Configuring the Features of the Access Point

This chapter provides the following information:

Configuring the Wireless LAN Controller IP Address on the Access Point

Follow these steps to configure the IP address of the Wireless LAN Controller on your Cisco Aironet 600 Series OfficeExtend access point.

Step 1 Obtain the IP address of your Wireless LAN controller from your company's IT professional.

Step 2 Access the 600 Series OfficeExtend access point GUI as described in "Accessing the GUI" section on page 2-1.

Step 3 Click the **Configuration** tab.

The Configuration page is dispalyed.

Step 4 From the Configuration page, click the **WAN** tab.

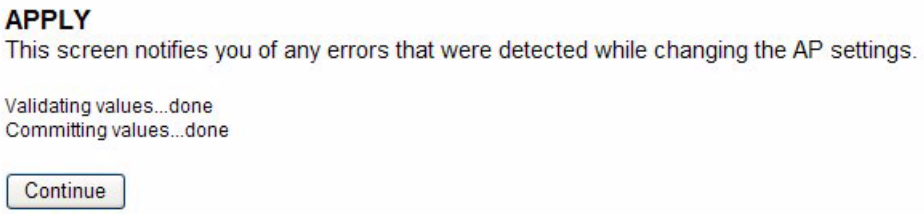
The WAN page is displayed.

Step 5 Enter the IP address of the primary controller in the **Controller IP Address** field.

Step 6 Leave the Static IP check box unchecked to allow the WAN IP address to be assigned by DHCP.

Step 7 Click **Apply** to commit your changes.

A verification screen that is similar to the following, is displayed.



Step 8 Click **Continue**.

The 600 Series OfficeExtend Access point will connect to the controller and download the current software image. Allow the device 5 minutes to download and reboot with the new code and configuration.

Configuring Radio Channels on the Access Point

Follow these steps to configure a radio channel for your 600 Series OfficeExtend access point.

Step 1 Access the 600 Series OfficeExtend access point GUI as described in "Accessing the GUI" section on page 2-1.

Step 2 Click the **Configuration** tab.

The Configuration–System page is displayed.

Step 3 From the **Radio Interface** drop-down list, choose the desired radio interface, which can be either 2.4 GHz or 5 GHz.

Step 4 From the **Status** drop-down list, choose **Enabled** to enable the wireless interface.

Step 5 From the **Channel Selection** drop-down list, choose the channel on which this interface will operate.

Note 802.11n mode should be enabled by default. If it is disabled, choose **Enabled** from the **802.11 n-mode** drop-down list.

Step 6 Click **Apply** to commit your changes.

Configuring Personal Wireless LANs

Step 1 Access the 600 Series OfficeExtend access point GUI as described in "Accessing the GUI" section on page 2-1.

Step 2 Click the **Configuration** tab.

The Configuration–System page is displayed.

Step 3 Click the **SSID** tab.

The Configuration–SSID page is displayed.

Step 4 From the **Band Selection** drop-down list, choose the band, which can be either 2.4 GHz or 5.0 GHz. You can duplicate the configuration on both bands, or have different settings on each band.

Step 5 Check the **Enabled** check box to enable this wireless connection. By default it is disabled.

Step 6 Check the **Broadcast** check box to broadcast the SSID over the air. By default it is unchecked.

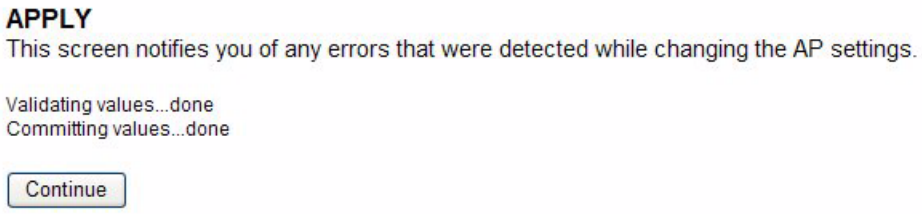
Step 7 In the **SSID** field, enter the personal SSID that you want to assign to this access point. This SSID will be locally switched. The default SSID is *AIR-602* for both radios.

Note Your personal SSID Wireless LAN and your company SSID Wireless LAN are different. When you configure your personal Wireless LAN, use an SSID name that is different from your company's SSID to help avoid confusion.

Step 8 From the Security drop-down boxes, enter the authentication type, encryption type, and passphrase. It is suggested that you select **WPA2-PSK** and **AES** encryption.

Step 9 Click **Apply** to commit your changes.

A verification screen that is similar to the following, is displayed.



Step 10 Click **Continue**.

Troubleshooting

Problem	LED Status	Reasons	Possible Solution
Private WLAN clients can connect to the Internet; but WLANs provided by the controller are unable to connect or not being broadcast.	LED cycling through purple and orange with client associated; LED cycling with purple, orange, and blue with no client associated.	Access Point is in CAPWAP Discovery mode.	Verify that the correct Wireless LAN Controller IP address is entered in the WAN page of the 600 Series; verify that CAPWAP ports are allowed through the personal firewalls if any are present on a router between the 600 series and the modem.
WLANs provided by the controller are not broadcast or clients are unable to connect.	Blinking blue	Software Upgrade in Process.	Wait for 600 series to finish code download and perform an automatic reboot.
No connectivity is available through 600 Series access point.	Blinking orange	No IP address on the 600 Series access point, waiting for DHCP address.	Restart your home router/gateway or modem followed by your 600 Series access point.
No connectivity is available through 600 Series access point, local GUI unavailable, or other issues.	Orange	Software Failure	Disconnect and reconnect power to the 600 Series access point.
The access point signal strength is low.	Not applicable	The access point may not be in the optimal position in relation to your device(s). If the access point is in close proximity and above your device, the signal may become skewed.	Position the access point lower than or with the LED side facing your devices.

Using the Split Tunneling Feature for Local Printing

The Split Tunneling feature of the Cisco Aironet 600 Series OfficeExtend Access Point allows you to use a local printer that is on your personal network, while being connected to a corporate VPN.

Any printer installed as your local printer can utilize the Split Tunneling feature if all these conditions are met:

- You are connected to the corporate WLAN or a Remote LAN, via an access point group that provisions a Cisco Aironet 600 Series OfficeExtend Access Point.
- The Split Tunneling feature has been enabled globally for all Cisco Aironet 600 Series OfficeExtend Access Point connected to the WLC, and also for both WLAN and Remote LAN.

  For information on configuring the Split Tunneling feature for a WLAN or a Remote LAN, see the Cisco Wireless LAN Controller Configuration Guide.

Prerequisites for Adding a Local Printer

Before adding a local printer to your personal network, ensure that:

- The printer can be configured using one of the following network printing protocols via the corresponding port:
  - IPP (port :631)
  - PDL (port :9100)
  - MFP (port :9303)
  - LPD, LPR (port :515)
  - PSUS4 (port :34443)
  - Generic printer server (port :35)
- The latest compatible driver for the printer is installed.

Adding the Local Printer in Windows

If you are a Microsoft Windows user, follow these steps to add a local printer to your personal network.

Step 1 Find out the name of the local printer you want to configure.

If the printer does not have a GUI for configuration, access http://<*Printer-IP*>:<*Port*>/ to find out the name from the Printer Details page.

Step 2 In the configuration page, ensure that printing from other subnets is enabled.

Step 3 For printers that support IPP, first activate the Internet Printing Client:

a. From the Windows **Control Panel,** open > **Programs and Features**.

b. Click **Turn Windows Features on or off**.

The **Windows Features** dialog box is displayed.

c. Under **Print and Document services**, check the **Internet Printing Client** check box.

Then, follow these steps to add the local printer:

a. From the Windows **Start** menu, click **Devices and Printers**.

b. Click **Add a Printer.**

c. In the dialog box that is displayed, click **Add a network, wireless or Bluetooth printer.**

d. Click **The printer I want isn't listed.**

e. Click the **Select a shared printer by name** radio button.

f. If you have the printer's exact shared name with URL, enter it in this format:

http://<*Printer-IP*>:631/<*share-path*>/<*Printer-Name*>

If you do not have the printer's name with URL, enter http://xxxxxxx:631, and click **Browse** to browse for and select the printer.

g. Click **Next**.

Step 4 Select the printer driver from the list of drivers shown.

Note As required in the prerequisites, if you have already installed the printer driver locally, the driver will be listed here. If you have not installed the printer driver, click **Have Disc...** to browse for and install the driver file.

Step 5 Click **Next**.

The printer configuration is complete.

Adding the Local Printer in Mac OS

If you are an Apple Mac OS user, follow these steps to add a local printer to your personal network.

Step 1 Find out the IP address of the local printer that you want to configure.

Step 2 From the **Apple** menu, choose **System Preferences.**

The System Preferences dialog box is displayed.

Step 3 Click **Show All.**

Step 4 In the **Hardware** area, click **Print & Fax.**

The Print & Fax dialog box is displayed.

Step 5 Click the **+** (plus) icon that is below the **Printers** list.

The Add Printer dialog box is displayed.

Step 6 Click **IP**.

Step 7 From the Protocol pop-up menu choose the printing protocol that is supported by the local printer.

Of the printing protocols supported by the Split Tunneling feature, the Mac OS X operating system supports only the following:

- Internet Printing Protocol (IPP)
- Line Printer Daemon/Line Printer Remote protocol (LPD, LPR)

Step 8 In the **Address** field, enter the IP address of the printer.

Step 9 From the **Print Using** pop-up menu, choose **Select Printer Software**.

Step 10 Choose the printer driver for your printer from the list displayed, and then click **OK**.

Step 11 Click **Add**.

The added printer appears in the Printers list on the Print & Fax dialog box.