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Cisco Aironet 600 Series OfficeExtend Access Point User Guide

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CONTENTS

Cisco Aironet 600 Series OfficeExtend Access Point User Guide Unpacking the Cisco Aironet 600 Series OfficeExtend Access Point 1-2 Cisco Aironet 600 Series OfficeExtend Access Point Placement 1-2
Cigos Aironat 600 Carios Office Extend Access Boint Placement 4.2
Cisco Aironet 600 Series OfficeExtend Access Point Placement 1-2
Cisco Aironet 600 Series OfficeExtend Access Point Overview 1-3
Installation Guidelines 1-4
Understanding Cisco Aironet 600 Series OfficeExtend Access Point LEDs 1-5
Accessing the Cisco Aironet 600 Series OfficeExtend Access Point GUI 1-5
Configuring the Wireless LAN Controller IP Address on a Cisco Aironet 600 Series OfficeExtend Access Point 1-8
Configuring Radio Channels on a Cisco Aironet 600 Series OfficeExtend Access Point 1-10
Configuring Personal Wireless LANs 1-12
Viewing the Event Log 1-14
Accessing Online Help 1-14
Troubleshooting 1-15
Cisco Aironet 600 Series OfficeExtend Access Point Local Customer Interface 1-16
AP GUI 1-16
Login Screen 1-17
Welcome Screen 1-17
Home Page 1-18
Configuration Page 1-19
WAN Tab 1-22
Event Log Page 1-23
Help Page 1-24
Declarations of Conformity and Regulatory Information 1-26
Manufacturers Federal Communication Commission Declaration of Conformity Statement 1-26
Industry Canada 1-28
European Community, Switzerland, Norway, Iceland, and Liechtenstein 1-28 Declaration of Conformity for RF Exposure 1-31
Declaration of Conformity for RF Exposure 1-31 Declaration of Conformity Statements 1-31

Open Source Used In Cisco Aironet 600 Series OfficeExtend Access Point A-1

Contents



CHAPTER

Cisco Aironet 600 Series OfficeExtend Access Point User Guide

The Cisco Aironet 600 Series OfficeExtend Access Point User Guide includes the following information:

- Unpacking the Cisco Aironet 600 Series OfficeExtend Access Point, page 1-2
- Cisco Aironet 600 Series OfficeExtend Access Point Placement, page 1-2
- Cisco Aironet 600 Series OfficeExtend Access Point Overview, page 1-3
- Installation Guidelines, page 1-4
- Understanding Cisco Aironet 600 Series OfficeExtend Access Point LEDs, page 1-5
- Accessing the Cisco Aironet 600 Series OfficeExtend Access Point GUI, page 1-5
- Configuring the Wireless LAN Controller IP Address on a Cisco Aironet 600 Series OfficeExtend Access Point, page 1-8
- Configuring Radio Channels on a Cisco Aironet 600 Series OfficeExtend Access Point, page 1-10
- Configuring Personal Wireless LANs, page 1-12
- Viewing the Event Log, page 1-14
- Accessing Online Help, page 1-14
- Troubleshooting, page 1-15
- Cisco Aironet 600 Series OfficeExtend Access Point Local Customer Interface, page 1-16
- Declarations of Conformity and Regulatory Information, page 1-26
- Appendix A, "Open Source Used In Cisco Aironet 600 Series OfficeExtend Access Point"

Unpacking the Cisco Aironet 600 Series OfficeExtend 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

Cisco Aironet 600 Series OfficeExtend Access Point Placement

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).

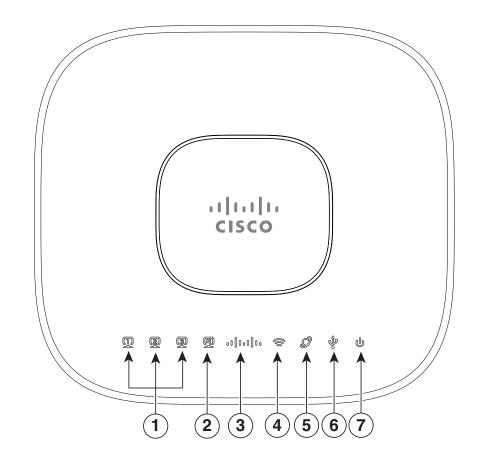
Areas to avoid or places that may result in reduced range or performance are as follows.

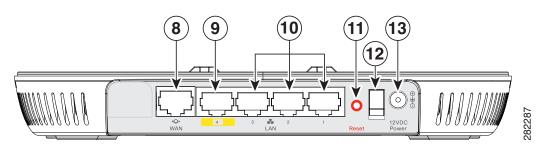
- In a basement of a multi-story home, as the signals must penetrate many walls.
- Near large obstructions that can block the radio signals. Avoid areas like metal cabinets or refrigerators.
- On the floor under a metal desk or other dense or conductive objects.



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

Cisco Aironet 600 Series OfficeExtend Access Point Overview





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		

Installation Guidelines

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.



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 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 a Cisco Aironet 600 Series OfficeExtend Access Point" section on page 1-8, 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 a Cisco Aironet 600 Series OfficeExtend Access Point" section on page 1-10 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.

Understanding Cisco Aironet 600 Series OfficeExtend Access **Point LEDs**

The LEDs on the top panel indicate the operating status of the unit. Table 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.

Table 1 LED Status Indications for 600 Series OfficeExtend Access Points

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 blue	Operating Status: Discovery/join process in progress, no client associated.	
Cycling through purple, orange	Operating Status: Discovery/join process in progress, with client associated.	
Orange	Cisco IOS errors: Software failure; try disconnecting and reconnecting unit power.	

Accessing the Cisco Aironet 600 Series OfficeExtend Access Point 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.



Note

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 "Installation Guidelines" 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.



Note

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 appears.



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



Note

The default username and password are admin and admin.

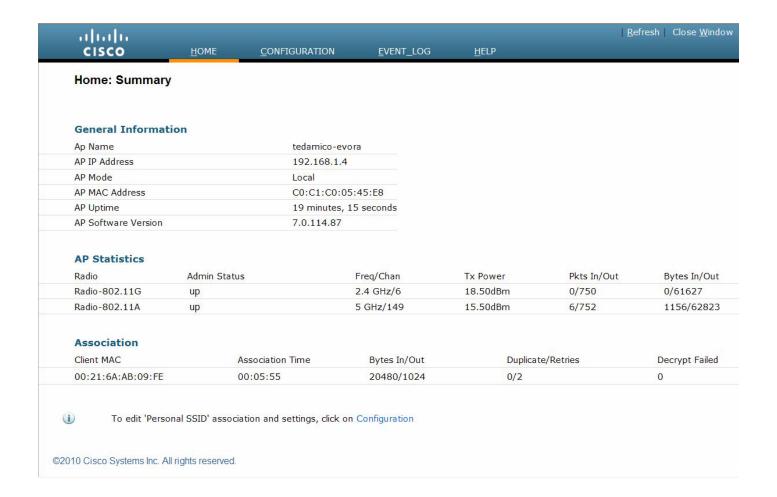
Office Extend Access Point

Enter

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The 600 Series OfficeExtend Access Point Welcome page appears.

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

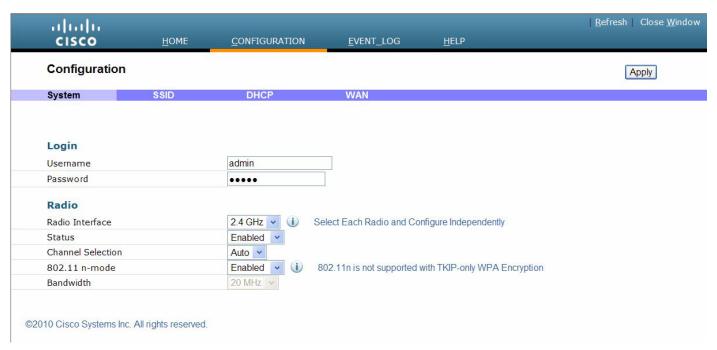


Configuring the Wireless LAN Controller IP Address on a Cisco Aironet 600 Series OfficeExtend Access Point

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 Cisco Aironet 600 Series OfficeExtend Access Point GUI" section on page 1-5.

Step 3 From the Home Summary page, click **Configuration** to open the Configuration page.



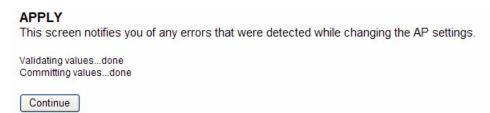
Step 4 Click the **WAN** tab to open the Configure WAN page.



- Step 5 Enter the IP address of the primary controller in the Primary 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.

Step 8 The screen will switch to a verification screen. Click **Continue** when it appears.

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.



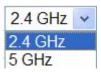
Configuring Radio Channels on a Cisco Aironet 600 Series OfficeExtend Access Point

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 Cisco Aironet 600 Series OfficeExtend Access Point GUI" section on page 1-5.
- **Step 2** From the Home Summary page, click **Configuration** to open the Configure System page.



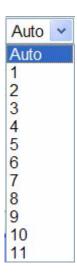
Step 3 From the Radio Interface pulldown box, select the desired radio interface, either 2.4 GHz or 5 GHz.



Step 4 From the **Status** pulldown box, select **Enabled** to enable the wireless interface.



Step 5 From the **Channel Selection** pulldown box, select the channel on which this interface will operate.





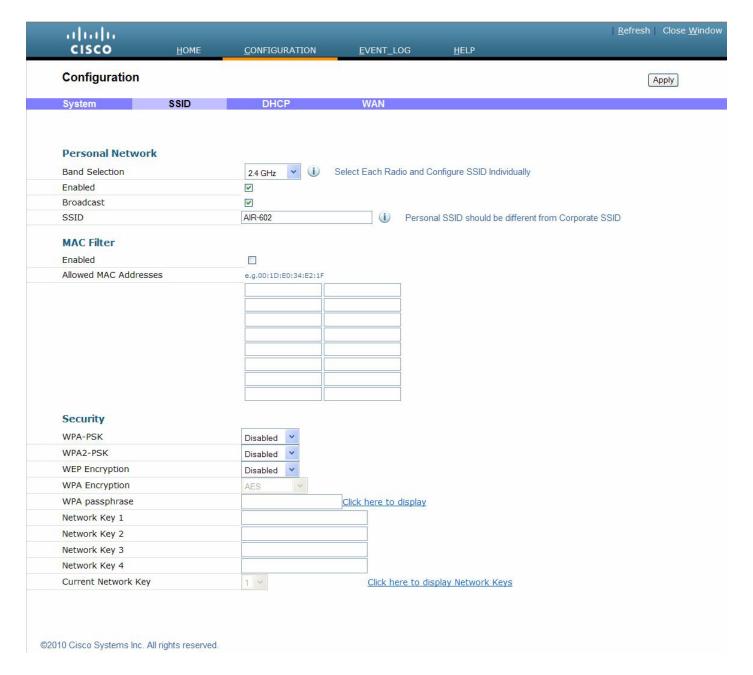
Note

802.11n mode should be enabled by default. If it is disabled, select **Enabled** from the **802.11 n-mode** pulldown box.

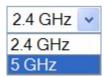
Step 6 Click **Apply** to commit your changes.

Configuring Personal Wireless LANs

- Step 1 Access the 600 Series OfficeExtend access point GUI as described in "Accessing the Cisco Aironet 600 Series OfficeExtend Access Point GUI" section on page 1-5.
- **Step 2** From the Home Summary page, click **Configuration** to open the Configuration page.
- **Step 3** Click the **SSID** tab to open the Configuration SSID page.



Step 4 From the **Band Selection** pulldown, choose the band, either 2.4 GHz or 5.0 GHz. You can duplicate the configuration on both bands, or have different settings on each band.

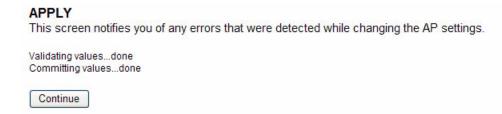


- **Step 5** Check the **Enabled** check box to enable this wireless connection. The default value is Disabled.
- **Step 6** Check the **Broadcast** check box to broadcast the SSID over the air. The default value is unchecked.
- **Step 7** In the SSID field, enter the personal SSID that you want to assign to this access point. This SSID will be locally switched. The default SSID is *AIR-602* for both radios.



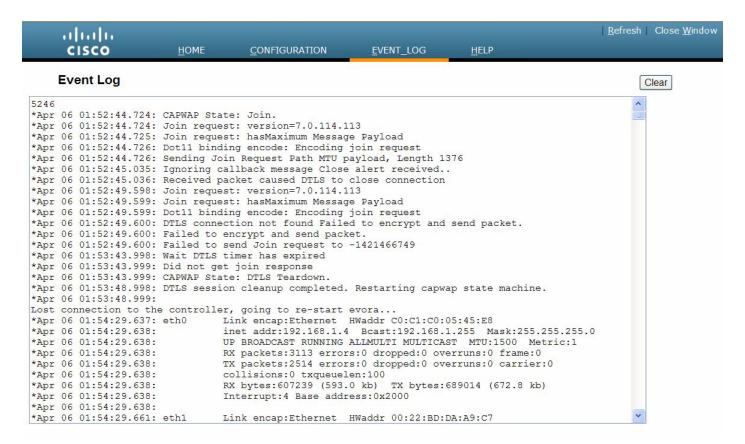
Your personal SSID Wireless LAN and your company SSID Wireless LAN are different. When you configure your personal Wireless LAN, use an SSID name that is different from your company's SSID to help avoid confusion.

- **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.
- **Step 10** The screen will switch to a verification screen. Click **Continue** when it appears.



Viewing the Event Log

From the main interface banner, elect **Event Log** to view the ongoing list of event logs for this access point.



Accessing Online Help

From the main interface banner, click **Help** to access the current Cisco Aironet 600 Series OfficeExtend Access Point online help.

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.

Cisco Aironet 600 Series OfficeExtend Access Point Local Customer Interface

The Cisco Aironet 600 Series OfficeExtend access point console supports the following configuration items:

- Local SSID
 - SSID Name
 - MAC Filtering
 - Security type: WPA-PSK TKIP/AES, WPA-PSK AES, WPA2-PSK TKIP/AES, WPA2-PSK AES, and WEP (not recommended)
 - SSID Broadcast/Hidden
- Bands supported (2.4Ghz (B/G/N 20), 5Ghz (A/N 20/40), All)
- Selection of either manual or automatic channel selection per band
- Configuration of optional local DHCP Server
 - Local IP address
 - Subnet address and mask
 - Range of addresses that may be allocated
- Ability to configure the initial primary Wireless LAN Controller for CAPWAP
- Use of DHCP or static address for the uplink port (local IP address, netmask, and default router)
- View logged errors or clear the log

In addition, the web should allow for a password to be added and operate only over https.

The following sections provide the screens associated with the configuration.

AP GUI

AP GUI has four major sections:

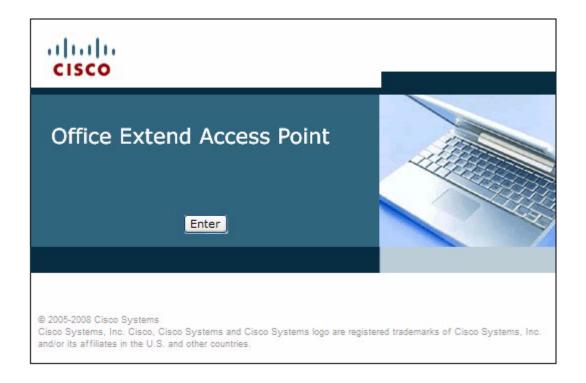
- HOME This page shows general information about the AP settings and a summary of the statistics.
- CONFIGURATION This page is a multi-tab page which allows the user to configure different options like personal SSID, local DHCP server, etc.
- EVENT LOG This page provides the user the ability to view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

The rest of this section shows the appearance of each page/tab.

Login Screen



Welcome Screen

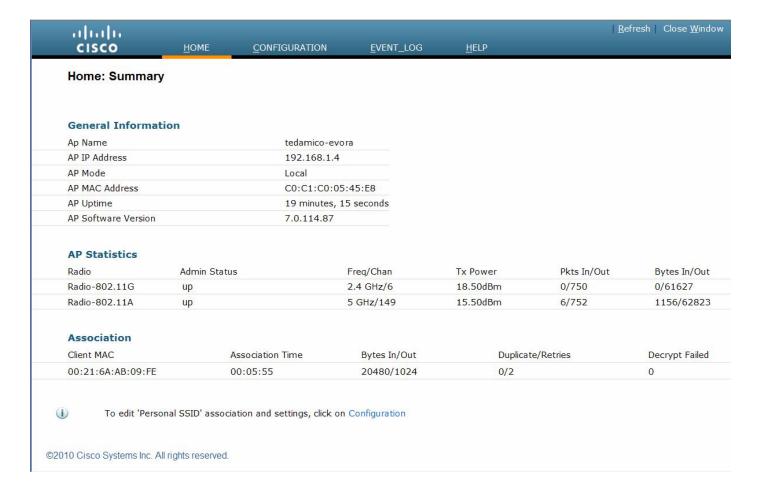


Home Page

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.

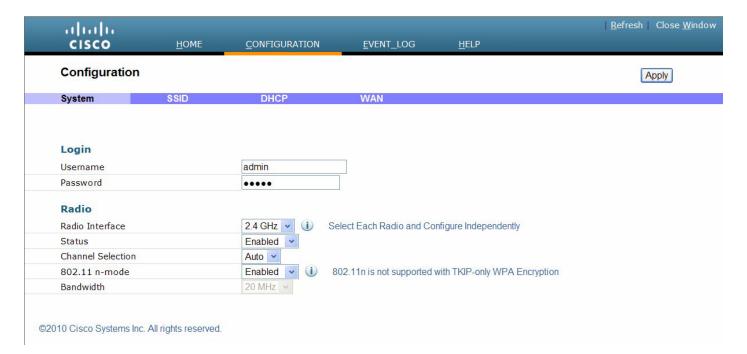
The main options that can be configured on this page are:

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

Shown below are illustrations of each of the tabs.

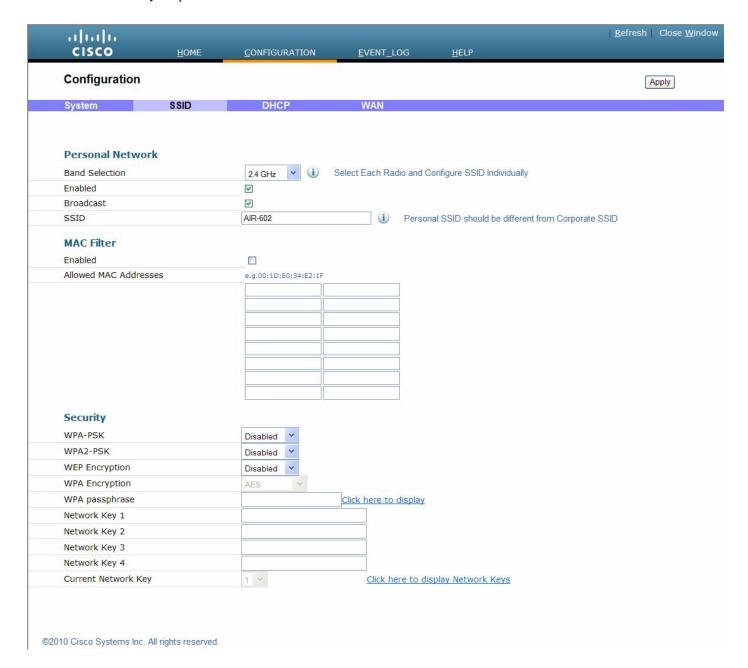
System Tab

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



SSID Tab

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



DHCP Tab

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



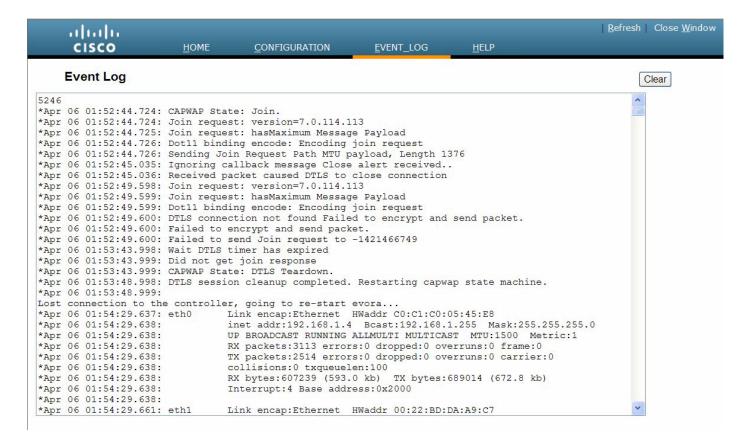
WAN Tab

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



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:



Help Page

The Help page provides detailed information about the other pages, especially Configuration.

Figure 1 Help Page



Help

HOME PAGE:

This page provides a detailed summary of 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, and number of duplicates and retries.

CONFIGURATION PAGE:

This page has multiple tabs to allow the user to configure different options. The main options that can be configured are:

SYSTEM: The Configuration System tab displays and allows the user to configure general system information.

The Login section allows the user to change the username and password for the access point.

The Radio section allows the user to configure radio interface information such as:

- Radio Interface: Selects which wireless interface to configure.
- Status: Enables/disables this radio interface.
- Channel Selection: Selects a particular channel to operate. For automatic selection, choose "Auto".
- 802.11n mode: Enables/disables the 802.11n mode.
- Bandwidth: Selects the channel bandwidth. Only 20 MHz is allowed for b/g/n radio.

Figure 2 Help Page continued

<u>SSID</u>: The Configuration SSID tab contains fields necessary for you to configure your personal SSIDs.

The Personal Network section allows the user to configure the following:

- Band Selection: Selects the wireless interface.
- Enabled: Enables/disables this wireless connection.
- Broadcast: Broadcasts the personal SSID on this radio.
- SSID: Configures the personal SSID/network name to assign to this access point.

The MAC Filter section enables MAC filtering and allows setting of the filter list.

The **Security** section allows the user to configure security for this SSID. Supported security types are WPA-PSK TKIP/AES, WPA-PSK AES, WPA2-PSK TKIP/AES, WPA2-PSK AES, and WEP (not recommended).

<u>DHCP:</u> The Configuration DHCP tab contains the fields necessary to configure the LAN settings and the local DHCP server.

<u>WAN:</u> The Configuration Wireless Access Network (WAN) tab contains the fields necessary for you to configure the IP address of the Wireless LAN controller on your access point. The **Primary Controller** section sets the IP address of the primary wireless controller to which the AP will join.

The Uplink IP Configuration section configures the IP configuration on the WAN port.

EVENT LOG:

This page will display all the logged events and has a button to clear the log.

Declarations of Conformity and Regulatory Information

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

This section contains the following subsections:

- Manufacturers Federal Communication Commission Declaration of Conformity Statement, page 1-26
- Industry Canada, page 1-28
- European Community, Switzerland, Norway, Iceland, and Liechtenstein, page 1-28
- Declaration of Conformity for RF Exposure, page 1-31
- Declaration of Conformity Statements, page 1-31

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.

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

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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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English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.	_
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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:



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 should 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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Contents

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busybox 0.60.0

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* 07-11-2001 Modified by Fernando Anton to add support for IPv6.

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LINUX Kernel 2.4.20

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Version 1.0

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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?)
- * 10/4/97 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
        recycle large data buffers
     2) skb clone of received buffers
  See nicstar free rx skb and linearize buffer for implementation
    details.
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```

```
* M. Welsh, 6 July 1996

*
*
*/
```

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<signature of Ty Coon
Ty Coon, President of Vice

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Written 1996-1999 by Donald Becker.

The driver also contains updates by different kernel developers (see incomplete list below).

Current maintainer is Andrey V. Savochkin <saw@saw.sw.com.sg Please use this email address and linux-kernel mailing list for bug reports.

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This driver is for the Intel EtherExpress Pro100 (Speedo3) design. It should work with all i82557/558/559 boards.

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

Available under license:

```
/* 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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**

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*/

ntpclient 345.0

Available under license:

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)
- -l attempt to lock local clock to server using adjtimex(2)
- -p port local NTP client UDP port (default 0 means "any available")
- -r replay analysis code based on stdin
- -s simple clock set (implies -c 1)

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 second elapsed stall skew dispersion freq
51785 180.386 1398.0 40.3 953773.9 793.5 -1240000
51785 780.382 1358.0 41.3 954329.0 915.5 -1240000
51785 1380.381 1439.0 56.0 954871.3 915.5 -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)

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 <arry@doolittle.boa.org
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```

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```

udhcp 0.9.8

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utelnetd 0.1.4

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