



Cisco Aironet 600 Series OfficeExtend Access Point User Guide

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Preface

The Preface describes the audience, organization, and conventions of this document. It also provides information on how to obtain other documentation. It includes the following sections:

- Audience, page v
- Document Organization, page v
- Conventions, page vi
- Related Documentation, page vi

Audience

This document is for experienced network administrators who configure and maintain Cisco wireless LAN controllers and Cisco lightweight access points. It also contains information useful to users who connect to a network via a Cisco Aironet 600 Series OfficeExtend Access Point.

Document Organization

The following table describes the contents of each chapter in this document:

Table 1Document Orga	anization
Chapter and Title	Description
Chapter 1, "Unpacking and Installing the Access Point"	This chapter provides information on unpacking and installing the access point. It also gives you instructions on placement, and a description of the parts of the access point.
Chapter 2, "Access Point GUI"	This chapter describes the various pages in the access point's GUI.
Chapter 3, "Configuring the Features of the Access Point"	This chapter provides information on how to configure the features provided by the access point.
Chapter 4, "Declarations of Conformity and Regulatory Information"	This chapter contains declarations of conformity and regulatory information for the Cisco Aironet 600 Series OfficeExtend Access Point.
Appendix A, "Open Source Software Licenses and Notices"	This appendix contains the licenses and notices for open source software used in the Cisco Aironet 600 Series OfficeExtend Access Point

Conventions

The following table describes conventions used in this document:

 Table 2
 Command Syntax Guide

Convention	Description
boldface	Commands and keywords.
italic	Command input that is supplied by you.
[]	Keywords or arguments that appear within square brackets are optional.
{ x x x }	A choice of keywords (represented by x) appears in braces separated by vertical bars. You must select one.
^ or Ctrl	Represent the key labeled <i>Control</i> . For example, when you read ^ <i>D</i> or <i>Ctrl-D</i> , you should hold down the Control key while you press the D key.
screen font	Examples of information displayed on the screen.
boldface screen font	Examples of information that you must enter.
< >	Nonprinting characters, such as passwords, appear in angled brackets.
[]	Default responses to system prompts appear in square brackets.

Note

Means reader needs to take note. Notes contain helpful suggestions or references to material not covered in the manual.



Means the following information will help you solve a problem.



Means reader needs to be careful. In this situation, you might perform an action that could result in equipment damage or loss of data.

Related Documentation

In addition to the information provided in this publication, you might need to refer to the the following documents:

• Cisco Wireless LAN Controller configuration guides.

http://www.cisco.com/en/US/products/ps10315/products_installation_and_configuration_guides_l ist.html

- Cisco Wireless LAN Controller command references. http://www.cisco.com/en/US/products/ps10315/prod_command_reference_list.html
- Cisco Wireless LAN Controller System Message Guide.

http://www.cisco.com/en/US/products/ps10315/products_system_message_guides_list.html

• Release Notes for Cisco Wireless LAN Controllers and Lightweight Access Points. http://www.cisco.com/en/US/products/ps10315/prod_release_notes_list.html



Unpacking and Installing the Access Point

This chapter provides the following information:

- Unpacking the Access Point, page 1-1
- Placing the Access Point, page 1-1
- Parts of the Access Point, page 1-3
- Installing the Access Point, page 1-4
- Resetting the Access Point, page 1-5
- Understanding the Access Point LEDs, page 1-5

Unpacking the Access Point

Each Cisco Aironet 600 Series OfficeExtend Access Point package contains the following items:

- Cisco Aironet 600 Series OfficeExtend Access Point
- Ethernet Cable
- Cisco Aironet AP600 Series Power Module (universal power supply)
- Quick reference guide
- Cisco product registration and Cisco documentation feedback cards

Placing the Access Point

To ensure the best RF coverage for your access point, place your access point in an area as close to the wireless clients as possible and practical to do so.

If the internet source or gateway router is in a remote area, position your access point away from metal obstructions.

The access point can be placed/mounted in a horizontal position, as the access point has rubber feet on its bottom panel.

The access point may also be mounted in a vertical position using the supplied cradle or wall mounted slots.



The distance between the mounting hole slots is 158.75 mm (6.25 in).

Areas to avoid or places that may result in reduced range or performance are as follows.

- In a basement of a multi-story home, as the signals must penetrate many walls.
- Near large obstructions that can block the radio signals. Avoid areas like metal cabinets or refrigerators.
- On the floor under a metal desk or other dense or conductive objects.



Cisco is not responsible for damages occurred by unsecured wall-mounting hardware.

Parts of the Access Point



1	Local Ethernet LEDs 1 through 3	8	WAN Port
2	Remote LAN LED	9	Remote LAN Port
3	Status LED	10	Local Ethernet Ports 1 through 3
4	Wireless LED	11	Reset Button
5	WAN LED	12	Power Toggle Switch
6	USB LED (future)	13	Power Connector
7	Power Indicator LED		

Installing the Access Point

To install the Cisco Aironet 600 Series OfficeExtend Access Point, follow these steps:

- **Step 1** Plug one end of the Ethernet cable into the Ethernet port of your home router/gateway.
- Step 2 Insert the other end of the Ethernet cable into the WAN port of the 600 Series OfficeExtend Access Point.



Note The 600 Series OfficeExtend Access Point has different power requirements than other Cisco enterprise access points, and this unit will be damaged if incorrect power is applied. Please refer to the 600 Series OfficeExtend Access Point specifications for power supply requirements.

- Step 3 Insert the power cord into the power connector of the 600 Series OfficeExtend Access Point.
- **Step 4** Plug the other end of the power cord into your power source.
- **Step 5** Press the power toggle switch on the access point to the ON position.



Step 6 Use the 600 Series OfficeExtend Access Point LED table (Table 1-1 on page 1-5) to understand the LEDs located on the top panel of the access point.



The process of connecting the 600 Series OfficeExtend Access Point should only take 1 to 2 minutes. Your unit may require a software image download. If so, once the connection is made, the Status LED on the top of the unit will flash blue. The Status LED continues flashing until download is complete. When the download is complete, your access point will restart. Once connected to the controller, the Status LED will display a solid blue or purple.

Step 7 If your IT administrator has not pre-provisioned the 600 Series Office Extend AP with the IP address of the Primary Wireless LAN Controller, please follow the steps in the procedure "Configuring the Wireless LAN Controller IP Address on the Access Point" section on page 3-1, to configure this address.



You do not need to configure any SSIDs for your 600 Series OfficeExtend Access Point to connect to your company network. The access point receives the company SSID when it connects to the company network by way of the Internet. If you have problems connecting to your company network, contact your IT administrator. You can configure your local SSID Wireless LAN for other devices. See "Configuring Radio Channels on the Access Point" section on page 3-2 for more information.



Cisco Aironet 600 Series OfficeExtend access points are designed to work behind a router or other gateway device that is using network address translation (NAT). NAT allows a device, such as a home router or gateway, to act as an agent between the Internet (public) and a personal network (private), thereby enabling an entire group of computers to be represented by a single IP address. Only one Cisco Aironet 600 Series OfficeExtend access point can be deployed behind a single NAT device.

Resetting the Access Point

To reset a 600 Series OfficeExtend AP, while the unit is powered on, hold the reset button down for 5 seconds to restart the unit. Then hold the reset button down for 20 seconds to clear the configuration and restart the unit with the factory default settings.

Understanding the Access Point LEDs

The LEDs on the top panel indicate the operating status of the unit. Table 1-1 provides LED status indications for 600 Series OfficeExtend Access Points. A properly functioning and configured AP transitions from blinking blue to solid within ten minutes. Usually the time will be much shorter.

Status LED Meaning Purple Association status, when CAPWAP is connected: Normal operating condition, but no wireless client associated. Blue Association status, when CAPWAP is connected: Normal operating condition, at least one wireless client association. Flashing blue Operating Status: Software upgrade in progress. Flashing orange Operating Status: No IP address, waiting for DHCP IP. Cycling through purple, orange, and Operating Status: Discovery/join process in progress, no blue client associated. Cycling through purple, orange Operating Status: Discovery/join process in progress, with client associated. Cisco IOS errors: Software failure; try disconnecting and Orange reconnecting unit power.

Table 1-1 LED Status Indications for 600 Series OfficeExtend Access Points

Γ

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Access Point GUI

This chapter provides the following information:

- Accessing the GUI, page 2-1
- Access Point GUI Overview, page 2-3
- Home Page, page 2-3
- Configuration Page, page 2-4
- Event Log Page, page 2-7

Accessing the GUI

Follow these steps to access the Cisco Aironet 600 Series OfficeExtend access point GUI.

Step 1 Connect your laptop to the local Ethernet port 1, 2, or 3 on the 600 Series OfficeExtend access point.



Ethernet port 4 (Remote LAN port) may not be used to configure the 600 Series OfficeExtend access point.

Step 2 With the 600 Series OfficeExtend access point connected to your home router/gateway as described in the procedure "Installing the Access Point" section on page 1-4, enter the IP address of the 600 Series OfficeExtend access point in the Address field of your Internet browser (http://<ap-ipaddress>) and click Go.



The default IP address is 10.0.0.1.

<u>Note</u>

Make sure your laptop is not connected to your company's network using a virtual private network (VPN) connection.

The 600 Series Office Extend Access Point Login page is displayed.

Connect t	o 10.0.0.1	? 🔀
		GA
username and pa Warning: This se	rver is requesting that yo t in an insecure manner (our username and
User name:	ß	*
Password:		
	Remember my p	assword

Step 3 When prompted, enter the username and password to log into the access point.



The default username and password are *admin* and *admin*.

The 600 Series OfficeExtend Access Point Welcome page is displayed.



Step 4 On the 600 Series OfficeExtend Access Point Welcome page, click **Enter**. The 600 Series Office Extend Access Point Home page is displayed.

lleme Comment						
Home: Summary						
General Informati	on					
Ap Name		tedamico-e	evora			
AP IP Address		192.168.1	.4			
AP Mode		Local				
AP MAC Address		C0:C1:C0	:05:45:E8			
AP Uptime		19 minutes	s, 15 seconds			
AP Software Version		7.0.114.87	7			
AP Statistics						
Radio	Admin Status		Freq/Chan	Tx Power	Pkts In/Out	Bytes In/Ou
Radio-802.11G	up		2.4 GHz/6	18.50dBm	0/750	0/61627
Radio-802.11A	up		5 GHz/149	15.50dBm	6/752	1156/6282
Association						
Client MAC	As	sociation Time	Bytes In/Out	Duplica	te/Retries	Decrypt Faile
00:21:6A:AB:09:FE	00	:05:55	20480/1024	0/2		0

Access Point GUI Overview

The GUI of the Aaccess Point has four major sections:

- HOME—This page shows general information about the AP settings and a summary of the statistics.
- CONFIGURATION—This page is a multi-tab page which allows the user to configure different options like personal SSID, local DHCP server, etc.
- EVENT LOG—This page provides the user the ability to view the logged errors and ability to clear the log.
- HELP—This displays help for the pages listed above, especially the Configuration page.

Home Page

The Home page shows the access point name, IP address, AP mode, MAC address, AP uptime, and software version.

This page also reports radio-specific information including status, frequency/channel, transmit power, number of packets in and out, and number of bytes in and out.

For each connected client, this page reports the client MAC address, elapsed association time, number of bytes in and out, number of duplicates and retries.

Configuration Page

The Configuration page has multiple tabs to allow the user to configure different options.

Wherever applicable, default values will be shown.

The main options that can be configured on this page are:

- System
- SSID
- Local DHCP Server
- Wireless Access Network (WAN)

System Tab

The Configuration System page displays general system information, such as username and password for the access point and radio interface information.

սիսիս					<u>R</u> efresh Close <u>W</u> indow
CISCO	<u>H</u> OME	<u>CONFIGURATION</u>	<u>E</u> VENT_LOG	HELP	
Configuration	1				Apply
System	SSID	DHCP	WAN		
Login Username		admin			
Password		••••	2		
Radio Radio Interface		2.4 GHz 🗸 (i) S	Select Each Radio and Co	nfigure Independently	
Status		Enabled V		ingure independency	
Channel Selection		Auto 🗸			
802.11 n-mode		Enabled 💌 (i)	802.11n is not supported	with TKIP-only WPA Encryption	
Bandwidth		20 MHz 🗸			

SSID Tab

The Configuration SSID page contains the fields necessary for you to configure and set up security for your personal SSIDs.

Configuration					Apply
System	SSID	DHCP	WAN		
Personal Networ	ĸ				
Band Selection		2.4 GHz 👻 🕕	Select Each Radio and C	onfigure SSID Individually	
Enabled					
Broadcast					
SSID		AIR-602	(i) Persor	al SSID should be different from Corpora	ate SSID
MAC Filter					
Enabled					
Allowed MAC Address	es	e.g.00:1D:E0:34:E2:1F			
Security					
WPA-PSK		Disabled 💙			
WPA2-PSK		Disabled Y			
WEP Encryption					
WPA Encryption					
WPA passphrase		AES 💙	Click here to display		
Network Key 1			Click Here to display		
Network Key 2 Network Key 3					
Network Key 4					
			Chall have be all		
Current Network Key		1 ~	Click nere to di	<u>splay Network Keys</u>	

DHCP Tab

The Configuration DHCP page contains the fields necessary for you to change your DHCP scope.

cisco	<u>H</u> OME	<u>C</u> ONFIGURATION	<u>E</u> VENT_LOG	<u>H</u> ELP	<u>R</u> efresh Close <u>W</u> indo
Configuration					Apply
System	SSID	DHCP	WAN		
Local DHCP					
IP Address		10.0.0.1 255.255.255.0			
IP Address Subnet Mask Default Gateway		255.255.255.0 10.0.0.1			
IP Address Subnet Mask Default Gateway DHCP Server	dress	255.255.255.0 10.0.0.1 Enabled			
IP Address Subnet Mask Default Gateway		255.255.255.0 10.0.0.1			

WAN Tab

The Configuration WAN tab contains the fields necessary for you to configure the IP address of the Wireless LAN controller on your access point.

ျ၊ျ၊ cisco	<u>H</u> OME	<u>CONFIGURATION</u>	EVENT_LOG	<u>H</u> ELP	<u>R</u> efresh Close <u>W</u> ind
Configuration					Apply
System	SSID	DHCP	WAN		
Controller					
IP Address		1.1.1.1			
Uplink IP Config	uration				
Static IP					
Domain Name		home			
IP Address		192.168.1.4			
Subnet Mask:		255.255.255.0			
Default Gateway		192.168.1.1			
DNS Server		192.168.1.1			

Event Log Page

The Event Log page displays all logged events and has a button to clear the log. The Event Log page is shown below:

ululu cisco	HOME	CONFIGURATION	EVENT_LOG	HELP	<u>R</u> efresh Close <u>W</u> indov
CISCO		CONTIGORATION			
Event Log					Clear
5246					*
*Apr 06 01:52:44.72	4: CAPWAP Stat	ce: Join.			
*Apr 06 01:52:44.72	4: Join reques	st: version=7.0.114.1	113		
*Apr 06 01:52:44.72	5: Join reques	st: hasMaximum Messa	ge Payload		
		ing encode: Encoding			
		in Request Path MTU p			
		allback message Close			
		acket caused DTLS to		n	
		st: version=7.0.114.			
		st: hasMaximum Messa			
		ing encode: Encoding			
		ction not found Faile		d send packet.	
		encrypt and send pack			
		send Join request to	-1421466749		
*Apr 06 01:53:43.99					
*Apr 06 01:53:43.99					
*Apr 06 01:53:43.99			Report For And Linear		
		on cleanup completed	. Restarting cap	wap state machine.	
*Apr 06 01:53:48.99		and a second sec			
		r, going to re-start		Lines many second	
*Apr 06 01:54:29.63		Link encap:Ethernet			12
*Apr 06 01:54:29.63				.1.255 Mask:255.255.255	.0
*Apr 06 01:54:29.63				AST MTU:1500 Metric:1	
*Apr 06 01:54:29.63		RX packets:3113 erro			
*Apr 06 01:54:29.63		TX packets:2514 error		verruns:0 carrier:0	
*Apr 06 01:54:29.63		collisions:0 txqueue		600014 (670 0 11)	
*Apr 06 01:54:29.63		RX bytes:607239 (593		:089014 (672.8 kb)	
*Apr 06 01:54:29.63		Interrupt:4 Base add:	ress:0x2000		
*Apr 06 01:54:29.63				22.20.07	~
*Apr 06 01:54:29.66	1: ethl 1	Link encap:Ethernet	HWaddr 00:22:BD	:DA:A9:C7	

I



Configuring the Features of the Access Point

This chapter provides the following information:

- Configuring the Wireless LAN Controller IP Address on the Access Point, page 3-1
- Configuring Radio Channels on the Access Point, page 3-2
- Configuring Personal Wireless LANs, page 3-3
- Troubleshooting, page 3-4
- Using the Split Tunneling Feature for Local Printing, page 3-5

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.

Γ

APPLY

This screen notifies you of any errors that were detected while changing the AP settings.

Validating values...done Committing values...done

Continue

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	5 From the Channel Selection drop-down list, choose the channel on which this interface will operative		
	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 page 2	s the 600 Series OfficeExtend access point GUI as described in "Accessing the GUI" section on e-1.		
Step 2	Click	the Configuration tab.		
	The C	onfiguration-System page is displayed.		
Step 3	Click	the SSID tab.		
	The C	onfiguration-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 <i>AIR-602</i> 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		the Security drop-down boxes, enter the authentication type, encryption type, and passphrase. It is sted 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.			
	Valida Comr	YLY screen notifies you of any errors that were detected while changing the AP settings. ating valuesdone nitting valuesdone		

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.

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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.

F	Find out the name of the local printer you want to configure.	
	f the printer does not have a GUI for configuration, access http:// <i>Printer-IP</i> >: <i>Port</i> >/ to find out the ame from the Printer Details page.	
Ι	n the configuration page, ensure that printing from other subnets is enabled.	
For printers that support IPP, first activate the Internet Printing Client:		
i	a. From the Windows Control Panel, open > Programs and Features.	
I	D. 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.

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- **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://xxxxxx: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.

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Declarations of Conformity and Regulatory Information

This chapter provides declarations of conformity and regulatory information for the Cisco Aironet 600 Series OfficeExtend Access Point.

This chapter contains the following:

- Manufacturers Federal Communication Commission Declaration of Conformity Statement, page 4-1
- Industry Canada, page 4-2
- European Community, Switzerland, Norway, Iceland, and Liechtenstein, page 4-3
- Declaration of Conformity for RF Exposure, page 4-7
- Declaration of Conformity Statements, page 4-7

Manufacturers Federal Communication Commission Declaration of Conformity Statement



Access Point Model: AIR-OEAP602I-A-K9 FCC Certification number: LDK102077

Manufacturer:

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA

This device complies with Part 15 rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and radiates radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference. However, there is no guarantee that interference will not occur. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.



The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency when using the integrated antennas. Any changes or modification to the product not expressly approved by Cisco could void the user's authority to operate this device.



Within the 5.15 to 5.25 GHz band (5 GHz radio channels 34 to 48) the U-NII devices are restricted to indoor operations to reduce any potential for harmful interference to co-channel Mobile Satellite System (MSS) operations.

Industry Canada

Model:

AIR-OEAP602I-A-K9

Certification number:

2461B-102077

Canadian Compliance Statement

This Class B Digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

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Cet appareil numerique de la classe B respecte les exigences du Reglement sur le material broilleur du Canada.

This device complies with Class B Limits of Industry Canada. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Cisco Aironet 2.4-GHz Access Points are certified to the requirements of RSS-210 for 2.4-GHz spread spectrum devices, and Cisco Aironet 54-Mbps, 5-GHz Access Points are certified to the requirements of RSS-210 for 5-GHz spread spectrum devices. The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations. For further information, contact your local Industry Canada office.

European Community, Switzerland, Norway, Iceland, and Liechtenstein

Access Point Model:

AIR-OEAP602I-E-K9

Declaration of Conformity with Regard to the 1999/5/EC (R&TTE Directive)

This declaration is only valid for configurations (combinations of software, firmware, and hardware) provided and supported by Cisco Systems. The use of software or firmware not provided and supported by Cisco Systems may result in the equipment no longer being compliant with the regulatory requirements.

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Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.	_
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Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.	-
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.	-
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.	-
Español [Spanish]:	Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.	
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.	_
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.	_
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Latviski [Latvian]:	Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.	-
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.	121403

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Margyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU- direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
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Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

This device complies with the EMC requirements (EN 60601-1-2) of the Medical Directive 93/42/EEC.

For 2.4 GHz radios, the following standards were applied:

- Radio: EN 300.328-1, EN 300.328-2
- EMC: EN 301.489-1, EN 301.489-17
- Safety: EN 60950



This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. For more details, contact Cisco Corporate Compliance.

For 54 Mbps, 5 GHz access points, the following standards were applied:

- Radio: EN 301.893
- EMC: EN 301.489-1, EN 301.489-17
- Safety: EN 60950

The following CE mark is affixed to the access point with a 2.4 GHz radio and a 54 Mbps, 5 GHz radio:



Operation of Cisco Aironet Access Points in Brazil

This section contains special information for operation of Cisco Aironet access points in Brazil.

Access Point Models

AIR-OEAP602I-E-K9

Regulatory Information

Figure 4-1 contains Brazil regulatory information for the access point models identified in the previous section.
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Figure 4-1 Brazil Regulatory Information



Portuguese Translation

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

English Translation

This equipment operates on a secondary basis and consequently must accept harmful interference, including interference from stations of the same kind. This equipment may not cause harmful interference to systems operating on a primary basis.

Declaration of Conformity for RF Exposure

The radio has been found to be compliant to the requirements set forth in CFR 47 Sections 2.1091, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices as defined in Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields. The equipment shoud be installed more than 20 cm (7.9 in.) from your body or nearby persons.

Declaration of Conformity Statements

All the Declaration of Conformity statements related to this product can be found at the following URL: http://www.ciscofax.com

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- bcm57xx.brcm 8.3.14, page A-2
- bridge 0.9.1, page A-9
- busybox 0.60.0, page A-16
- CFE 1.0.36, page A-32
- dnsmasq 1.10., page A-33
- flex 2.5.4 6.0.0.0501961, page A-33
- IProute2 020116, page A-33
- iptables 1.2.7a 2, page A-38
- LINUX Kernel 2.4.20, page A-46
- milli_httpd 1.21, page A-106
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- radvd 0.9.1, page A-115
- squashfs 3.1, page A-115
- udhcp 0.9.8, page A-116
- utelnetd 0.1.4, page A-123
- vconfig 1.6, page A-130

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- *
- * based on iptables-restore
- * Authors:
- * Harald Welte <laforge@gnumonks.org
- * Rusty Russell <rusty@linuxcare.com.au

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/*
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* Author: Paul.Russell@rustcorp.com.au and mneuling@radlogic.com.au

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LINUX Kernel 2.4.20

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<signature of Ty Coon Ty Coon, President of Vice

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* http://www.hypermall.com/

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY *interrupts us (except possibly for removal/insertion of the cable?) * 10///07 - began began inline degumentation of the cade. Corrected tunos

* 10/4/97 - began heavy inline documentation of the code. Corrected typos *and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on *loss of link, and correctly re-enable PHY when link is *re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb-

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb-

*

combined, allow nicstar_free_rx_skb to be called to

*

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recycle large data buffers * 2) skb clone of received buffers See nicstar_free_rx_skb and linearize_buffer for implementation * details. * * Copyright (c) 1996 University of Cambridge Computer Laboratory * This program is free software; you can redistribute it and/or modify * it under the terms of the GNU General Public License as published by * the Free Software Foundation; either version 2 of the License, or (at your option) any later version. * * * This program is distributed in the hope that it will be useful, * but WITHOUT ANY WARRANTY; without even the implied warranty of * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the * GNU General Public License for more details. * You should have received a copy of the GNU General Public License * along with this program; if not, write to the Free Software * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA. * * M. Welsh, 6 July 1996 * * */ These microcode data are placed under the terms of the GNU General Public License.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Version history:

1998 Apr - 2000 Feb Andrey V. Savochkin <saw@saw.sw.com.sg Serious fixes for multicast filter list setting, TX timeout routine; RX ring refilling logic; other stuff 2000 Feb Jeff Garzik <jgarzik@mandrakesoft.com Convert to new PCI driver interface 2000 Mar 24 Dragan Stancevic <visitor@valinux.com Disabled FC and ER, to avoid lockups when when we get FCP interrupts. 2000 Jul 17 Goutham Rao <goutham.rao@intel.com PCI DMA API fixes, adding pci_dma_sync_single calls where neccesary 2000 Aug 31 David Mosberger <davidm@hpl.hp.com rx_align support: enables rx DMA without causing unaligned accesses. */

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That's all there is to it!

milli_httpd 1.21

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/* milli_httpd - pretty small HTTP server
** A combination of
** micro_httpd - really small HTTP server
** and
** _______

** mini_httpd - small HTTP server

**

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*/
ntpclient 345.0

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ntpclient is an NTP (RFC-1305) client for unix-alike computers. Its functionality is a small subset of xntpd, but IMHO performs better (or at least has the potential to function better) within that limited scope. Since it is much smaller than xntpd, it is also more relevant for embedded computers.

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ntpclient home page: http://doolittle.faludi.com/ntpclient/

To build on Linux, type "make". Solaris and other Unix users will probably need to adjust the Makefile slightly. It's not complicated.

Usage: ntpclient [options] options: -c count stop after count time measurements (default 0 means go forever) -d print diagnostics (feature can be disabled at compile time) -h hostname (mandatory) NTP server host, against which to measure system time -i interval check time every interval seconds (default 600) -1 attempt to lock local clock to server using adjtimex(2) local NTP client UDP port (default 0 means "any available") -p port -r replay analysis code based on stdin simple clock set (implies -c 1) -s

Mortal users can use this program for monitoring, but not clock setting (with the -s or -l switches). The -l switch has not been well tested. Simulation (with -r) actually looks halfway decent, so locking should be OK too, but it needs some tuning.

The test.dat file has 200 lines of sample output. Its first few lines, with the output column headers that are shown when the -d option is chosen, are:

day secondelapsedstallskew dispersionfreq51785180.3861398.040.3953773.9793.5-124000051785780.3821358.041.3954329.0915.5-1240000517851380.3811439.056.0954871.3915.5-1240000

day, second: time of measurement

elapsed: total time from query to response (microseconds)
stall: time the server reports that it sat on the request (microseconds)
skew: difference between local time and server time (microseconds)
dispersion: reported by server, see RFC-1305 (microseconds)

L

freq: local clock frequency adjustment (Linux only, ppm*65536)

test.dat is suitable for piping into ntpclient -r. I have over 53000 samples (lines) archived for study, that I don't include here. They are spaced 10 minutes apart, representing over a year of data logging (not continuous, unfortunately).

envelope is a perl script that I have used for my lock studies. It's kind of a hack and not worth documenting here.

Larry Doolittle <larry@doolittle.boa.org
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squashfs 3.1

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