2-15/16" →

STEP 3 Place the wall-mount slots over the screws and slide the WAP4410N Access Point down until the screws fit snugly into the wall-mount slots.
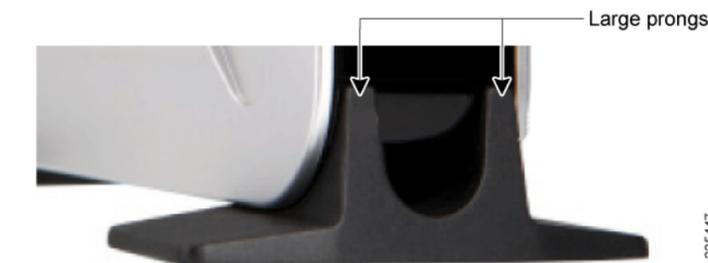

Stand Option

To place the access point vertically in a stand, follow these steps.

STEP 1 Locate the left side panel of the WAP4410N Access Point.

STEP 2 With the two large prongs of one of the stands facing outward, insert the short prongs into the little slots in the WAP4410N Access Point, and push the stand upward until the stand snaps into place.
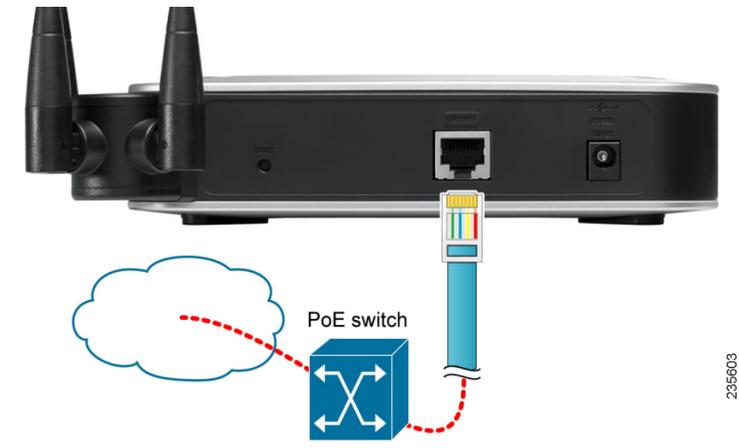
Repeat this step with the other stand.

Large prongs

2 Connecting the WAP4410N Access Point to the Network

You can connect the WAP4410N Access Point to your network in one of the following ways:

- Using a PoE switch
- Using a standard switch

Using a PoE Switch to Connect the WAP4410N to the Network

To connect the WAP4410N Access Point to your network using a PoE switch, simply connect the Ethernet port of the access point to a PoE port on the PoE switch.
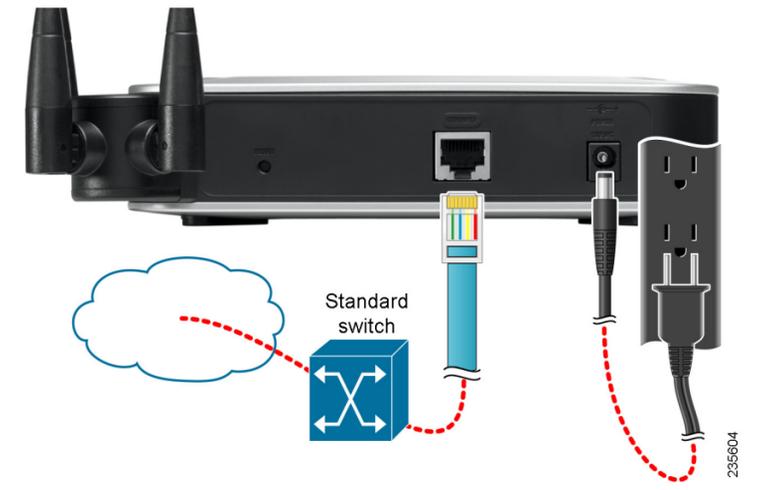
PoE switch

The LEDs on the front panel light up as soon as the WAP4410N Access Point powers on.

Using a Standard Switch to Connect the WAP4410N to the Network

To connect the WAP4410N Access Point to your network using a standard switch, follow these steps.

STEP 1 Use the supplied Ethernet cable to connect the Ethernet port of the access point to an Ethernet port on the switch.

STEP 2 Connect the included power adapter to the Power port of the WAP4410N Access Point.

STEP 3 Plug the power adapter into an electrical outlet.

Standard switch

The LEDs on the front panel light up as soon as the WAP4410N Access Point powers on.

3 Configuring the Device

The firmware v2.0.0.5 or later releases changed the factory default IP address configuration to DHCP. Before installation, make sure your DHCP server is running and can be reached. You may need to disconnect and reconnect the devices for them to discover their new IP addresses from the DHCP server.

If the WAP4410N access point does not receive a DHCP response after 60 seconds, it falls back to the following default static IP address: 192.168.1.245 and a default mask of 255.255.255.0.

Launching the Web-Based Configuration Utility

To configure the WAP4410N Access Point, follow these steps to access the WAP4410N web-based configuration utility from your computer.

STEP 1 Connect the WAP4410N Access Point to the same network as your computer.

STEP 2 Locate the IP address of the WAP4410N Access Point by accessing your DHCP server. Specific instructions on locating the DHCP address given to the WAP4410N Access Point depends upon the type of architecture and operating system you are using. Use your computer's local Help and Support functionality and search for "IP Addressing".

STEP 3 Launch a web browser, such as Internet Explorer or Mozilla Firefox.

STEP 4 In the Address field enter the default DHCP address and press the **Enter** key.

STEP 5 In the User Name and Password fields enter the default of **admin**.

STEP 6 Click **Log in**.

Upgrading the Firmware

To upgrade the firmware of the WAP4410N Access Point:

STEP 1 Download the firmware upgrade file from:

www.cisco.com/en/US/products/ps10052/index.html

STEP 2 In the configuration utility, Click **Administration > Firmware Upgrade**.

STEP 3 Click **Browse**, select the firmware upgrade file, and click **OK**.

STEP 4 Click **Upgrade** and follow the on-screen instructions.

Configuring the Access Point

When you access the device using the web-based configuration utility for the first time or after a firmware upgrade, you should change the default password to protect it from unauthorized use. Additionally, depending on your deployment requirements, you might need to change some of the configuration parameters of the access point.

For more information on how to change the password and configure the access point, refer to the *WAP4410N Wireless-N Access Point with Power Over Ethernet Administration Guide*. This guide is on the CD-ROM that comes with the product. You can also access this guide and other related documentation on Cisco.com, as indicated in the next section.

4 Where to Go From Here

Resource	Location
Technical Documentation	www.cisco.com/en/US/products/ps10047/tsd_products_support_series_home.html
Firmware Downloads	www.cisco.com/en/US/products/ps10052/index.html
Customer Support	www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html
Warranty and End User License Agreement	www.cisco.com/go/warranty
Open Source License Notices	www.cisco.com/go/osln
Regulatory Compliance and Safety Information	www.cisco.com/en/US/products/ps10047/tsd_products_support_series_home.html
Cisco Partner Central site for Small Business	www.cisco.com/web/partners/sell/smb