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## Cisco Aironet 600 Series OfficeExtend Access Point User Guide

June 2011

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## 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
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- 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).

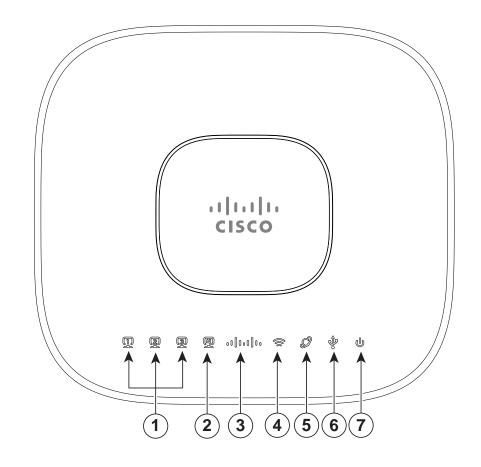
Areas to avoid or places that may result in reduced range or performance are as follows.

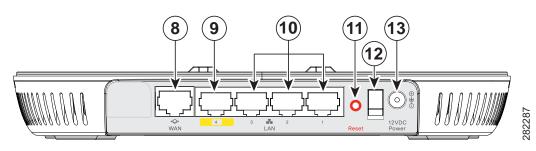
- In a basement of a multi-story home, as the signals must penetrate many walls.
- Near large obstructions that can block the radio signals. Avoid areas like metal cabinets or refrigerators.
- On the floor under a metal desk or other dense or conductive objects.



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**

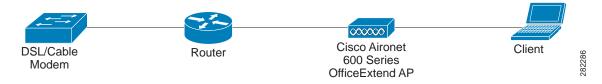
To install the Cisco Aironet 600 Series OfficeExtend Access Point, follow these steps:

- **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.

## Resetting the unit

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 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.



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.



Note

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.

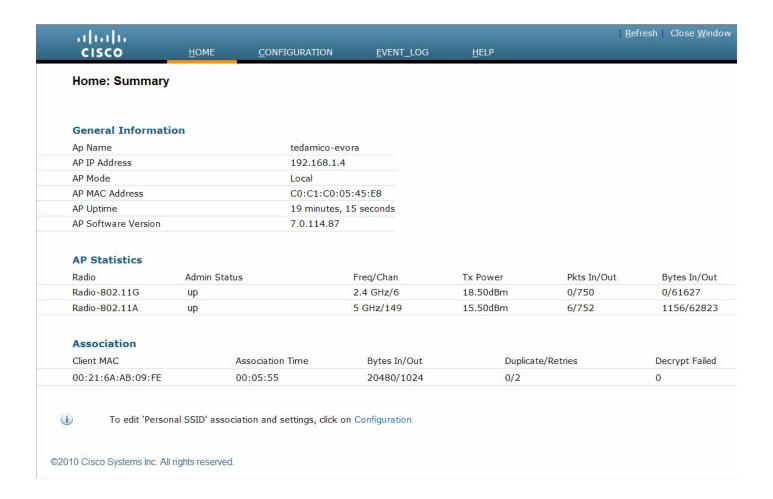
Office Extend Access Point

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.

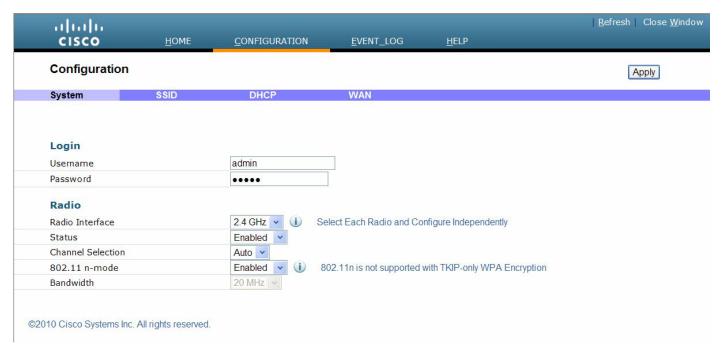


## Configuring the Wireless LAN Controller IP Address on a Cisco Aironet 600 Series OfficeExtend Access Point

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.



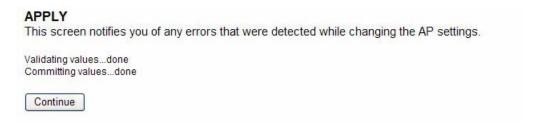
**Step 4** Click the **WAN** tab to open the Configure WAN page.



- 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.



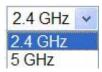
## Configuring Radio Channels on a Cisco Aironet 600 Series OfficeExtend Access Point

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.



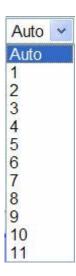
**Step 3** From the **Radio Interface** pulldown box, select the desired radio interface, either 2.4 GHz or 5 GHz.



**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.





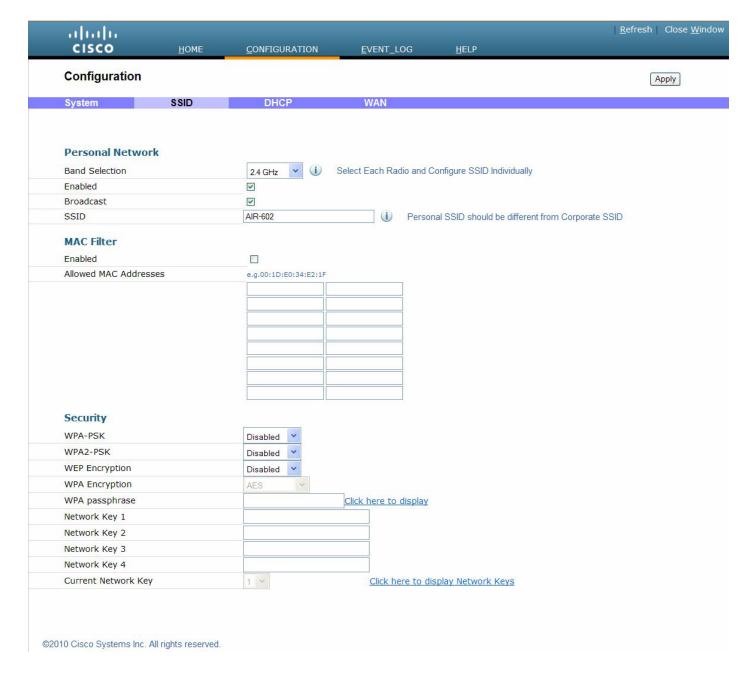
Note

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

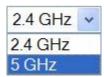
**Step 6** Click **Apply** to commit your changes.

## **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.

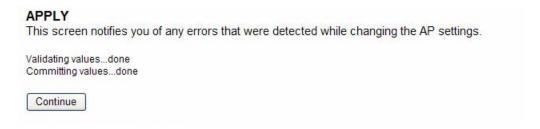


- **Step 5** Check the **Enabled** check box to enable this wireless connection. The default value is Disabled.
- **Step 6** Check the **Broadcast** check box to broadcast the SSID over the air. The default value is unchecked.
- **Step 7** In the SSID field, enter the personal SSID that you want to assign 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**

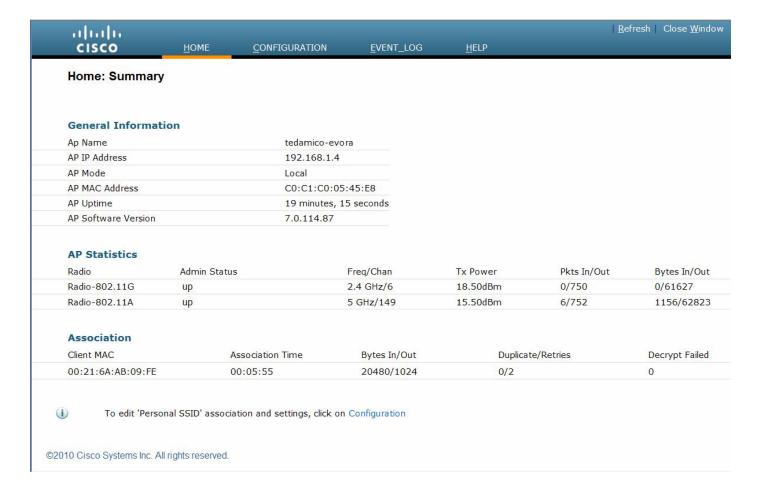


## **Home Page**

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.

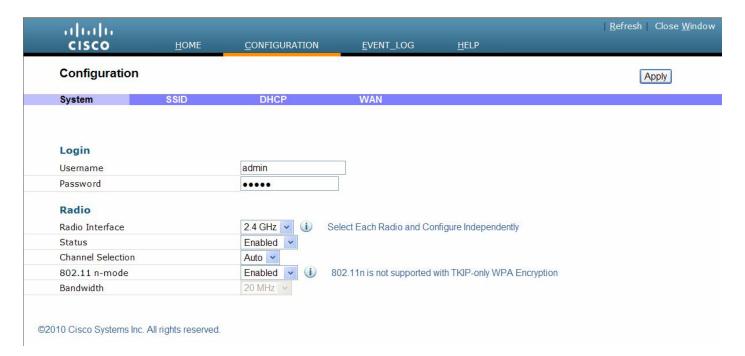
The main options that can be configured on this page are:

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

Shown below are illustrations of each of the tabs.

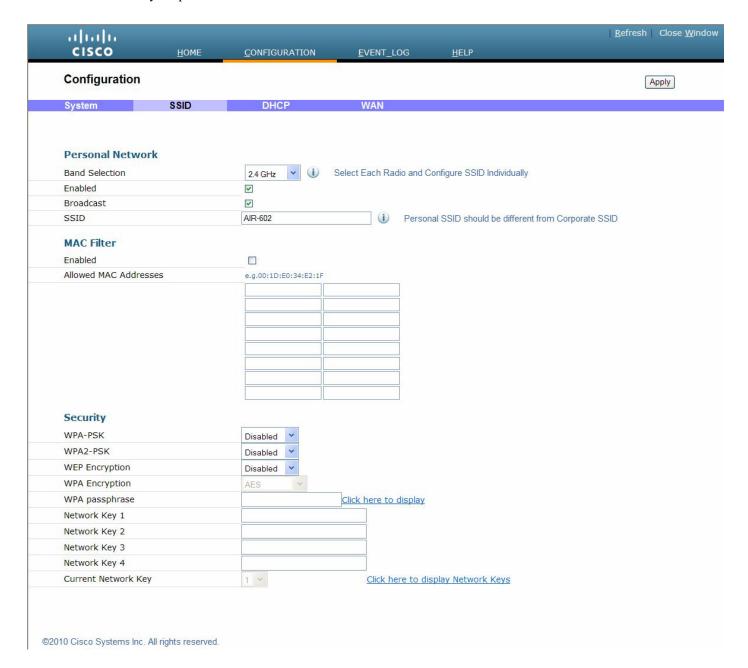
### **System Tab**

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 1-25
- Industry Canada, page 1-27
- European Community, Switzerland, Norway, Iceland, and Liechtenstein, page 1-27
- Declaration of Conformity for RF Exposure, page 1-30
- Declaration of Conformity Statements, page 1-30

## 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

### 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.

Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.	
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.	
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/ΕC.	
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

Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet essenzjali u l-provedimenti l-oħra rilevanti tad- Direttiva 1999/5/EC.
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.
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Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
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 3 contains Brazil regulatory information for the access point models identified in the previous section.

Figure 3 Brazil Regulatory Information



2444-11-1086



(01)07898362232893

#### **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 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**

### bcm57xx.brcm 8.3.14

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* Author: James Morris <jmorris@intercode.com.au
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\*

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

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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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```

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* M. Welsh, 6 July 1996
*
*
*
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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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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.
Copyright (C) <year</pre>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon
Ty Coon, President of Vice

That's all there is to it!

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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  - \* c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

- 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
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  - \* b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
  - \* c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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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[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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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this,

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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  - a) The modified work must itself be a software library.
  - b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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```
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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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# 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)
- -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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