



# SmartHub



**Dual Band 802.11 a/b/g/n Wireless Router**

**Model AWRT-600N**

**User's Manual**

Rev. 1.0

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# 1. Introduction

Thank you for purchasing Asante AWRT-600N Smart Dual Band Wireless N Router. The AWRT-600N Dual Band Wireless N Router provides switchable 2.4 and 5 GHz wireless frequency which allow more clean channels and less interference for your wireless network. A full range of security features such as WPA2-PSK, WPA-PSK, and WEP provide the highest level of wireless network security. The built-in SmartHub Web Configuration Utility has a unique 'Easy Set up' option that allows one to set up the router with no or minimum networking knowledge. The built-in Web Configuration Utility also has the regular path to set up the router with an easy-to-use user interface.

SmartHub is to change user's access the router in a very innovative way where administrator can

- 1) access the device simply by bring up a browser and login accordingly
- 2) create/modify/delete user profile and manage it in any place and any time.
- 3) Setup the internet and wireless seamlessly to any ISP.

## 1.1 Package Contents

Before you begin the installation, please check the items of your package:

- Dual Band Wireless N Router
- Power Adapter
- Ethernet Cable (Cat.5)
- Manual CD
- Quick Installation Guide

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packaging materials in case you need to ship the unit in the future.

## 1.2 Features

- Smart Setup, Management, Control.
- Built-in dual band (5 / 2.4GHz switchable) AP
- More channels, less interference — ideal for wireless congested area
- Highest wireless data rate of up to 300Mbps\* with 802.11n draft 2.0
- WPS button for easy connection with your WPS support wireless adapters
- Enjoy HD video streaming, gaming and VoIP with more powerful Dual Band Wireless N
- Advanced NAT+SPI firewall provides fully protection for your wireless connection
- QoS (Quality of Service) designed for prioritizing various data traffic to allow downloading files and playing movies, music, or online gaming at the same time with uninterrupted data streaming
- Supports Universal Plug and Play
- Fully backward compatible with 802.11a/b/g

## 2. Connecting the Router

**Note:** Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router.

**Step 1** Connect one end of a network cable to the **INTERNET(yellow)** port of the router and connect the other end of the cable to the DSL/Cable modem.

**Step 2** With another network cable, connect one end of the cable to your computer's Ethernet port and connect the other end to one of the **LAN** ports of the router.

**Step 3** Power on the DSL/Cable modem and wait for the lights on the modem to become stable.

**Step 4** Plug the power adapter to the router and connect to an outlet or power strip.

**Step 5** Power on your computer.

**Step 6** Make sure the **INTERNET**, **WIRELESS**, and the **LAN** port that the computer is connected to are lit. If not, try the above steps again.

### LED Indicators:



### How the router connects:



### 3. Configuring the Router

After all components in the previous picture are connected and powered up, follow the steps below to configure the router.

**Step 1** Open the web browser (Internet Explorer/Mozilla Firefox/Safari/Chrome). If this is the first time, the logon page below should appear. Or you can type “smarthub” or “192.168.1.1” on the browser.



#### 1<sup>st</sup> Time to SmartHub

You will be the 1st administrator.

Administrator :

Default admin - you may change it

Password :

Create your password

Re-type Password :

Save & Enter

Otherwise the regular user page below will appear below after 1<sup>st</sup> administrator created the user profile.



#### Welcome to SmartHub

Username :

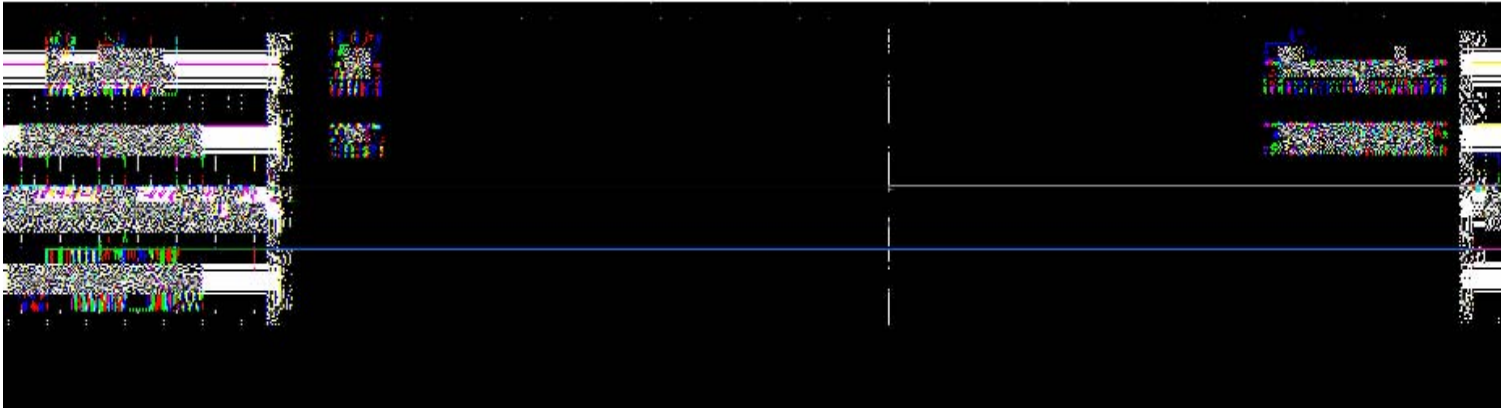
Password :

Enter

**Step 2** Enter **admin** for both the username and password fields and click **OK**. The page below should appear.



# Hi, Administrator



The sections below cover the '**Advanced Set Up**' option. The '**Easy Set Up**' will automatically guide you accordingly with online help menu. It is very simple and straightforward set up procedure which will not describe in this manual.

## ***The Cable Modem***

For most cable modem users, you should be able to connect to the Internet without any configuration. Automatic Configuration – DHCP is usually the default Internet Connection Type. If your ISP has provided you with a host name, enter it in the optional **Host Name** field. Click **Save Settings** to save the settings.

**EZ Set Up** | Basic Setup | DDNS | MAC Address Clone | Advanced Routing

**Internet Setup**

Internet Connection Type: Automatic Configuration - DHCP

Optional Settings (required by some Internet Service Providers):

Host Name: Asante

Domain Name: Asante

MTU: Auto Size: 1500

**Network Setup**

Router IP

IP Address: 192 . 168 . 1 . 1

Subnet Mask: 255.255.255.0

**DHCP Server Setting**

DHCP Server:  Enabled  Disabled DHCP Reservation

Start IP Address: 192 . 168 . 1 . 100

Maximum Number of Users: 50

IP Address Range: 192 . 168 . 1 . 100 to 149

Help Explain

If your ISP requires a registered MAC Address, click on the **MAC Address Clone** tab select **Enabled**, and click on the **Clone My PC's MAC** button. Click **Save Settings** to save the settings.

**EZ Set Up** | Basic Setup | DDNS | MAC Address Clone | Advanced Routing

**MAC Address Clone**

Enabled  Disabled

MAC Address: 00 . 21 . 00 . 78 . 4C . 9D

Clone My PC's MAC

Save Settings Cancel Changes

Help Explain

If you have trouble connecting to the Internet, please refer to **Section 4, Verifying Connection**.

## DSL

For DSL users, follow the steps below to configure the router.

**Step 1** Select **PPPoE** from the drop-down menu.

The screenshot displays the Asante SmartHub AWRT-600N web interface. The top navigation bar includes the Asante logo on the left and the SmartHub AWRT-600N logo on the right. Below the navigation bar, there are tabs for 'Basic Setup', 'DDNS', 'MAC Address Clone', and 'Advanced Routing'. The 'Basic Setup' tab is active, and the 'Internet Setup' section is expanded. On the left side, there is a vertical sidebar with menu items: 'EZ Set Up', 'Setup', 'Status', 'Wireless', 'Firewall', 'Access Policy', 'Application', and 'Administration'. The 'Setup' item is highlighted. The main content area shows the 'Internet Setup' configuration page. The 'Internet Connection Type' dropdown menu is open, showing options: 'PPPoE', 'Automatic Configuration - DHCP', 'Static IP', 'PPPoE', 'PPTP', 'L2TP', and 'Telstra Cable'. The 'PPPoE' option is selected. Below the dropdown menu, there are input fields for 'Service Name(Optional):', 'Connect on Demand:Max Idle Time' (set to 5 Minutes), and 'Keep Alive: Redial Period' (set to 30 Seconds). At the bottom, there are 'Optional Settings (required by some Internet Service Providers)' including 'Host Name' (Asante), 'Domain Name' (Asante), and 'MTU' (Auto, Size: 1492). A 'Help Explain' link is visible on the right side of the page.



**Step 2** Enter your username and password provided by your ISP.

The screenshot shows the 'Internet Setup' configuration page for the Asante SmartHub AWRT-600N. The page is divided into several sections:

- Navigation:** A vertical menu on the left includes 'EZ Set Up' (highlighted), 'Setup', 'Status', 'Wireless', 'Firewall', 'Access Policy', 'Application', and 'Administration'.
- Page Header:** 'Asante' logo on the top left and 'SmartHub AWRT-600N' on the top right.
- Sub-headers:** 'Basic Setup | DDNS | MAC Address Clone | Advanced Routing'.
- Internet Setup Section:**
  - Internet Connection Type:** A dropdown menu set to 'PPPoE'.
  - Username:** An empty text input field.
  - Password:** An empty text input field.
  - Service Name(Optional):** An empty text input field.
  - Connect on Demand:** A radio button option with 'Max Idle Time' set to '5' Minutes.
  - Keep Alive:** A radio button option with 'Redial Period' set to '30' Seconds.
- Optional Settings (required by some Internet Service Providers):**
  - Host Name:** A text input field containing 'Asante'.
  - Domain Name:** A text input field containing 'Asante'.
  - MTU:** A dropdown menu set to 'Auto' and a 'Size' input field containing '1492'.
- Network Setup:** A section header at the bottom of the main content area.
- Help Explain:** A button on the right side of the page.

**Note:** Depending on the ISP, you may need to include the domain name with your username.

**Example:**        **username@sbcglobal.net**

**Step 3** Click **Save Settings** to save the settings.

You should be able to connect to the Internet now with the wired computer. If you have trouble connecting to the Internet, please refer to **Section 4, Verifying Connection**.

Connect each of your wired computers to an available LAN port on the Router with an Ethernet cable, and then restart the computer. These computers should be able to connect to the Internet immediately.

## 4. Verifying Connection

If you have trouble connecting to the Internet, try the following steps.

**Step 1** Power off the Cable/DSL modem, router, and computer and wait for **5 minutes**.

**Step 2** Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.

**Step 3** Turn on the router and wait for the lights on the router to settle down.

**Step 4** Turn on the computer.

**Step 5** Log in to the router and select the **Status** tab.

**Step 6** Verify that the **Internet IP Address, Default Gateway**, and at least one of the **DNS** fields have valid numbers assigned to them (instead of all 0's).

The screenshot displays the Asante SmartHub AWRT-600N router's status page. The left sidebar contains navigation tabs: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is divided into two sections: Router Information and Internet Connection. The Router Information section lists: Firmware Version: 1.0.01, SN: 1234567890, Current Time: Thu Nov 19 03:56:30 2009 (GMT -08:00), Internet MAC Address: 00:21:00:78:4C:9D, Host Name: Asante, and Domain Name: Asante. The Internet Connection section shows: Connection Type: Automatic Configuration - DHCP, Internet IP Address: 0.0.0.0, Subnet Mask: 0.0.0.0, Default Gateway: 0.0.0.0, DNS: 0.0.0.0, and MTU: Auto. At the bottom of the Internet Connection section are buttons for 'IP Address Release' and 'IP Address Renew'. A 'Refresh' button is located at the bottom right of the main content area. The top right corner features the SmartHub AWRT-600N logo, and the top left corner has the Asante logo.

Router Information	
Firmware Version:	1.0.01
SN	1234567890
Current Time:	Thu Nov 19 03:56:30 2009 (GMT -08:00)
Internet MAC Address:	00:21:00:78:4C:9D
Host Name:	Asante
Domain Name:	Asante

Internet Connection	
Connection Type:	Automatic Configuration - DHCP
Internet IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
DNS	0.0.0.0
MTU	Auto

If each field has a valid numbers(not all 0's) assigned, the router is connected to the Internet.

## 5. Connecting to the Router Wirelessly

Below are the default wireless settings of the router. You must configure your wireless network card to the same settings in order to establish a wireless connection to the router. Please refer to your wireless network card's manual on how to configure these settings.

SSID: **default**

Network Mode: **BGN-Mixed**

Authentication: **Open System**

Channel #: **6**

WEP: **disabled**

If you want to change the router's wireless and security settings, log in to the router and select the **Wireless** tab. Click on **Manual** button. Click **Save Settings** to save the settings after you make changes.

The screenshot shows the Asante SmartHub AWR600N router's configuration interface. The top left features the Asante logo, and the top right shows the SmartHub AWR600N logo. A navigation menu on the left includes 'EZ Set Up', 'Setup', 'Status', 'Wireless', 'Firewall', 'Access Policy', 'Application', and 'Administration'. The 'Wireless' tab is selected, displaying 'Basic Wireless Settings'. The settings are as follows:

- Wireless Configuration:  Manual  Wi-Fi Protected Setup
- Network Mode: BGN-Mixed (dropdown)
- Network Name (SSID): SmartHub-AWR600N (text input)
- Radio Band: Auto - 20/40MHz Channel (dropdown)
- Standard Channel: Auto (dropdown)
- Extension Channel: Auto (dropdown)
- SSID Broadcast:  Enabled  Disabled

At the bottom right, there are 'Save Settings' and 'Cancel Changes' buttons. A 'Help Explain' link is visible on the right side of the settings area.

## 6. Web Configuration Utility

This router has a built-in web configuration utility that you can use to configure the router's settings. Simply log in to the router using your computer's web browser.

### 6.1 Setup

#### 6.1.1 Setup > Basic Setup

This is the default screen when you log in to the router's web configuration utility and select **'Advanced Set Up'**. You can setup your Internet connection here as well as configuring the Network and DHCP server settings and selecting your Time Zone.

The screenshot displays the 'Basic Setup' page of the Asante SmartHub AWRT-600N web configuration utility. The interface includes a left-hand navigation menu with options: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is divided into several sections:

- Internet Setup:** Internet Connection Type is set to 'Static IP'. Optional Settings include Host Name: 'Asante', Domain Name: 'Asante', and MTU: 'Auto' (Size: 1500).
- Network Setup:** Router IP section shows IP Address: '192.168.1.1' and Subnet Mask: '255.255.255.0'.
- DHCP Server Setting:** DHCP Server is 'Enabled'. Start IP Address is '192.168.1.100', Maximum Number of Users is '50', IP Address Range is '192.168.1.100 to 149', Client Lease Time is '0' minutes, DNS is '0.0.0.0', and WINS is '0.0.0.0'. A 'DHCP Reservation' link is also present.
- Time Settings:** Time Zone is '(GMT-08:00) Pacific Time (USA & Canada)'. A checkbox for 'Automatically adjust clock for daylight saving changes' is checked.

At the bottom right, there are 'Save Settings' and 'Cancel Changes' buttons. A 'Help Explain' link is located on the right side of the page. The Asante logo is in the top left, and the SmartHub AWRT-600N logo is in the top right.

## Internet Setup

There are six Internet Connection Types: DHCP, PPPoE, Static IP, PPTP, L2TP, and Telstra Cable.

### Automatic Configuration - DHCP

When your ISP provides dynamic IP, you can keep this default setting (This is for most cable modem users). Usually you should be able to connect to the Internet without changing any configuration. If your ISP has provided you with a host name, enter it in the optional **Host Name** field. Click **Save Settings** to save the settings.



<b>EZ Set Up</b>	Basic Setup   DDNS   MAC Address Clone   Advanced Routing
<b>Setup</b>	<b>Internet Setup</b>
Status	Internet Connection Type: Automatic Configuration - DHCP
Wireless	Optional Settings (required by some Internet Service Providers): Host Name: Asante Domain Name: Asante MTU: Auto Size: 1500
Firewall	
Access Policy	
Application	<b>Network Setup</b> Router IP: IP Address: 192 . 168 . 1 . 1 Subnet Mask: 255.255.255.0
Administration	

Help Explain

### PPPoE

Usually DSL service provider uses PPPoE for Internet connection. You will need to provide username and password given by your ISP to connect to the Internet.



<b>EZ Set Up</b>	Basic Setup   DDNS   MAC Address Clone   Advanced Routing
<b>Setup</b>	<b>Internet Setup</b>
Status	Internet Connection Type: PPPoE
Wireless	Username: <input type="text"/> Password: <input type="password"/> Service Name(Optional): <input type="text"/>
Firewall	<input type="radio"/> Connect on Demand: Max Idle Time 5 Minutes. <input checked="" type="radio"/> Keep Alive: Redial Period 30 Seconds.
Access Policy	
Application	Optional Settings (required by some Internet Service Providers): Host Name: Asante Domain Name: Asante MTU: Auto Size: 1492
Administration	

Help Explain

## Static IP

Select Static IP if your ISP provided you the static IP address, Subnet Mask, Default Gateway and DNS server addresses for Internet connection.

Asante

SmartHub  
AWRT-800N

The screenshot shows the 'Internet Setup' page in the Asante SmartHub AWRT-800N web interface. The 'Internet Connection Type' is set to 'Static IP'. The configuration fields are as follows:

Internet IP Address:	192	168	1	122
Subnet Mask:	255	255	255	0
Default Gateway:	192	168	1	1
DNS 1:	61	31	233	1
DNS 2(Options):	211	78	215	137
DNS 2(Options):	211	78	215	200

Optional Settings (required by some Internet Service Providers):

Host Name:	Asante		
Domain Name:	Asante		
MTU:	Auto	Size:	1500

## PPTP

Point-to-Point Tunneling Protocol (PPTP) is a service that applies to connections in Europe only. Enter the Internet connection information provided by your ISP accordingly.

Asante

SmartHub  
AWRT-800N

The screenshot shows the 'Internet Setup' page in the Asante SmartHub AWRT-800N web interface. The 'Internet Connection Type' is set to 'PPTP'. The configuration options are:

- Obtain an IP Address Automatically.
- Specify an IP Address:
  - Address: 0 . 0 . 0 . 0
  - Subnet Mask: 0 . 0 . 0 . 0
  - Default Gateway Address: 0 . 0 . 0 . 0
  - DNS: 0 . 0 . 0 . 0
- Server IP Address: 0 . 0 . 0 . 0
- Username: [ ]
- Password: [ ]
- Connect on Demand: Max Idle Time 5 Minutes.
- Keep Alive: Redial Period 30 Seconds.

Optional Settings (required by some):

Host Name:	Asante
------------	--------

## L2TP

L2TP is a service that applies to connections in Israel only. Enter the Internet connection information provided by your ISP accordingly.

The screenshot shows the Asante router's configuration interface. At the top left is the Asante logo, and at the top right is the SmartHub logo with the model number AWR-T-600N. The navigation menu on the left includes 'EZ Set Up', 'Setup', 'Status', 'Wireless', 'Firewall', 'Access Policy', 'Application', and 'Administration'. The main content area is titled 'Internet Setup' and has sub-navigation links for 'Basic Setup', 'DDNS', 'MAC Address Clone', and 'Advanced Routing'. The 'Internet Connection Type' is set to 'L2TP'. Below this, there are input fields for 'Internet IP Address' (four boxes, each containing '0'), 'Username', and 'Password'. There are two radio button options: 'Connect on Demand: Max Idle Time 5 Minutes' (unselected) and 'Keep Alive: Redial Period 30 Seconds' (selected). Under 'Optional Settings (required by some)', there is a 'Host Name' field containing 'Asante'. A 'Help Explain' link is located on the right side of the page.

## Telstra Cable

Telstra Cable is a service that applies to connections in Australia only. Enter the Internet connection information provided by your ISP accordingly.

The screenshot shows the Asante router's configuration interface for 'Telstra Cable'. The layout is identical to the L2TP page, but the 'Internet Connection Type' is set to 'Telstra Cable'. The 'Optional Settings' section includes 'Host Name' (Asante), 'Domain Name' (Asante), and 'MTU' (Auto, Size: 1500). The 'Keep Alive: Redial Period 30 Seconds' option is selected. The 'Help Explain' link is on the right.

## Network Setup

### Router IP

You can change the Router's IP Address and its Subnet Mask for the local network.

#### Network Setup

Router IP

IP Address:  .  .  .

Subnet Mask:

The Router has a built-in DHCP server which can dynamically assign IP address to each device on your network. The **DHCP Server** is **Enabled** by default, if you already have a DHCP server on the network, you need to select **Disabled**.

DHCP Server Setting

DHCP Server:  Enabled  Disabled

Start IP Address: 192 . 168 . 1 .

Maximum Number of Users:

IP Address Range: 192 . 168 . 1 . 100 to 149

Client Lease Time:  minutes (0 means one day)

DNS:  .  .  .

WINS:  .  .  .

#### Time Settings

**Start IP Address:** Give a value for the dynamically assigning IP address to start with. Because the Router's default IP address is **192.168.1.1**, the Starting IP Address must be 192.168.1.2 or greater, but smaller than 192.168.1.253. The default Starting IP Address is **192.168.1.100**.

**Maximum Number of Users:** Enter the maximum number of PCs that you want the DHCP server to assign IP addresses to. This number cannot be greater than 253. The default is **50**.

**Client Lease Time:** The Client Lease Time is the amount of time a network user will be allowed connection to the Router with their current dynamic IP address. The default is 24 hours.

**Static DNS 1~3:** Enter up to 3 DNS addresses for your network.

**DHCP Reservation:** If you want to assign a static IP Address to one of the computers in your network, click on the **DHCP Reservation** button.



DHCP Reservation

Select Client from DHCP Tables

Client Name	Interface	IP Address	MAC Address	Select
Katie_Tung-NB01	Wireless	192.168.1.102	00:17:C4:93:38:22	<input type="checkbox"/>

---

Manually Add Client

Enter Client Name	Assign IP Address	To This MAC Address	
<input style="width: 95%;" type="text"/>	192.168.1. <input style="width: 20px;" type="text"/>	<input style="width: 95%;" type="text" value="00:00:00:00:00:00"/>	<input type="button" value="Add"/>

---

Clients Already Reserved

Client Name	Assign this IP	To This MAC Address	MAC Address

**Step 1** Enter the Static IP Address in the **Assign this IP** field.

**Step 2** Enter the MAC address of the corresponding computer in the **To this MAC** field.

**Step 3** Check the **Add** button.

**Step 4** Click **Save Settings**.

### Time Settings

Set up the time zone and daylight saving for the Router.

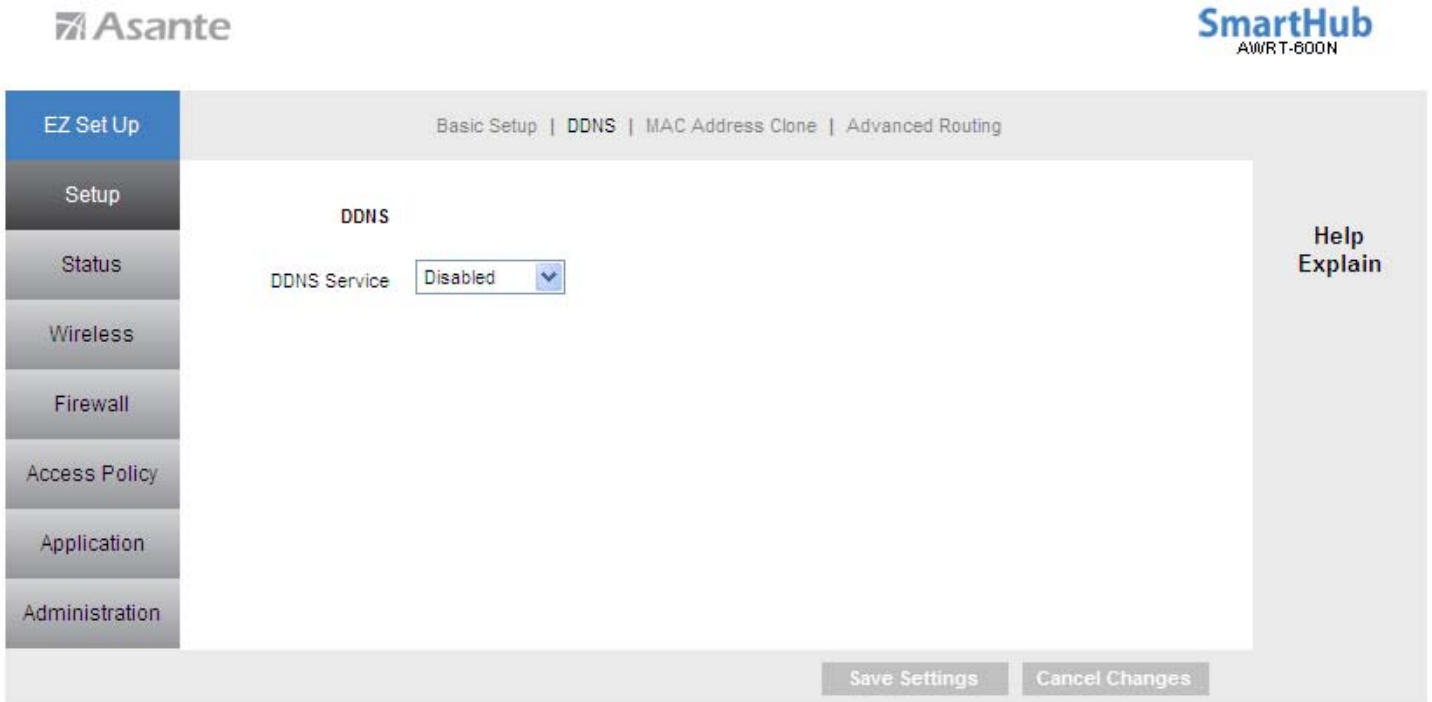
**Time Settings**

Time Zone (GMT-08:00) Pacific Time (USA & Canada) ▼

Automatically adjust clock for daylight saving changes.

## 6.1.2 Setup > DDNS

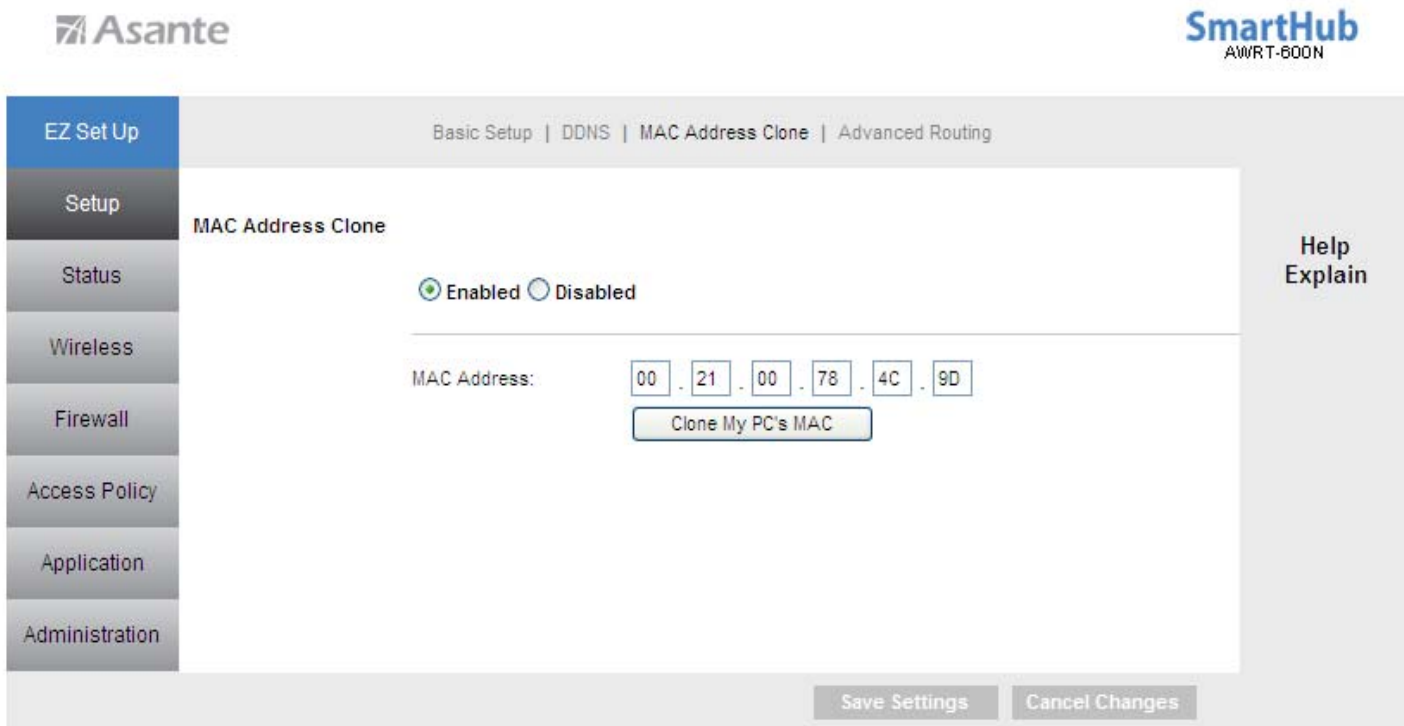
Dynamic DNS (DDNS) allows any user who wishes to access your server to reach it by a registered DNS name instead of an IP address. Before you enable **DDNS**, you need to register an account with one of the DDNS providers listed in the drop-down menu.



To Enable DDNS, select the DDNS provider you have registered with and enter the required fields. Click **Save Settings** to save the settings.

## 6.1.3 Setup > MAC Address Clone

Some ISPs require a registered MAC address to access the Internet. You can use the following steps to clone your PC's registered MAC address to access the Internet.



**Step 1** Check the radio button **Enabled** .

**Step 2** Click the **Clone My PC's MAC** button.

**Step 3** Click **Save Settings** to save the settings.

## 6.1.4 Setup > Advanced Routing

The screenshot displays the 'Advanced Routing' configuration page in the Asante SmartHub interface. The left sidebar contains navigation tabs: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'Advanced Routing' and includes the following sections:

- NAT:** A radio button selection where 'Enabled' is selected.
- Dynamic Routing (RIP):** A radio button selection where 'Disabled' is selected.
- Static Routing:** A section for configuring static routes. It features a 'Route Entries' dropdown menu showing '1 ( )' and a 'Delete This Entry' button. Below this are input fields for:
  - Enter Route Name: (empty text box)
  - Destination LAN IP: (four input boxes, each containing '0')
  - Subnet Mask: (four input boxes, each containing '0')
  - Gateway: (four input boxes, each containing '0')
  - Interface: (dropdown menu set to 'LAN & Wireless')A 'Show Routing Table' button is located at the bottom of this section.



At the bottom right of the page, there are two buttons: 'Save Settings' and 'Cancel Changes'.

To see the current routing table, click on **Show Routing Table** button.

Be sure to click **Save Settings** to save each entry.

## 6.2. Wireless

### 6.2.1 Wireless > Basic Wireless Settings



[EZ Set Up](#) | [Basic Wireless Settings](#) | [Wireless Security](#) | [Wireless MAC Filter](#) | [Advanced Wireless Settings](#)

[Setup](#)

[Status](#)

**Wireless**

[Firewall](#)

[Access Policy](#)

[Application](#)

[Administration](#)


**Basic Wireless Settings**

Wireless Configuration:  Manual  Wi-Fi Protected Setup

---

**Wi-Fi Protected Setup**

Please check if your PC has WPS button. If yes, there are 2 options. That you can easily sync up with Smarthub.:

1. If your PC has WPS button. Please click it and press below WPS 
2. If your PC has WPS PIN number, Please enter number here

---

Wi-Fi Protected Setup Status: Configured

Network Name (SSID): SmartHub-AWRT600N

Security: Disabled

[Help](#)  
[Explain](#)

## Wireless Configuration - Manual

To configure the Wireless settings, click radio button **Manual**.

You can configure the router's basic wireless settings on this screen.

The screenshot shows the 'Basic Wireless Settings' page for an Asante SmartHub AWRT-600N router. The page has a left sidebar with navigation options: EZ Set Up, Setup, Status, Wireless (selected), Firewall, Access Policy, Application, and Administration. The main content area is titled 'Basic Wireless Settings' and includes the following configuration options:

- Wireless Configuration:  Manual  Wi-Fi Protected Setup
- Network Mode: BGN-Mixed (dropdown)
- Network Name (SSID): SmartHub-AWRT600N (text input)
- Radio Band: Auto - 20/40MHz Channel (dropdown)
- Standard Channel: Auto (dropdown)
- Extension Channel: Auto (dropdown)
- SSID Broadcast:  Enabled  Disabled

At the bottom of the page, there are two buttons: 'Save Settings' and 'Cancel Changes'. The Asante logo is in the top left, and the SmartHub AWRT-600N logo is in the top right. A 'Help Explain' link is located on the right side of the page.

**Network Mode:** If you have 802.11b/g/n 2.4GHz devices on the wireless network, select **BGN-Mixed**. If you have 802.11a/n 5GHz devices on the wireless network, select **AN-Mixed**.

**Note:** If your wireless computer cannot detect the router after you selected **AN-Mixed**, please make sure your wireless adapter supports 5GHz frequency band.

**Network Name (SSID):** You can change the router's SSID in this field. Once you have changed the SSID, your network clients need to re-connect themselves using the new SSID.

**Channel:** Select the desired channel. All the network clients need to use the same channel.

**Radio Band:** For best performance in a network, keep the default, **Auto – 20/40MHz Channel**.

**Standard Channel:** If you selected Auto – 20/40MHz Channel for the Radio Band setting, then this setting will be your primary Wireless N channel. If you are not sure which channel to select, keep the default, **Auto**.

**Extension Channel:** Select the extension channel for Wireless N extended radio band. If you are not sure which channel to select, keep the default, **Auto**.

**SSID Broadcast:** Choose to enable or disable the broadcast of your SSID (wireless network name).

## 6.2.2 Wireless > Wireless Security

You can configure wireless security such as WPA2 or WEP encryption on this screen.

**Note:** WPA2 Personal is the most secured encryption mode for general users. WEP is the most common encryption but the least secured. It is recommended to use WPA2 Personal AES for your wireless security if all the wireless devices on your network support this mode. All of the wireless clients must use the same security settings in order to connect to the router.

### WEP

To enable WEP, select **WEP** from the **Security Mode**.

The screenshot shows the Asante SmartHub AWRT-600N configuration interface. The page title is "Wireless Security". The "Security Mode" is set to "WEP". The "Encryption" is set to "40 / 64-bit (10 hex digits)". There are four input fields for "Key 1", "Key 2", "Key 3", and "Key 4". The "TX Key" is set to "1". There is a "Generate" button next to the "Passphrase" field. The page includes a sidebar with navigation options: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The "Wireless" option is currently selected. There are also "Save Settings" and "Cancel Changes" buttons at the bottom right.

**Encryption:** Choose **64 bits** or **128 bits**

**Passphrase:** You can enter a passphrase and click on the **Generate** button and the router will automatically generate four WEP keys for you.

**WEP Key 1 – 4:** Manually assign a passphrase for each key. If you selected **64 bits** encryption, enter **10** HEX characters (0-F) for each key. If you selected **128 bits** encryption, enter **26** HEX characters (0-F) for each key.

**TX Key:** Select a key to be the active key.

Click **Save Settings** to save the settings.

## WPA Personal

Select **WPA Personal** from the **Security Mode**.

The screenshot shows the Asante SmartHub AWRT-600N web interface. The top navigation bar includes the Asante logo on the left and the SmartHub AWRT-600N logo on the right. Below the navigation bar, there are tabs for 'Basic Wireless Settings', 'Wireless Security', 'Wireless MAC Filter', and 'Advanced Wireless Settings'. The 'Wireless Security' tab is active, and the page title is 'Wireless Security'. On the left side, there is a vertical menu with options: 'EZ Set Up', 'Setup', 'Status', 'Wireless', 'Firewall', 'Access Policy', 'Application', and 'Administration'. The 'Wireless' option is highlighted. The main content area contains the following settings:

- Security Mode:** A dropdown menu set to 'WPA Personal'.
- Encryption:** A dropdown menu set to 'AES'.
- Passphrase:** An empty text input field.
- Key Renewal:** A text input field containing '3600' followed by the label 'seconds'.

At the bottom right of the main content area, there are two buttons: 'Save Settings' and 'Cancel Changes'.

**Encryption:** Select either **TKIP** or **AES** as the encryption method.

**Passphrase:** Enter a passphrase between 8 to 63 characters long.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Save Settings** to save the settings.



## WPA2 Personal

Select **WPA2 Personal** from the **Security Mode**.

The screenshot displays the Asante SmartHub AWRT-600N configuration interface. The top navigation bar includes the Asante logo and the SmartHub AWRT-600N model name. The main content area is titled 'Wireless Security' and contains the following settings:

- Security Mode:** WPA2 Personal (selected from a dropdown menu)
- Encryption:** TKIP or AES (selected from a dropdown menu)
- Passphrase:** (empty text input field)
- Key Renewal:** 3600 seconds (text input field)

At the bottom of the configuration area, there are two buttons: 'Save Settings' and 'Cancel Changes'. A 'Help Explain' link is visible on the right side of the page.

**Encryption:** Select either **TKIP** or **AES** as the encryption method.

**Passphrase:** Enter a passphrase between 8 to 63 characters long.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Save Settings** to save the settings.

## WPA Enterprise

Select **WPA Enterprise** from the **Security Mode**.

The screenshot shows the Asante SmartHub AWRT-600N configuration interface. The 'Wireless Security' section is active, showing the following settings:

- Security Mode: WPA Enterprise (selected in a dropdown menu)
- Encryption: TKIP (selected in a dropdown menu)
- RADIUS Server: 0 . 0 . 0 . 0 (IP address input field)
- RADIUS Port: 1812 (port number input field)
- Shared Secret: (empty text input field)
- Key Renewal: 3600 seconds (key renewal time input field)

At the bottom of the configuration area, there are two buttons: 'Save Settings' and 'Cancel Changes'. A red rectangle is drawn on the page below the screenshot, likely indicating a specific step or action.



**Encryption:** Select either **TKIP** or **AES** as the encryption method.

**RADIUS Server:** Enter the IP Address of your RADIUS server.

**RADIUS Port:** Enter the port number of your RADIUS server.

**Shared Secret:** Enter the shared key.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Save Settings** to save the settings.

## WPA2 Enterprise

Select **WPA2 Enterprise** from the **Security Mode**.

The screenshot displays the Asante SmartHub AWRT-600N configuration interface. The left sidebar contains navigation options: EZ Set Up, Setup, Status, Wireless (selected), Firewall, Access Policy, Application, and Administration. The main content area is titled 'Wireless Security' and includes the following settings:

- Security Mode: WPA2 Personal (dropdown menu)
- Encryption: TKIP or AES (dropdown menu)
- Passphrase: (empty text input field)
- Key Renewal: 3600 seconds (text input field)

At the bottom of the configuration area, there are two buttons: 'Save Settings' and 'Cancel Changes'. A red box highlights the 'Encryption' dropdown menu in the original image.

**Encryption:** Select either **TKIP** or **AES** as the encryption method.

**RADIUS Server:** Enter the IP Address of your RADIUS server.

**RADIUS Port:** Enter the port number of your RADIUS server. Default is 1812.

**Shared Secret:** Enter the shared key.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Save Settings** to save the settings.

## Radius

This option features WEP used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.)

The screenshot shows the 'Wireless Security' configuration page. The 'Security Mode' is set to 'RADIUS'. The 'RADIUS Server' is '0.0.0.0', 'RADIUS Port' is '1812', and 'Shared Secret' is empty. The 'Encryption' is set to '40 / 64-bit (10 hex digits)'. There is a 'Passphrase' field with a 'Generate' button. Below are four 'Key' fields (Key 1, Key 2, Key 3, Key 4) and a 'TX Key' dropdown menu set to '1'. At the bottom are 'Save Settings' and 'Cancel Changes' buttons.

**Encryption Methods:** Select either ~~TKIP~~ or **AES** as the encryption method.

**RADIUS Server:** Enter the IP Address of your RADIUS server.

**RADIUS Port:** Enter the port number of your RADIUS server.

**Shared Secret:** Enter the shared key.

**Encryption:** Select a level of WEP encryption, **64 bits 10 hex digits** or **128 bits 26 hex digits**. The default is **64 bits 10 hex digits**.

**Passphrase:** Enter a Passphrase to automatically generate WEP keys. Then click **Generate**.


**Key 1-4:** If you did not enter a Passphrase, enter the WEP key(s) manually.

**Tx Key:** Select a key from the drop-down menu.


## Wireless Configuration - WiFi-Protected Setup

To use Wi-Fi Protected Setup, click on **WiFi-Protected Setup** radio button in 'Basic Wireless Settings' page.

The screenshot shows the Asante SmartHub AWR600N web interface. The left sidebar contains navigation options: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'Basic Wireless Settings' and includes the following elements:

- Navigation links: Basic Wireless Settings | Wireless Security | Wireless MAC Filter | Advanced Wireless Settings
- Wireless Configuration:  Manual  Wi-Fi Protected Setup
- Section: **Wi-Fi Protected Setup**
- Text: Please check if your PC has WPS button. If yes, there are 2 options. That you can easily sync up with Smarthub.:
- Step 1: If your PC has WPS button, Please click it and press below WPS 
- Step 2: If your PC has WPS PIN number, Please enter number here
- Status Summary:
  - Wi-Fi Protected Setup Status: Configured
  - Network Name (SSID): SmartHub-AWR600N
  - Security: Disabled

WiFi Protected Setup supports two types of connection: Push Button Configuration (PBC) or Personal Identification Number (PIN).

If you choose to use **PBC** on your client device to connect to the router, click on the WPS software button 

If you choose to use **PIN** on your client device, you need to enter the PIN number generated by the client device into the blank and click **Register**.

### Connecting to the Router with WPS Push Button (Optional)

AWRT-600N Dual Band Wireless N Router supports hardware WiFi-Protected Setup (WPS) push button which allows you to connect your wireless computer with the router safely and easily. Your wireless adapter must support this feature as well. If not, you will need to set up the wireless security manually .

### 3 Wireless > MAC Filter

You can restrict certain wireless clients from accessing the router by specifying their MAC address and enabling access restriction.

Asante SmartHub AWRT-800N

Basic Wireless Settings | Wireless Security | **Wireless MAC Filter** | Advanced Wireless Settings

**Wireless MAC Filter**  
 Enabled  Disabled

**Access Restriction**  
 Prevent PCs listed below from accessing the wireless network:  
 Permit PCs listed below to access the wireless network:

MAC Address Filter List: Wireless Client List

MAC 1:	<input type="text" value="00:00:00:00:00:00"/>	MAC 26:	<input type="text" value="00:00:00:00:00:00"/>
MAC 2:	<input type="text" value="00:00:00:00:00:00"/>	MAC 27:	<input type="text" value="00:00:00:00:00:00"/>
MAC 3:	<input type="text" value="00:00:00:00:00:00"/>	MAC 28:	<input type="text" value="00:00:00:00:00:00"/>
MAC 4:	<input type="text" value="00:00:00:00:00:00"/>	MAC 29:	<input type="text" value="00:00:00:00:00:00"/>
MAC 5:	<input type="text" value="00:00:00:00:00:00"/>	MAC 30:	<input type="text" value="00:00:00:00:00:00"/>
MAC 6:	<input type="text" value="00:00:00:00:00:00"/>	MAC 31:	<input type="text" value="00:00:00:00:00:00"/>
MAC 7:	<input type="text" value="00:00:00:00:00:00"/>	MAC 32:	<input type="text" value="00:00:00:00:00:00"/>
MAC 8:	<input type="text" value="00:00:00:00:00:00"/>	MAC 33:	<input type="text" value="00:00:00:00:00:00"/>
MAC 9:	<input type="text" value="00:00:00:00:00:00"/>	MAC 34:	<input type="text" value="00:00:00:00:00:00"/>
MAC 10:	<input type="text" value="00:00:00:00:00:00"/>	MAC 35:	<input type="text" value="00:00:00:00:00:00"/>
MAC 11:	<input type="text" value="00:00:00:00:00:00"/>	MAC 36:	<input type="text" value="00:00:00:00:00:00"/>
MAC 12:	<input type="text" value="00:00:00:00:00:00"/>	MAC 37:	<input type="text" value="00:00:00:00:00:00"/>
MAC 13:	<input type="text" value="00:00:00:00:00:00"/>	MAC 38:	<input type="text" value="00:00:00:00:00:00"/>
MAC 14:	<input type="text" value="00:00:00:00:00:00"/>	MAC 39:	<input type="text" value="00:00:00:00:00:00"/>
MAC 15:	<input type="text" value="00:00:00:00:00:00"/>	MAC 40:	<input type="text" value="00:00:00:00:00:00"/>
MAC 16:	<input type="text" value="00:00:00:00:00:00"/>	MAC 41:	<input type="text" value="00:00:00:00:00:00"/>
MAC 17:	<input type="text" value="00:00:00:00:00:00"/>	MAC 42:	<input type="text" value="00:00:00:00:00:00"/>
MAC 18:	<input type="text" value="00:00:00:00:00:00"/>	MAC 43:	<input type="text" value="00:00:00:00:00:00"/>
MAC 19:	<input type="text" value="00:00:00:00:00:00"/>	MAC 44:	<input type="text" value="00:00:00:00:00:00"/>
MAC 20:	<input type="text" value="00:00:00:00:00:00"/>	MAC 45:	<input type="text" value="00:00:00:00:00:00"/>
MAC 21:	<input type="text" value="00:00:00:00:00:00"/>	MAC 46:	<input type="text" value="00:00:00:00:00:00"/>
MAC 22:	<input type="text" value="00:00:00:00:00:00"/>	MAC 47:	<input type="text" value="00:00:00:00:00:00"/>
MAC 23:	<input type="text" value="00:00:00:00:00:00"/>	MAC 48:	<input type="text" value="00:00:00:00:00:00"/>
MAC 24:	<input type="text" value="00:00:00:00:00:00"/>	MAC 49:	<input type="text" value="00:00:00:00:00:00"/>
MAC 25:	<input type="text" value="00:00:00:00:00:00"/>	MAC 50:	<input type="text" value="00:00:00:00:00:00"/>

Save Settings Cancel Changes

Select **Enabled** and choose whether the specified wireless clients will be prevented or permitted to access the wireless network. Enter their MAC address in the fields below and click **Save Settings** to save the settings.

## 6.2.4 Wireless > Advanced Wireless Settings

You can configure various advanced wireless settings on this screen.

**Asante** **SmartHub**  
AWRT-800N

EZ Set Up | Basic Wireless Settings | Wireless Security | Wireless MAC Filter | **Advanced Wireless Settings**

**Advanced Wireless**

AP Isolation:  Enabled  Disabled (Default: Disabled)

Frame Burst:  Enabled  Disabled (Default: Enabled)

---

Authentication Type: Auto (Default: Auto)

Basic Rate: Default (Default: Default)

Transmission Rate: Auto (Default: Auto)

N Transmission Rate: Auto (Default: Auto)

CTS Protection Mode: Auto (Default: Auto)

---

Beacon Interval: 100 (Default: 100, Milliseconds, Range: 20-999)

DTIM Interval: 1 (Default: 1, Range: 1 - 255)

Fragmentation Threshold: 2346 (Default: 2346, Range: 256 - 2346)

RTS Threshold: 2347 (Default: 2347, Range: 0 - 2347)

Save Settings Cancel Changes

Help Explain

**AP Isolation:** This isolates all wireless clients and wireless devices on your network from each other. Wireless devices will be able to communicate with the Router but not with each other. To use this function, select **Enabled**.

**Frame Burst:** Frame Burst allows packet bursting which will increase overall network speed.

**Authentication Type:** The default is set to **Auto**, which allows either Open System or Shared Key authentication to be used. With **Open System** authentication, the sender and the recipient do NOT use a WEP key for authentication. With **Shared Key** authentication, the sender and recipient use a WEP key for authentication.

**Basic Rate:** The Basic Rate setting is not one, but a series of rates at which the Router can transmit. (The Basic Rate is not the actual rate of data transmission. If you want to specify the Router's rate of data transmission, configure the Transmission Rate setting.)

**Transmission Rate:** The rate of data transmission should be set depending on the speed of your wireless network.

**CTS Protection Mode:** CTS (Clear-To-Send) Protection Mode should remain disabled unless you are having severe problems with your wireless products not being able to transmit to the Router in an environment with heavy latency wireless traffic. This function boosts the Router's ability to catch all wireless transmissions but will severely decrease performance.

**Beacon Interval:** A beacon is a packet broadcast by the Router to synchronize the wireless network.

**DTIM Interval:** This value, between 3 and 255, indicates the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the Router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast messages. The default value is 1.

**Fragmentation Threshold:** This value specifies the maximum size for a packet before data is fragmented into multiple packets. If you experience a high packet error rate, you may slightly increase the Fragmentation Threshold. Setting the Fragmentation Threshold too low may result in poor network performance. Only minor reduction of the default value is recommended. In most cases, it should remain at its default value of **2346**.

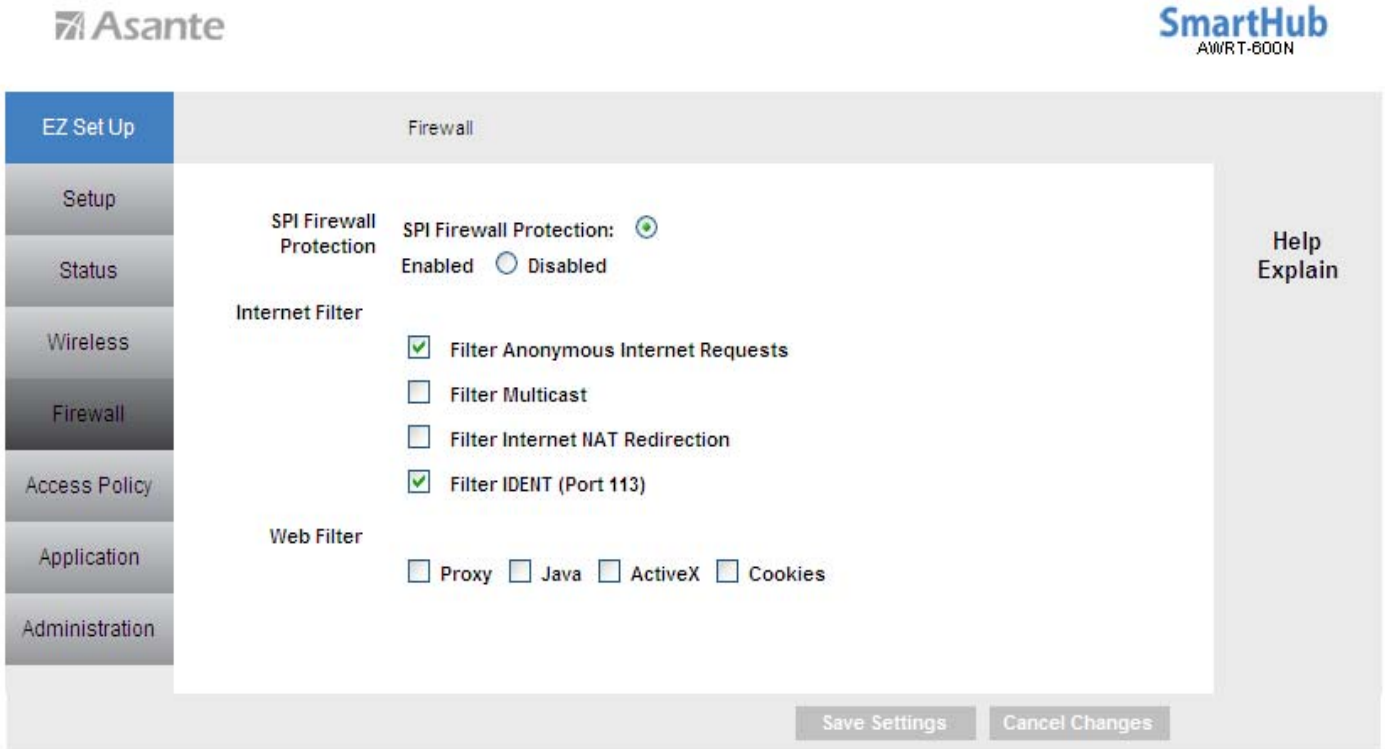
**RTS Threshold:** Should you encounter inconsistent data flow, only minor reduction of the default value, **2347**, is recommended. If a network packet is smaller than the preset RTS threshold size, the RTS/CTS mechanism will not be enabled. The Router sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should remain at its default value of **2347**.

Click **Save Settings** to save the settings.



## 6.3 Security

### 6.3.1 Security > Firewall



**SPI Firewall Protection:** Select to enable or disable Stateful Packet Inspection. When enabled, access to the router from internet/wan by various protocols like ICMP are denied.

**Internet Filter:** Place a check to enable various Internet filter including Anonymous Internet Requests, Multicast packets, NAT Redirection, and IDNT port.

**Web Filters:** You can select to filter Proxy, Java, ActiveX, and/or Cookies.

Click **Save Settings** to save the settings.

## 6.4 Access Restrictions

### 6.4.1 Access Restrictions > Internet Access Policy

You can setup policies that deny or allow specific clients to access the internet.



<b>EZ Set Up</b>	Internet Access Policy	
Setup	<b>Internet Access Policy</b>	
Status	Access Policy: 1() <input type="button" value="Delete This Entry"/> <input type="button" value="Summary"/>	
Wireless	Enter Policy Name: <input type="text"/>	
Firewall	Status: <input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	
<b>Access Policy</b>	Applied PCs <input type="button" value="Edit List"/> (This Policy applies only to PCs on the List.)	
Application	Access Restriction <input checked="" type="radio"/> Deny <input type="radio"/> Allow Internet access during selected days and hours.	
Administration	Schedule Days: <input checked="" type="checkbox"/> Everyday <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat	
	Timing Control: <input checked="" type="radio"/> 24 Hours <input type="radio"/> 0:0 to 0:0	
	Website Blocking by URL Address URL 1: <input type="text"/> URL 2: <input type="text"/> URL 3: <input type="text"/> URL 4: <input type="text"/>	
	Keyword 1: <input type="text"/> Keyword 2: <input type="text"/>	

Help  
Explain

**Access Policy:** Select a policy number from the drop down list.

**Enter Policy Name:** Enter a name for the policy.

**Status:** Choose to **Enable** or **Disable** the selected policy.

### Applied PCs

Click on the **Edit List** button to specify the network clients. Policy only applies to the PCs that are in the list.



List of PCs

MAC Address			
01	<input type="text" value="00:00:00:00:00:00"/>	06	<input type="text" value="00:00:00:00:00:00"/>
02	<input type="text" value="00:00:00:00:00:00"/>	07	<input type="text" value="00:00:00:00:00:00"/>
03	<input type="text" value="00:00:00:00:00:00"/>	08	<input type="text" value="00:00:00:00:00:00"/>
04	<input type="text" value="00:00:00:00:00:00"/>	09	<input type="text" value="00:00:00:00:00:00"/>
05	<input type="text" value="00:00:00:00:00:00"/>	10	<input type="text" value="00:00:00:00:00:00"/>

---

IP Address			
01	<input type="text" value="192.168.1.0"/>	04	<input type="text" value="192.168.1.0"/>
02	<input type="text" value="192.168.1.0"/>	05	<input type="text" value="192.168.1.0"/>
03	<input type="text" value="192.168.1.0"/>	06	<input type="text" value="192.168.1.0"/>

---

IP Address Range			
01	<input type="text" value="192.168.1.0"/>	<input type="text" value="~"/>	<input type="text" value="0"/>
03	<input type="text" value="192.168.1.0"/>	<input type="text" value="~"/>	<input type="text" value="0"/>
02	<input type="text" value="192.168.1.0"/>	<input type="text" value="~"/>	<input type="text" value="0"/>
04	<input type="text" value="192.168.1.0"/>	<input type="text" value="~"/>	<input type="text" value="0"/>

You can specify each client by its MAC Address or IP Address. You can also specify a group of clients by entering their IP Address Range. Once you have specified all the clients, click **Save Settings**.

### Access Restriction & Schedule

Select to **Deny** or **Allow** the specified clients to access the Internet by **Day** and **Time**.

Schedule

Days:  Everyday  Sun  Mon  Tue  Wed  Thu  Fri  Sat

Timing Control:  24 Hours   :  to  :

## Website Blocking

You can block the specified clients from accessing certain websites by URL or Keyword. Enter the URL or the Keyword you wish to block.

Website Blocking by URL Address	URL 1: <input type="text"/>	URL 2: <input type="text"/>
	URL 3: <input type="text"/>	URL 4: <input type="text"/>
Website Blocking by Keyword	Keyword 1: <input type="text"/>	Keyword 2: <input type="text"/>
	Keyword 3: <input type="text"/>	Keyword 4: <input type="text"/>

Click **Save Settings** to save the settings.

To view all the policies, click the **Summary** button.

Asante SmartHub AWRT-600N

Internet Access Policy

Access Policy: 1()

Enter Policy Name:

Status:  Enabled  Disabled

Applied PCs  (This Policy applies only to PCs on the List.)

Access Restriction:  Deny  Allow Internet access during selected days and hours.

Help Explain

## Blocked Applications

After you selected **Allow** Internet accessing for Access Restriction, you can configure the Internet applications you want to block.

Select application port you want to block and click **>>** button to add it into Blocked List when the specified PCs have Internet access. Click **<<** button to remove applications from the Blocked List.

If you have a custom application, manually enter its name, port range, protocol and click **Add** to add it into the "Applications" List

**Access Restriction**

Deny

Allow Internet access during selected days and hours.

**Schedule**

Days:  Everyday  Sun  Mon  Tue  Wed  Thu  Fri  Sat

Timing Control:  24 Hours  0:00 to 0:00

---

**Website Blocking by URL Address**

URL 1:  URL 2:  URL 3:

URL 4:

**Website Blocking by Keyword**

Keyword 1:  Keyword 2:

Keyword 3:  Keyword 4:

---

**Blocked Applications**

Note: Only three applications can be blocked per policy.

Applications	Blocked List
DNS ( 53-53)	<input type="checkbox"/>
HTTP ( 80-80)	
HTTPS ( 443-443)	
FTP ( 21-21)	
POP3 ( 110-110)	
IMAP ( 143-143)	
SMTP ( 25-25)	
NNTP ( 119-119)	
SNMP ( 161-161)	
Telnet ( 23-23)	
Game ( 1000-1200)	
Ping ( 0-0)	

Application Name:

Port Range:  to

Protocol:

Click **Save Settings** to save the settings.

## 6.5 Applications & Gaming

### 6.5.1 Applications & Gaming > Single Port Forwarding

If you want to host ftp server or online gaming, you must open up ports on the router. This page allows you to setup single port forwarding for the specified applications.

**Note:** Before using forwarding, you should assign static IP addresses to the designated PCs.

The screenshot shows the Asante SmartHub AWRT-600N web interface. The main content area is titled "Single Port Forwarding" and contains a table for configuring port forwarding rules. The table has five columns: "External Port", "Internal Port", "Protocol", "To IP address", and "Enabled". The "External Port" column contains five rows with "--" and five rows with "0". The "Internal Port" column contains five rows with "--" and five rows with "0". The "Protocol" column contains five rows with "--" and five rows with "Both". The "To IP address" column contains five rows with "192.168.1.0" and five rows with "192.168.1.0". The "Enabled" column contains five rows with an unchecked checkbox and five rows with a checked checkbox. Below the table are two buttons: "Save Settings" and "Cancel Changes".

External Port	Internal Port	Protocol	To IP address	Enabled
--	--	--	192.168.1.0	<input type="checkbox"/>
--	--	--	192.168.1.0	<input type="checkbox"/>
--	--	--	192.168.1.0	<input type="checkbox"/>
--	--	--	192.168.1.0	<input type="checkbox"/>
--	--	--	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>
0	0	Both	192.168.1.0	<input type="checkbox"/>

**Application Name:** Select or enter an **Application Name**.

**External Port/ Internal Port:** If you are only forwarding one port, you can put the same port number in both the **External** and **Internal** Port boxes.

**Protocol:** IP protocol to forward.

**To IP Address:** This should be the IP address of the computer you want to forward the ports to.

Make sure that you check the **Enabled** box to activate the setting, then click **Save Settings** to save the settings.

## 6.5.2 Applications & Gaming > Port Range Forwarding

If you want to host ftp server or online gaming, you must open up ports on the router. This page allows you to setup port range forwarding for the specified applications.

*Note: Before using forwarding, you should assign static IP addresses to the designated PCs.*

Asante SmartHub AWRT-600N

Single Port Forwarding | Port Range Forwarding | DMZ | QoS

Application Name	Start ~ End Port	Protocol	To IP address	Enabled
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> to <input type="text"/>	Both	192.168.1.0	<input type="checkbox"/>

Save Settings Cancel Changes

**Application Name:** Enter an **Application Name**.

**Start ~ End Port:** If you are only forwarding one port, you can put the same port number in both the **Start** and **End Port** boxes.

**Protocol:** If you are not sure which protocol to choose, select both.

**To IP Address:** This should be the IP address of the computer you want to forward the ports to.

Make sure that you check the **Enabled** box to activate the setting, then click **Save Settings** to save the settings.

### 6.5.3 Applications & Gaming > DMZ

DMZ (De-Militarized Zone) is a host without the protection of the router's firewall. It allows a computer to be exposed to unrestricted two-way communication with the Internet. You should only use this feature when the Port Forwarding function fails to make an application work.

**Warning:** Setting your computer as a DMZ host exposes it to various security vulnerabilities. This feature should be used only when needed.

The screenshot displays the DMZ configuration interface for the Asante SmartHub AWR7-600N. The interface includes a navigation menu on the left with options like EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'DMZ' and shows the following settings:

- DMZ Configuration:  Enabled  Disabled
- Source IP Address:  Any IP Address  [0].[0].[0].[0] to [0]
- Destination:  IP Address: 192.168.1.[0]  MAC Address: [00:00:00:00:00:00]

At the bottom of the configuration area, there is a 'DHCP Client Table' button and two main action buttons: 'Save Settings' and 'Cancel Changes'.



**DMZ:** Select to enable or disable DMZ.

**Source IP Address:** Specify the IP address that can communicate with the DMZ host.

**Destination:** Specify the IP Address or MAC Address of the DMZ host.

**Note:** Any DMZ host should have a new static IP address assigned to it because its IP address may change when using the DHCP function.

Click **Save Settings** to save the settings.

## 6.5.4 Applications & Gaming > QoS

QoS (Quality of Service) manages information as it is transmitted and received. It ensures better service to those applications with a higher priority.

The screenshot shows the Asante SmartHub AWRT-600N web interface. The navigation sidebar on the left includes: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'QoS (Quality of Service)' and includes the following configuration options:

- WMM Support:  Enabled  Disabled (Default: Enabled)
- Wireless No Acknowledgement:  Enabled  Disabled (Default: Disabled)
- Internet Access Priority:  Enabled  Disabled
- Category: Applications
- Applications: MSN Messenger
- Priority: Medium (Recommend)
- Buttons: Add, Save Settings, Cancel Changes

A summary table is located at the bottom of the configuration area:

Priority	Name	Information		

## **Wireless**

**WMM Support:** WMM is a wireless Quality of Service feature that improves quality for audio, video, and voice applications by prioritizing wireless traffic. To use this feature, your wireless client devices in your network must support Wireless WMM.

**No Acknowledgement:** If you want to disable the Router's Acknowledgement feature, so the Router will not re-send data if an error occurs, select Enabled. Otherwise, keep the default, Disabled.

## **Internet Access Priority**

**Enabled/Disabled:** To use the QoS policies you set, select Enabled. Otherwise, select Disabled.

## Category

There are five categories available. Select one of the following: Applications, Online Games, MAC Address, Ethernet Port, or Voice Device.

## Applications

The screenshot shows the Asante SmartHub AWRT-600N web interface. The left sidebar contains navigation tabs: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'QoS (Quality of Service)' and includes options for WMM Support and No Acknowledgement. Under 'Internet Access Priority', the 'Enabled' radio button is selected. The 'Category' dropdown is set to 'Applications'. Below this, a table allows adding applications:

Applications	Priority
MSN Messenger	Medium (Recommend)

An 'Add' button is located below the table. At the bottom, there is a 'Summary' table with columns for Priority, Name, and Information.

Buttons for 'Save Settings' and 'Cancel Changes' are at the bottom right.

**Applications:** Select the appropriate application. If you select *Add a New Application*, follow the instructions in the “Add a New Application” section.

**Priority:** Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes. Your new entry will appear in the Summary list.

## Add a New Application

Asante SmartHub AWRT-600N

Single Port Forwarding | Port Range Forwarding | DMZ | QoS

QoS (Quality of Service)

Wireless

WMM Support:  Enabled  Disabled (Default: Enabled)

No Acknowledgement:  Enabled  Disabled (Default: Disabled)

Internet Access Priority:  Enabled  Disabled

Category: Applications

Applications	MSN Messenger
Priority	Medium (Recommend)

Add

Summary

Priority	Name	Information		
----------	------	-------------	--	--

Save Settings Cancel Changes

**Enter a Name:** Enter a name for this application.

**Port Range:** Enter the port range that the application will be using. For example, if you want to allocate bandwidth for FTP, you can enter 21-21. Select the protocol **TCP** or **UDP**, or select **Both**.

**Priority:** Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

The screenshot shows the Asante SmartHub AWRT-600N web interface. On the left is a navigation menu with options: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'QoS (Quality of Service)' and includes sub-sections for 'Wireless' and 'Internet Access Priority'. Under 'Wireless', there are radio buttons for 'WMM Support' (set to Enabled) and 'No Acknowledgement' (set to Disabled). Under 'Internet Access Priority', there are radio buttons for 'Enabled' (selected) and 'Disabled'. Below this is a 'Category' dropdown menu set to 'Online Games'. A table allows adding specific games with columns for 'Games' (set to 'Counter Strike') and 'Priority' (set to 'Medium (Recommend)'). An 'Add' button is below the table. At the bottom, there is a 'Summary' table with columns for 'Priority', 'Name', and 'Information'. At the very bottom of the interface are 'Save Settings' and 'Cancel Changes' buttons.

**Games:** Select the appropriate game.

**Priority:** Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

## MAC Address

The screenshot shows the Asante SmartHub AWRT-600N web interface. The left sidebar contains navigation tabs: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'QoS (Quality of Service)' and includes the following settings:

- WMM Support:  Enabled  Disabled (Default: Enabled)
- Wireless No Acknowledgement:  Enabled  Disabled (Default: Disabled)
- Internet Access Priority:  Enabled  Disabled
- Category: Online Games (dropdown)
- Games: Counter Strike (dropdown)
- Priority: Medium (Recommend) (dropdown)
- An 'Add' button is located below the priority dropdown.

At the bottom of the main content area, there is a 'Summary' section with a table:

Priority	Name	Information		

At the bottom right of the interface, there are two buttons: 'Save Settings' and 'Cancel Changes'. The Asante logo is in the top left, and the SmartHub AWRT-600N logo is in the top right.

**Enter a Name** Enter a name for your network device.

**MAC Address** Enter the MAC address of your network device.

**Priority** Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

Single Port Forwarding | Port Range Forwarding | DMZ | QoS

**EZ Set Up**

Setup | Status | Wireless | Firewall | Access Policy | Application | Administration

**QoS (Quality of Service)**

WMM Support:  Enabled  Disabled (Default: Enabled)

Wireless No Acknowledgement:  Enabled  Disabled (Default: Disabled)

Internet Access Priority:  Enabled  Disabled

Category: Ethernet Port

Ethernet	Priority
Ethernet Port 1	Ethernet Port 1
Ethernet Port 2	Ethernet Port 2
Ethernet Port 3	Ethernet Port 3
Ethernet Port 4	Ethernet Port 4

Summary

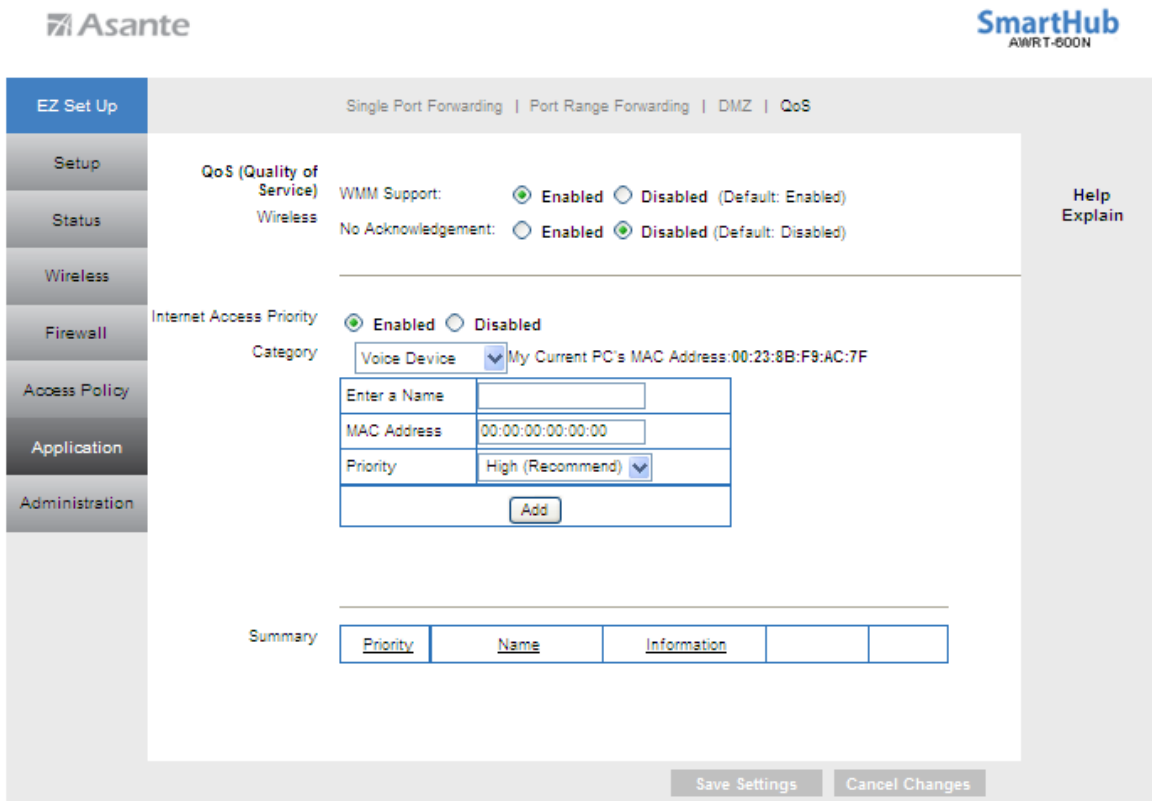
Priority	Name	Information		

Save Settings | Cancel Changes

Help Explain

**Ethernet:** Select the Ethernet port that you want to configure.

**Priority:** Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.



**Enter a Name:** Enter a name for your voice device such as VoIP or IP Phone.

**MAC Address:** Enter the MAC address of your voice device.

**Priority:** Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

Click **Save Settings** to save the settings.

## Summary

Summary shows the configuration for various application priorities. You can Remove or Edit the configuration from this list.



## 6.6 Administration

### 6.6.1 Administration > Management

The Management screen allows you to change the router's log in password as well as other administrative settings.

The screenshot displays the Asante SmartHub AWRT-800N Management interface. The left sidebar contains navigation options: EZ Set Up, Setup, Status, Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled 'Management' and includes a breadcrumb trail: Management | Log | Diagnostics | Factory Defaults | Firmware Upgrade. The 'Management' section is divided into several categories:

- EZ Setup:** EZ Setup:  Enabled  Disabled
- Web Access:** Web Utility Access:  HTTP  HTTPs; Web Utility Access via Wireless:  Enabled  Disabled
- Remote Access:** Remote Management:  Enabled  Disabled; Web Utility Access:  HTTP  HTTPs; Remote Upgrade:  Enabled  Disabled; Allow Remote IP Address:  Any IP Address;  [ ] . [ ] . [ ] . [ ] to [ ]
- UPnP:** UPnP:  Enabled  Disabled; Allow Users to Configure:  Enabled  Disabled; Allow Users to Disable Internet Access:  Enabled  Disabled

At the bottom, there are buttons for 'Backup Configurations', 'Restore Configurations', 'Save Settings', and 'Cancel Changes'.

**EZ Setup:** Select to enable or disable **EZ Setup**. If **EZ Setup** is disabled, the user is allowed to access internet whenever he/she is connected to the router. If enabled, the user is required to enter username/password to access the internet.

**Web Access:** Select to enable or disable HTTPs and Wireless access for the Web Configuration Utility.

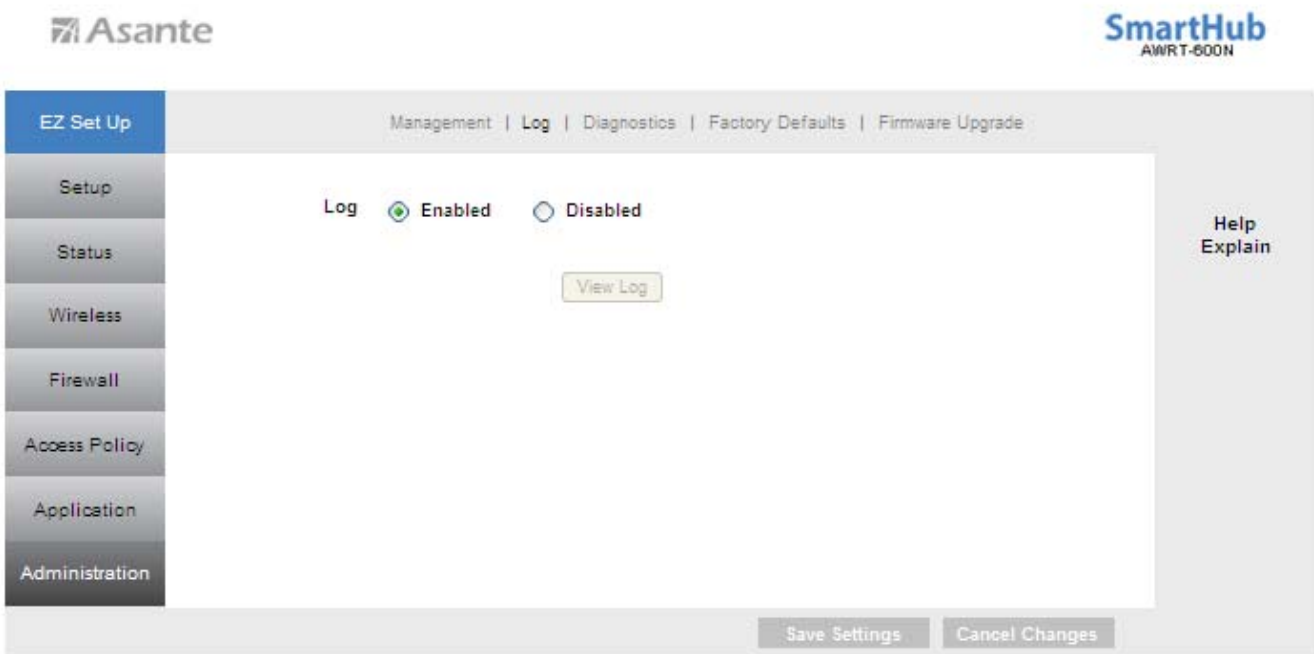
**Remote Access:** Select to enable or disable remote management/upgrade of the router. You can allow remote management from any IP Address or a specified IP Address as well as the port number.

**Backup and Restore Configurations:** You can choose to backup the router's settings so that you don't have to manually configure the settings again if you reset the router to factory default.

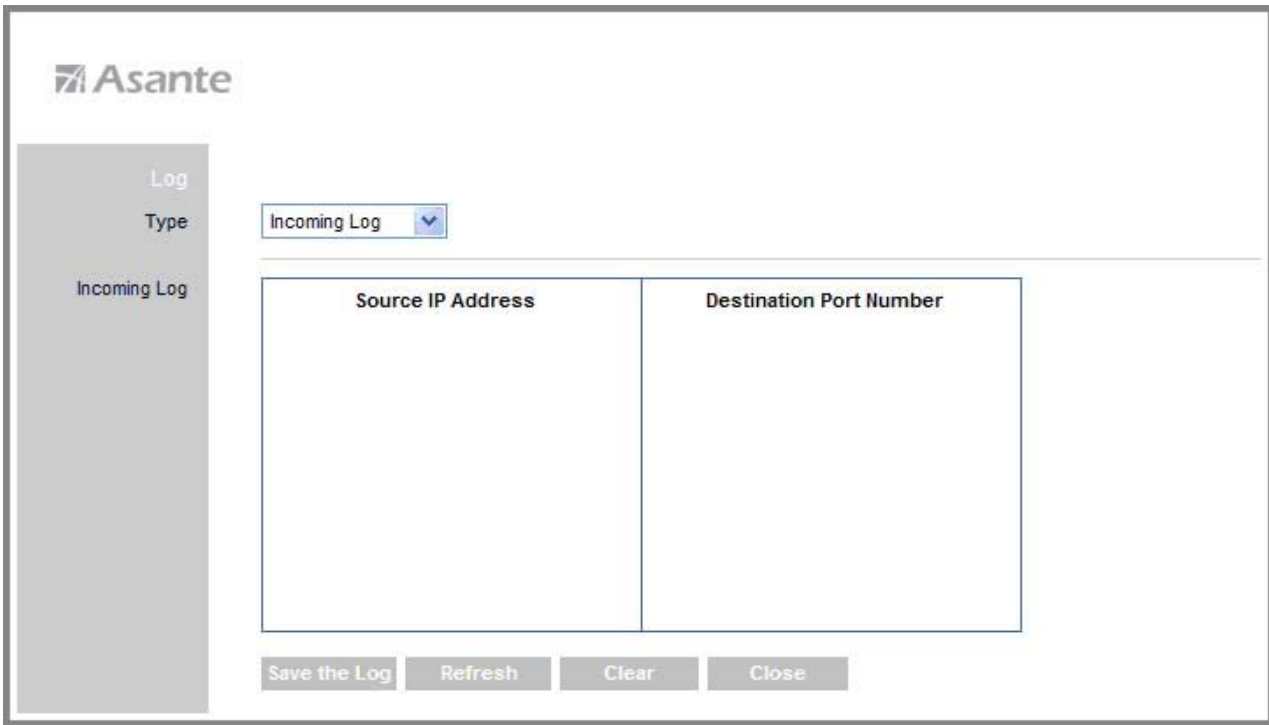
**UPnP:** Universal Plug and Play (UPnP) allows Windows Me and XP to automatically configure the router for various Internet applications, such as gaming and videoconferencing.

## 6.6.2 Administration > Log

You can choose to **Enable** or **Disable** logging of your network activity on this screen.

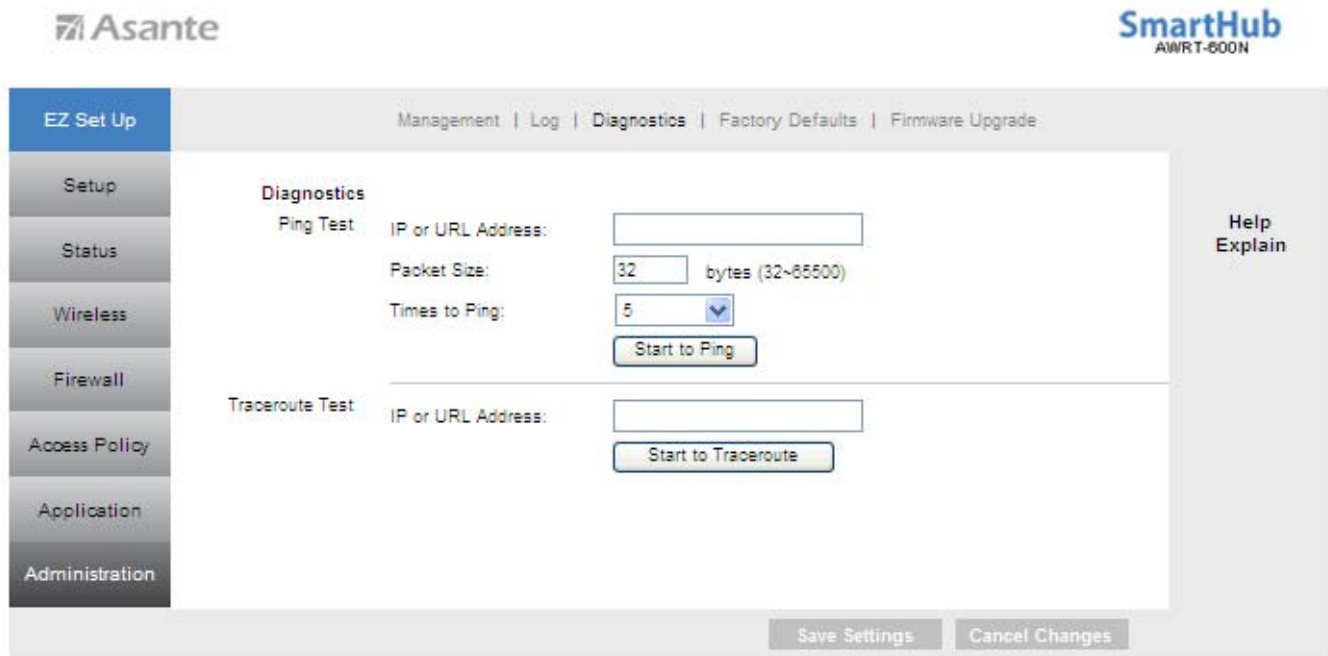


Click **View Log** to view the detailed log.



### 6.6.3 Administration > Diagnostics

The Diagnostics screen allows you to perform Ping and Traceroute tests.

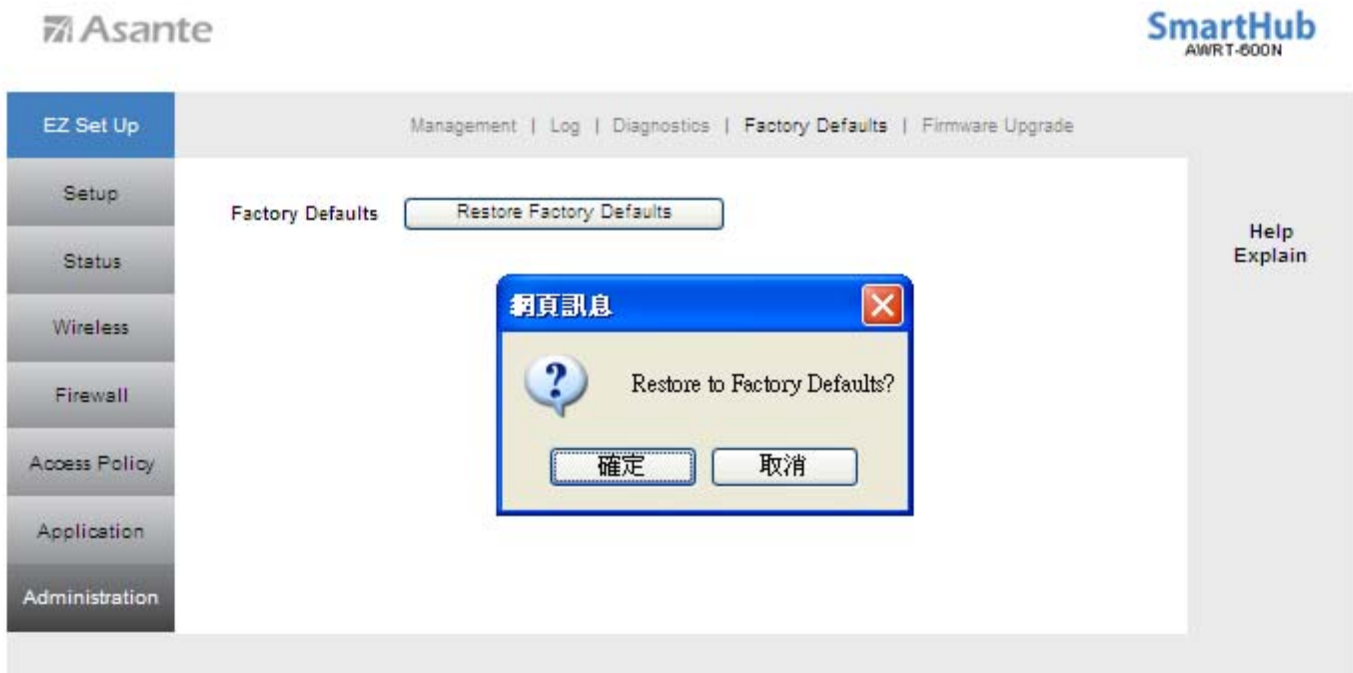


**Ping Test:** Enter the IP or URL Address you wish to ping and click **Start to Ping**.

**Traceroute:** Enter the IP or URL Address you wish to trace and click **Start to Traceroute**.

## 6.6.4 Administration > Factory Defaults

The Factory Defaults screen allows you to set all the router's settings to the factory default.



Click on the **Restore Factory Defaults** button to restore all the settings to default and click **OK** to continue.

## 6.6.5 Administration > Firmware Upgrade

The Firmware Upgrade screen allows you to upgrade the router's firmware.

Asante SmartHub AWRT-600N

Management | Log | Diagnostics | Factory Defaults | Firmware Upgrade

EZ Set Up

Setup

Status

Wireless

Firewall

Access Policy

Application

Administration

Firmware Upgrade

Check For New Firmware Version :

Please select a file to upgrade:

**Warning:** Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button.

0%

Upgrade must NOT be interrupted !!

Help Explain

You must download and unzip the new firmware first from [www.asante.com](http://www.asante.com)

Click on **Browse** to browse to the new firmware, and click **Start to Upgrade**.

## 6.7 Status

### 6.7.1 Status > Router

The Router screen displays various status of the router including the firmware version.

**Asante** **SmartHub**  
AWRT-800N

EZ Set Up | Router | Local Network | Wireless Network

**Router Information**

Firmware Version:	1.0.01
SN:	1234567890
Current Time:	Thu Nov 19 03:21:03 2009 (GMT -08:00)
Internet MAC Address:	00:21:00:78:4C:9D
Host Name:	Asante
Domain Name:	Asante

---

**Internet Connection**

Connection Type:	Automatic Configuration - DHCP
Internet IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
DNS	0.0.0.0
MTU	Auto

Help Explain

Click on the **Refresh** button to reload the screen.

## 6.7.2 Status > Local Network

Router | Local Network | Wireless Network

**Local Network**

Local MAC Address: 00:21:00:78:4C:9C  
Router IP Address: 192.168.1.1  
Subnet Mask: 255.255.255.0

**DHCP Server**

DHCP Server: Enabled  
Start IP Address: 192.168.1.100  
End IP Address: 192.168.1.149

DHCP Client Table

Refresh

Help Explain

Click on the **DHCP Client Table** to display a list of all the DHCP clients in your network.

DHCP Client Table

Sort by IP Address

Client Name	Interface	IP Address	MAC Address	Expired Time	
Katie_Tung-NB01	LAN	192.168.1.100	00:23:8B:F9:AC:7F	22hr:1min:59sec	Delete

Refresh Close

## 6.7.3 Status > Wireless Network

The Wireless Network screen displays various status about your wireless network.

The screenshot shows the Asante SmartHub AWRT-600N interface. At the top left is the Asante logo, and at the top right is the SmartHub AWRT-600N logo. Below the logos is a breadcrumb trail: Router | Local Network | Wireless Network. On the left side, there is a vertical navigation menu with the following items: EZ Set Up (highlighted in blue), Setup, Status (highlighted in dark grey), Wireless, Firewall, Access Policy, Application, and Administration. The main content area is titled "Wireless Network" and displays the following status information:

MAC Address:	00:21:00:78:4C:9C
Mode:	BGN-Mixed
Network Name (SSID):	SmartHub-AWRT600N
Radio Band:	Auto - 20/40MHz Channel
Standard Channel:	Auto
Extension Channel:	Auto
Firewall:	Disabled
SSID Broadcast:	Enabled

At the bottom right of the main content area, there is a "Refresh" button. On the right side of the interface, there is a vertical sidebar with "Help" and "Explain" links.



## 7. Specifications

### Standards

- IEEE 802.11n draft 2.0
- IEEE 802.11a / b / g

### Frequency

- 2.4 / 5 GHz (Switchable)

### Ports

- 1 x 10/100Mbps WAN port
- 4 x 10/100Mbps LAN port

### Antenna type

- 3 Internal 2 dBi antennas

### Security

- WPA2, WPA, WEP 64/128-bit
- Wireless MAC Filter
- AP Isolation

### LEDs

- Power, Internet, Wireless, LAN1~4, WPS

### Advanced Features

- Quality of Service (QoS)
- Stateful Packet Inspection (SPI) / DoS
- VPN Pass-through
- UPnP

### WiFi Protected Setup

- PIN (Personal Identification Number)
- PBC (Push button configuration)

### System Requirement

- Windows®, Mac®, or Linux® operating system
- Installed Ethernet adapter
- Recommended use with AWLL7025

### Power

- Input: 100~240V AC, 50~60Hz
- Output: 12V / 1A

### Dimensions

- 179 x 132 x 28 mm

### Temperature

- Operating: 0°C to 40°C

### Humidity

- 10% to 95% Non-Condensing

### Warranty

- Limited 1-year warranty

### Certification

- FCC, CE, C-Tick, UL, TUV

## App Appendix – Information

### **Federal Communication Commission Interference Statement**

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

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

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC 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.

### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with CardBus slot, and product could be used in typical laptop computer with CardBus slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

Caution:

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

### **IMPORTANT NOTE: IC Radiation Exposure Statement:**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### **Europe – EU Declaration of Conformity**

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:


- **EN60950-1: 2006**  
Safety of Information Technology Equipment
- **EN50385 : (2002-08)**
- Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public
- **EN 300 328 V1.7.1: (2006-10)**
- Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- **EN 301 893 V1.4.1: (2007-07)**







- Broadband Radio Access Networks (BRAN);5 GHz high performance RLAN;Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive  
**EN 301 489-1 V1.6.1: (2005-09)**  
Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- **EN 301 489-17 V1.2.1 (2002-08)**
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

**CE 0560** 

 Český [Czech]	<i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erkläre <i>[Name des Herstellers]</i> , dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>[name of manufacturer]</i> , declares that this <i>[type of equipment]</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español [Spanish]	Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

## Technical Support

E-mail: [support@asante.com](mailto:support@asante.com)

Toll Free: 1-877-262-0324

Web Site: [www.asante.com](http://www.asante.com)

\*Theoretical maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate. This product is based on IEEE draft 802.11n specification and is not guaranteed to be compatible with future versions of IEEE 802.11n specification. Compatibility with draft 802.11n devices from other manufactures is not guaranteed. Specifications are subject to change without notice. Photo of product may not reflect actual content. All products and trademarks are the property of their respective owners. Copyright ©2009 AWRT-600N®

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