



Wireless Access Point – N

(P/N DA1101)

Owner's Manual

1308137 Rev. B

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules and RSS-210 Issue 8 of Canada. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- 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 for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (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 or more 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.

Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.

Canadian Department of Communications

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC Radio Frequency Exposure Caution Statement

In order to maintain compliance with the FCC RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use only with supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations. Any changes of modifications not expressly approved by the grantee of this device could void the users authority to operate the equipment.

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the

user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution or attachment of connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Declaration of Conformity (R&TTE directive 1999/5/EC)

The following items were completed and are considered relevant and sufficient:

- Essential requirements as in [Article 3]
- Protection requirements for health and safety as in [Article 3.1a]
- Testing for electric safety according to [EN 60950]
- Protection requirements for electromagnetic compatibility in [Article 3.1b]
- Testing for electromagnetic compatibility in [EN 301 489-1] & [EN 301]
- Testing according to [489-17]
- Effective use of the radio spectrum as in [Article 3.2]
- Testing for radio test suites according to [EN 300 328-2]

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. THE UNIT MUST NOT BE EXPOSED TO DRIPPING OR SPLASHING WATER.

CAUTION: DO NOT OPEN THE UNIT. DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE INSTALLATION AND TROUBLESHOOTING INSTRUCTIONS. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: THIS DEVICE MUST BE INSTALLED AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AS DESCRIBED IN THE USER DOCUMENTATION THAT COMES WITH THE PRODUCT.

WARNING: POSTPONE INSTALLATION UNTIL THERE IS NO RISK OF THUNDERSTORM OR LIGHTNING ACTIVITY IN THE AREA.

When using this device, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- Read all of the instructions {listed here and/or in the user manual} before you operate this equipment.
- Give particular attention to all safety precautions.

- Retain the instructions for future reference.
- Comply with all warning and caution statements in the instructions.
- Observe all warning and caution symbols that are affixed to this equipment.
- Comply with all instructions that accompany this equipment.
- Avoid using this product during an electrical storm. There may be a risk of electric shock from lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the power supply, and disconnect the Cat 5e to the N-WAP at the POE Inserter. This will prevent damage to the product due to lightning and power surges. It is recommended that the customer install an AC surge protector in the AC outlet to which this device is connected. This is to avoid damaging the equipment by local lightning strikes and other electrical surges. A Data Surge Conditioning Unit is also available from Legrand (P/N 364598-01) to help protect the data connection from the POE Injector to the N-WAP.
- Operate this product only from the type of power source indicated on the product's marking label.
- If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

Installation of this product must be in accordance with national wiring codes and conform to local regulations.

Place POE Inserter to allow for easy access when disconnecting the power cord/adaptor of the device from the AC wall outlet.

Wipe the unit with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the unit or use forced air to remove dust.

When not utilizing the recommended 3-gang or 1-gang plastic switch & outlet box, do not directly cover the device, or block the airflow to the device with insulation or any other objects.

Keep the device away from excessive heat and humidity and keep the device free from vibration and dust.

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Chapter 1

Introduction

Overview

Integrating the cutting edge of Internet Telephony and Access Point manufacturing experience, Legrand now introduces the latest member of our Wireless Access Point family: the DA1101 N-WAP.

The N-WAP provides high-performance Access Point (AP) function for flexible wireless communication.

With built-in IEEE 802.11b/g/n wireless network capability, the N-WAP allows any computer and wireless enabled network client connect to it without additional cabling. The 802.11n wireless capability gives users the highest speed of wireless experience ever. With an 802.11n compatible wireless adapter installed in your PC, the files can be transferred at up to 300Mbps. The radio coverage is also doubled to offer the high speed wireless connection in an even wider space of your office or house.

To secure the wireless communication, the N-WAP supports most up-to-date encryption: WEP, WPA-PSK and WPA2-PSK. In addition, the N-WAP supports WPS configuration with PBC/PIN type for users to connect to a secured wireless network easily.

Product Features

- IEEE 802.11b/g/n wireless standard compliant
- Multi-mode: AP, Client, Repeater and Router Mode
- Supports 64/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK and 802.1x encryption

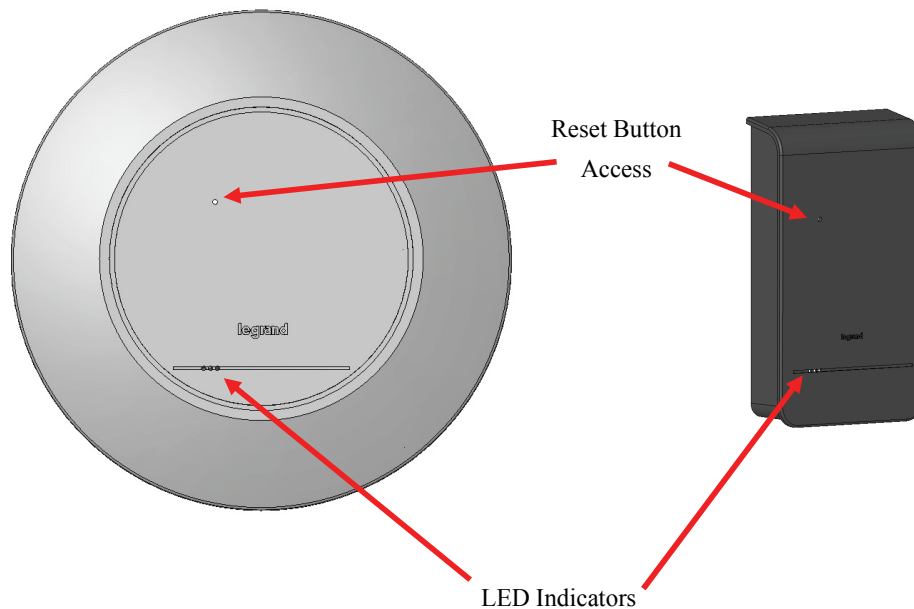
Package Content

The contents of your product package should include the following items:

- DA1101 802.11n Wireless Access Point
- POE Module w/AC adapter
- Installation Bracket
- Round and Rectangular Cover
- Installation/Instruction Sheet
- A CD containing this manual and a utility (PC-based .exe file) used to find the N-WAP's IP address given to it by the router it is attached to (AP Mode). See **Appendix C** for more detail.

Physical Details

The following figure illustrates the 3-gang (round) and 1-gang (rectangular) versions of an installed DA1101 N-WAP. For additional mounting information and best practices suggestions, refer to Appendix E.

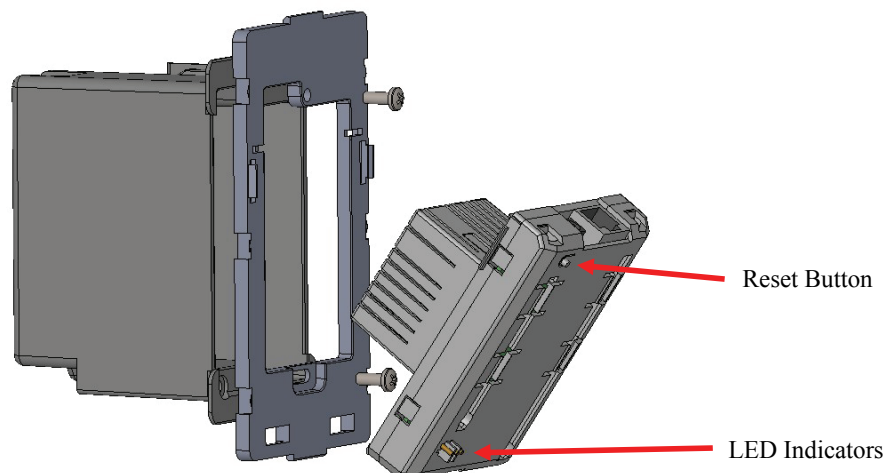


LED Indicators:

LED	Color	State	Descriptions
Ethernet	Green	Solid Green Blinking Green	Power Present Ethernet Active
Power	Blue/Orange	Blue Solid Orange Blinking Orange	Power OK Initializing Signal Survey
WiFi	Green/Red	Solid Green Blinking Green Red	Connected Streaming in Session No WiFi Signal

Reset Button:

The DA1101 has a reset button accessible through either cover or with the cover off that can be pushed and held for 10 seconds to reset the DA1101 to factory default condition (the IP address is reset to 192.168.40.253). To find the IP address of an installed and working N-WAP, run the utility program provided on the CD included with the product (see **Appendix C**).



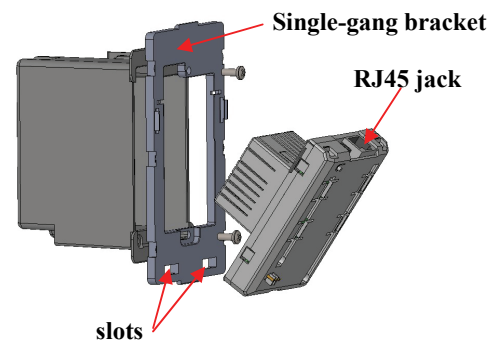
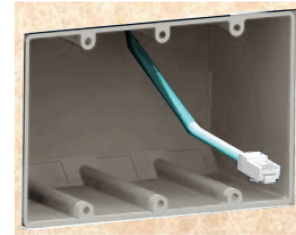
Chapter 2

Physical Installation

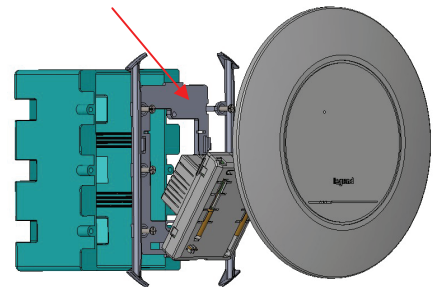
Physical Installation Steps

This chapter illustrates the physical installation of the DA1101 Wireless Access Point –N.

1. Run a Category 5 cable from the triple-gang or single-gang electrical box at the intended DA1101 room location to the POE module located in the structured wiring enclosure.
2. Make sure that the Power Supply is not connected to the POE module at this time.
3. Pull the Category 5 cable out from the electrical box through the supplied triple-gang or modified into a single-gang bracket and attach the bracket to the associated electrical box with the supplied screws.
4. Terminate the Cat 5 cable with an RJ45 plug and connect it to the RJ45 jack on the DA1101. The DA1101 is then snapped into the mounting bracket by first inserting the two tabs on one end into the slots on the bracket and tilting it until it is flush with the bracket, where it should snap into place.
5. If this is a triple-gang installation, line the feet on the triple gang bracket up with the indentions inside the round cover, and snap that cover in place. There is a protrusion inside the round cover that allows it only to be installed in the correct orientation. If this is a single-gang installation, simply hang the top of the rectangular cover on the single-gang bracket and tilt the cover to snap it into place.
6. In the enclosure, terminate the other end of the Cat 5 cable from the DA1101 with an RJ45 plug and connect it to the POE output RJ45 jack. A Cat 5 jumper is run from the POE input jack to a local router port.
7. Plug the power supply into the POE module and into an AC outlet, and refer to the next chapter for software configuration and operation information.

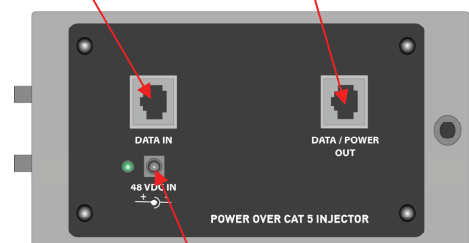


Triple-gang bracket



Cat 5 to router

Cat 5 to N-WAP



Power in from AC adapter

Chapter 3

Network Settings

Configuring and monitoring your DA1101 from web browser

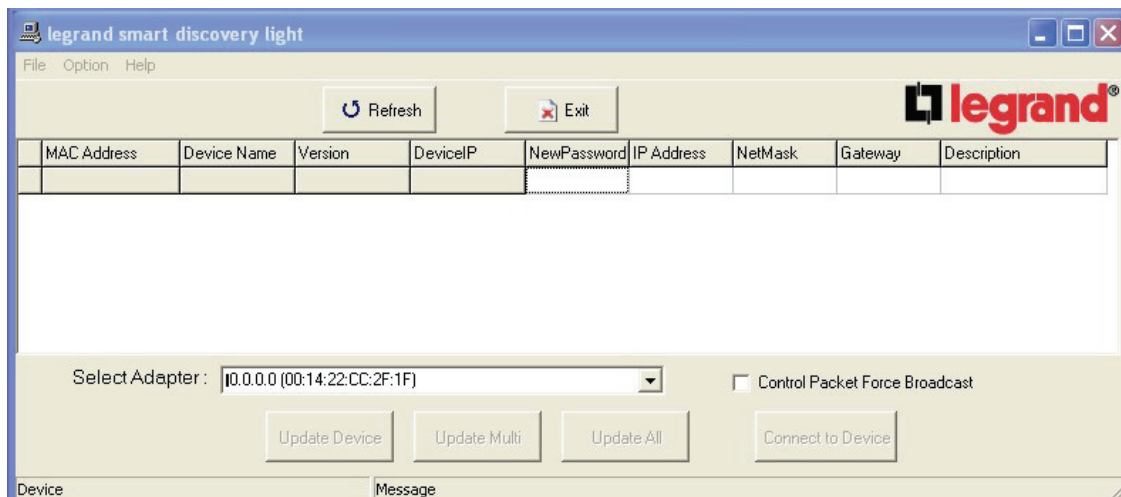
The DA1101 integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via a standard web browser, you can configure and check machine status from anywhere around the world.

NOTE: The DA1101 is designed as a DHCP device, which means it automatically gets an IP address from the router it is attached to. It is defaulted to AP mode (meaning it acts as a wireless Access Point for wireless devices around the home, like laptops) and those devices also get their IP address from the router that the DA1101 is attached to. No configuration is required for basic operation.

WARNING: By default, there is no security configured, which means anyone within range (even outside your home) can access your internet connection. To restrict access (configure security) or operate in a different mode other than AP, you must log onto your DA1101. To do this you must know its IP address, and we have provided a utility program for you to find the DA1101's IP address.

Using the DA-Discovery.exe program for configuration of the DA1101

The executable file "DA-Discovery.exe" is found on the CD provided with this product, and should be copied onto the desktop (or a known location) on the PC normally used for N-WAP configuration. With the PC set for DHCP (TCP/IP Settings), and connected to the router used for the N-WAP, simply run (double click) the utility program and the screen shown below will appear.



Click on the “Refresh” button, and the screen will be updated to show the IP addresses of all devices attached to the router, including the DA1101.

	MAC Address	Device Name	Version	DeviceIP	NewPassword	IP Address	NetMask	Gateway	Description
1	00-26-EC-C9-E2-74	DA1101	v2.4_20110728	192.168.40.3		192.168.40.3	255.255.255.0	192.168.1.1	Legrand

Select Adapter : 192.168.40.4 (00:0C:29:6D:41:75) ☐ Control Packet Force Broadcast

Update Device Update Multi Update All Connect to Device

Device : DA1101 (00-26-EC-C9-E2-74) Get Device Information done.

To configure the N-WAP simply highlight the DA1101 that you wish to connect to and click on the “Connect to Device” button and you will be shown the logon screen shown below.

Windows Security

The server 192.168.40.3 at Wireless Access Point requires a username and password.

Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).

admin

.....

☐ Remember my credentials

⚠ Caps Lock is on

OK Cancel

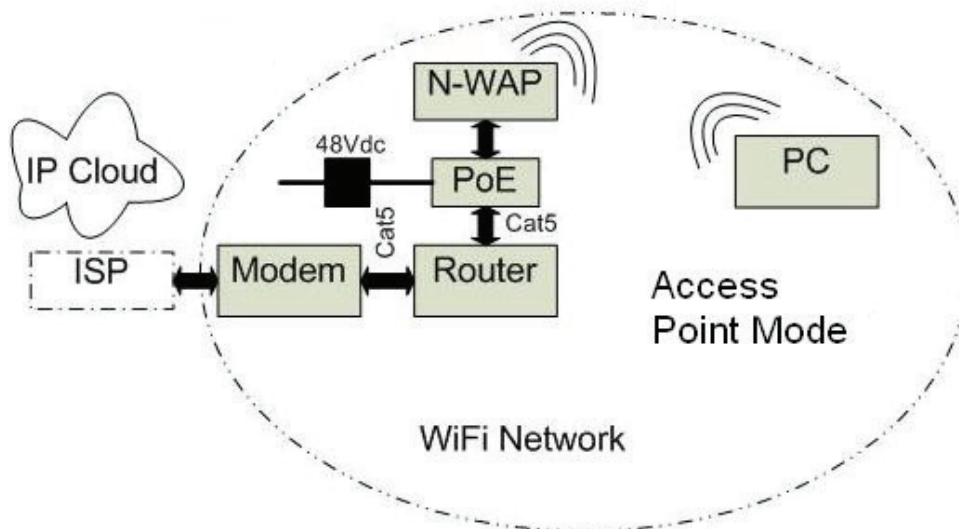
Simply type in “admin” for the logon and “admin” for the password to logon to the DA1101.

NOTE: If you are not attached to a router which provides you with an IP address, you may still manually logon to the DA1101 by performing the steps show in Appendix D, and if successful will end up at the same logon screen shown above.

When you successfully logon, you’ll be shown a screen where you can run the Setup Wizard, or opt to select a different function on the left side of the screen for manual setup. First, we’ll go through the simple Setup Wizard for AP Mode.

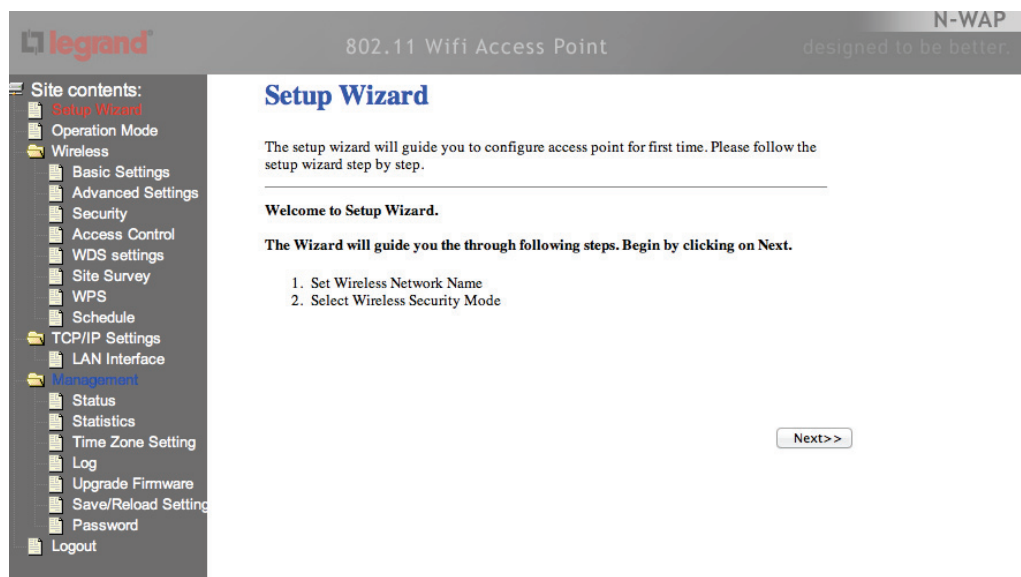
Running the Setup Wizard / Default AP Mode Overview

- The N-WAP automatically powers up in AP (Access Point) Mode, which is the default mode where the N-WAP is attached to a router, like our DA1004. The router then provides DHCP addressing (IP addresses) to any wirelessly connected devices (PCs).



In this AP Mode, the router acts as the DHCP server, so if its IP address is say 192.168.40.254, it will give out IP addresses to all DHCP configured wireless devices in that 192.168.40.xxx sub network, including the DA1101 and all wirelessly attached PCs.

Select the Setup Wizard on the left side of the screen and by clicking on Next on the Setup Wizard screen shown below, you will then name your N-WAP and setup its security.



Step 1. Set Wireless Network Name (SSID), and then click Next>>.

The screenshot shows the Legrand N-WAP 802.11 Wifi Access Point setup interface. On the left is a sidebar with 'Site contents' including Setup Wizard, Operation Mode, Wireless, TCP/IP Settings, Management, and Logout. The main area is titled '1. Set Wireless Network Name'. It contains the text 'You can enter the Wireless Network Name of AP.' followed by a text input field labeled 'Wireless Network Name(SSID):' with 'Legrand WiFi' entered. At the bottom are three buttons: 'Cancel', '<<Back', and 'Next>>'.

Step 2. Select Wireless Security Mode.

The screenshot shows the Legrand N-WAP 802.11 Wifi Access Point setup interface at Step 2: '2. Select Wireless Security Mode'. The sidebar is the same as in Step 1. The main area contains the text 'This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.' Below this is a dropdown menu labeled 'Encryption:' with 'None' selected. At the bottom are three buttons: 'Cancel', '<<Back', and 'Finished'.

NOTE: If you elect to select “None” for security as shown above, anyone within range of your N-WAP will be able to gain access to your network connection. See Chapter 5 “Wireless Settings” for a detailed overview of setting up security on the N-WAP.

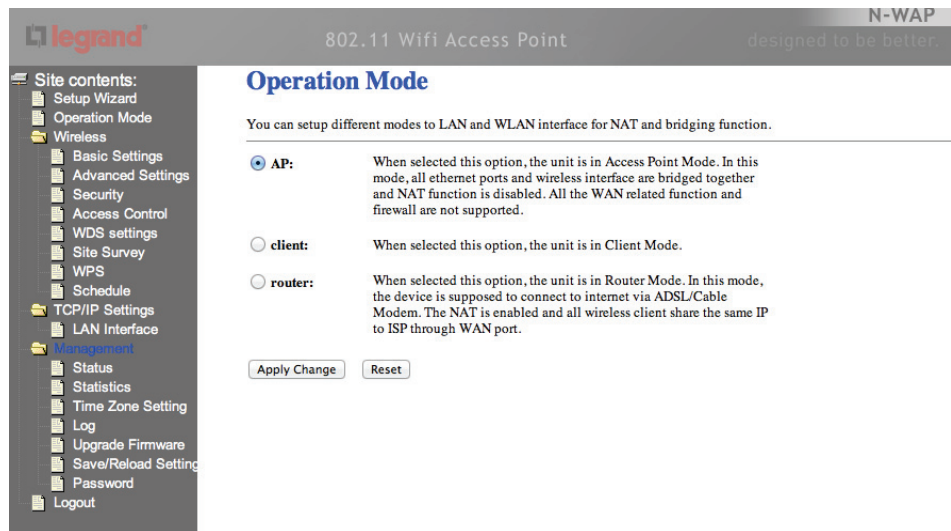
Step 3. Click the Finished button. You will then see the Finish page as shown below.

The DA1101 will reboot automatically to make your configuration take effect and finish the Setup.

The screenshot shows the Legrand N-WAP 802.11 Wifi Access Point setup interface at Step 3: 'Change setting successfully!'. The sidebar is the same as in Step 1. The main area contains the text 'Change setting successfully!', 'Do not turn off or reboot the Device during this time.', and 'Please wait 85 seconds ...'.

Operation Mode Selection

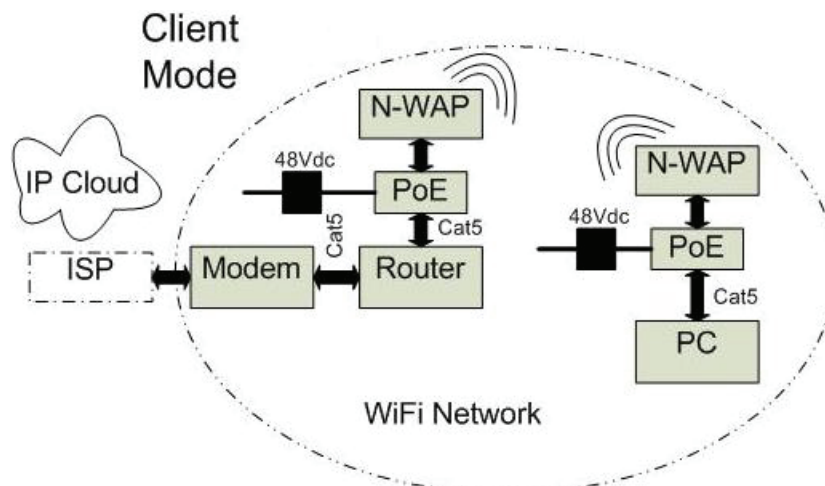
Besides AP Mode, there are three other Operational Modes that the N-WAP can be configured to support; Client Mode, Repeater Mode and Router Mode. Since most customers have a router already, and since we also sell a router (the DA1004), this manual will not cover that infrequently used mode. To get to the other modes, select “Operation Mode” from the left side of the screen and you’ll see the following screen:



NOTE: Repeater Mode is not selected from the Operation Mode screen, as it is a functional superset of the Client Mode, and is selected from the “Wireless” “Basic Settings” screen on an N-WAP which is already in Client Mode, so first, let’s go over the use of Client Mode.

Client Mode Overview

- Client Mode is used where a second DA1101 N-WAP is configured as a wireless remote client of the original N-WAP and connects directly to a LAN or PC (no wireless devices), while the original N-WAP connects to the router as in AP Mode. This could be useful if you have one or more PCs without wireless interfaces in a location within wireless range of your first N-WAP, but not easily hardwired to the original N-WAP location (ie. a boathouse or guard shack).



In this Client Mode, as in AP Mode, the router acts as the DHCP server, so if its IP address is say 192.168.40.254, it will give out IP addresses to all DHCP configured wireless devices in that 192.168.40.xxx sub network. The original N-WAP's default address is 192.168.40.253, assuming no DHCP server for this example, (the Default Gateway is still the router at 192.168.40.254.), and the Client N-WAP is configured with an IP address of 192.168.40.252. Its Gateway will still be the router attached to the first N-WAP at address 192.168.40.254. **NOTE: Remember, to find the actual IP address given to the N-WAP by a router, use the utility program provided on the CD that came with the N-WAP and which is described in *Appendix C*.**

NOTE: In order to configure the Client (second N-WAP), you'll need to first logon to its default address 192.168.40.253, then select its "Operation Mode" as Client. Then after it reboots, go to the "TCP/IP Settings" "LAN Interface" screen (shown below) and configure its IP address as 192.168.40.252 and its Gateway as 192.168.40.254 and disable DHCP.

The screenshot shows the web interface for a Legrand N-WAP. The top header includes the Legrand logo, the text "802.11 Wifi Access Point", and "N-WAP designed to be better.". On the left is a sidebar menu with "Site contents:" followed by links to "Setup Wizard", "Operation Mode", "Wireless", "TCP/IP Settings" (highlighted), "LAN Interface" (selected), "Management", and "Logout". The main content area is titled "LAN Interface Setup" and contains a descriptive paragraph: "This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..". Below this are several configuration fields: "IP Address:" (192.168.40.252), "Subnet Mask:" (255.255.255.0), "Default Gateway:" (192.168.40.254), "DHCP:" (Disabled), "DHCP Client Range:" (192.168.40.10 - 192.168.40.20 with a "Show Client" button), "Static DHCP:" (Set Static DHCP button), "Domain Name:" (Legrand), "802.1d Spanning Tree:" (Disabled), and "Clone MAC Address:" (000000000000). There is a checkbox for "Enable uPNP" which is checked. At the bottom are "Apply Changes" and "Reset" buttons.

IP Address:	192.168.40.252
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.40.254
DHCP:	Disabled
DHCP Client Range:	192.168.40.10 - 192.168.40.20 Show Client
Static DHCP:	Set Static DHCP
Domain Name:	Legrand
802.1d Spanning Tree:	Disabled
Clone MAC Address:	000000000000
☒ Enable uPNP	
Apply Changes Reset	

You'll also need to go to the "Wireless" "Basic Settings" screen (shown below), and change the SSID to something different than what you called the original N-WAP, and change its Network Type to "Infrastructure".

legrand 802.11 Wifi Access Point N-WAP designed to be better.

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

☐ Disable Wireless LAN Interface

Band: 2.4 GHz (B+G+N)

Mode: Client Multiple AP

Network Type: Infrastructure

SSID: N-WAP-Client

Channel Width: 40MHz

Control Sideband: Upper

Domain Region: ROC

Channel Number: 11

Broadcast SSID: Enabled

WMM: Enabled

You'll then need to go to the "Wireless" "Site Survey" screen and click "Site Survey" to search for the original N-WAP. Once you find it, select it (as shown below), and click "Next".

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Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

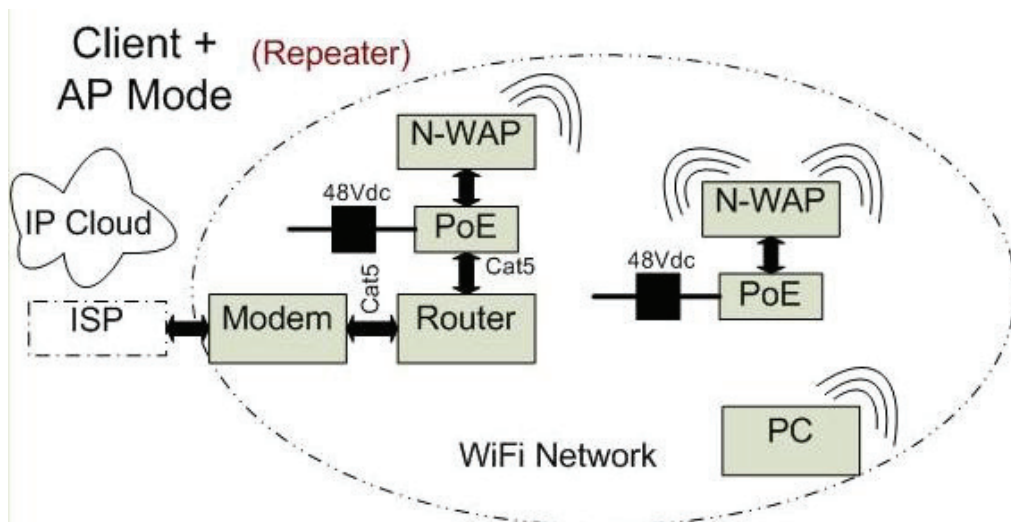
[Site Survey](#)

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
elsa	00:12:0e:21:d4:37	6 (B+G+N)	AP	WPA-PSK/WPA2-PSK	80	☐
WNAP63	00:12:0e:19:64:dc	1 (B+G+N)	AP	WPA-PSK	62	☐
N-WAP	00:12:0e:c9:e2:74	11 (B+G+N)	AP	no	62	☒

Then just click on "Connect". This tells the second N-WAP that he is a Client of the original N-WAP. At this point, the PC/s attached to the second N-WAP should be able to be configured to get IP addresses from the router, through the original N-WAP. Also, if you go to "Wireless" "Basic Settings", you should notice that the SSID of the second N-WAP has changed to that of the original N-WAP, and if you go to the original N-WAP "Wireless" "Basic Settings" "Show Active Clients" screen, you should be able to see the second N-WAP has been connected to the original N-WAP.

Repeater Mode Overview

- Repeater Mode (also called Client + AP Mode) is similar to Client Mode, but in this case the second N-WAP can support wireless devices within range to its location. Effectively, this is a range expansion of the original N-WAP, by using the second N-WAP as a repeater.



To get to Repeater Mode, your second N-WAP **must already be configured in Client Mode** (see previous section), then go to “Wireless” “Basic Settings” and select “Enable Universal Repeater Mode (Acting as AP and Client simultaneously)”, as shown on the screen below. You’ll also need to fill out the “SSID of Extended Interface” with the SSID that you gave the second N-WAP.

The screenshot shows the 'N-WAP' configuration interface, specifically the 'Basic Settings' tab. The interface is titled '802.11 Wifi Access Point' and 'N-WAP designed to be better.' The 'Network Type' is set to 'Infrastructure'. The 'SSID' is 'N-WAP'. The 'Channel Width' is '40MHz'. The 'Control Sideband' is 'Upper'. The 'Domain Region' is 'FCC'. The 'Channel Number' is '11'. The 'Broadcast SSID' is 'Enabled'. The 'WMM' is 'Enabled'. The 'Data Rate' is 'Auto'. The 'Associated Clients' section has a 'Show Active Clients' button. The 'Enable Mac Clone (Single Ethernet Client)' checkbox is unchecked. The 'Enable Universal Repeater Mode (Acting as AP and client simultaneously)' checkbox is checked. The 'SSID of Extended Interface' is 'N-WAP-2'. There are 'Apply Changes' and 'Reset' buttons at the bottom.

This completes the overview of the Setup Wizard, and the various Modes that are used by the DA1101 for typical residential networks.

The following screens provide more detailed information on many of the previously discussed settings and their associated parameters.

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your DA1101. Here you may change the setting for IP address, subnet mask, DHCP, etc..

802.11 Wifi Access Point

N-WAP
designed to be better.

Site contents:

Setup Wizard

Operation Mode

Wireless

TCP/IP Settings

LAN Interface

Management

Logout

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

IP Address:

192.168.40.253

Subnet Mask:

255.255.255.0

Default Gateway:

192.168.40.254

DHCP:

Auto

DHCP Client Range:

192.168.40.100

–

192.168.40.200

Show Client

Static DHCP:

Set Static DHCP

Domain Name:

Legrand

802.1d Spanning Tree:

Disabled

Clone MAC Address:

000000000000

☒ Enable uPNP

Apply Changes

Reset

IP Address	LAN IP Address of the DA1101 Default : 192.168.40.253
Subnet Mask	LAN mask of the DA1101 Default : 255.255.255.0
DHCP Server	You can select Server or Disable. If you select Disable, the DHCP service of LAN port is disabled. Default : Server
DHCP Client Range	The first and last IP address that DHCP server assigns. Default : 192.168.40.100 – 192.168.40.200
Static DHCP	It allows you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address Default : Disable
Domain Name	Set three alternatives Domain Name Server for LAN interface. Default : Null
802.11d Spanning Tree	Spanning Tree Protocol. You can select Enable or Disable. Default : Disable
Enable uPNP	Check to disable/enable the uPNP function. Default : Enable

WAN [Interface](#) Setup

Choose menu “TCP/IP Settings→WAN Interface”, you can configure the IP parameters of the WAN on the screen below when router mode is enabled.

WAN Access Type	DHCP Client	Connections which use dynamic IP address assignment.
	Static IP	Connections which use static IP address assignment.
	PPPoE	Connections which use PPPoE that requires a user name and password.
	PPTP	Connections which use a Point-to-Point Tunneling Protocol (PPTP) connection.
	L2TP	Connections which use a Layer2 Tunneling Protocol (L2TP) connection.
Attain DNS Automatically	Select to attain DNS automatically from your ISP.	
Set DNS Manually	Select to specify your own preferred DNS Server IP address. The DNS 2 or DNS 3 is optional. You can enter the secondary and the third DNS Server's IP address as an alternative of DNS 1.	
Clone MAC Address	Your ISP may require a particular MAC address in order for you to connect to the Internet. This MAC address is the PC's MAC address that your ISP had originally connected your Internet to. Type in this section to replace the WAN MAC address with the MAC address of that PC.	
Enable IGMP Proxy	Check to enable the IGMP Proxy function.	
Enable Ping Access on WAN	Check to enable the Ping Access on WAN function.	
Enable Web Server Access on WAN	Check to enable the Web Server Access on WAN function.	
Enable IPsec pass through on VPN connection	Check to enable the IPsec pass through on VPN connection function.	
Enable PPTP pass through on VPN connection	Check to enable the PPTP pass through on VPN connection function.	
Enable L2TP pass through on VPN connection	Check to enable the L2TP pass through on VPN connection function.	
Enable IPv6 pass through on VPN connection	Check to enable the IPv6 pass through on VPN connection function.	
Apply Changes	After completing the settings on this page, click Apply changes button to save the settings.	
Reset	Click Reset to restore to default values.	

■ [DHCP Client](#)

If your ISP provides the DHCP service, please choose DHCP Client type, and the Router will automatically obtain IP parameters from your ISP. You can see the page as follows.

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Site contents:
 Setup Wizard
 Operation Mode
 Wireless
 TCP/IP Settings
 LAN Interface
 WAN Interface
 Firewall
 QoS
 Route Setup
 Management
 Logout

WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type: DHCP Client

Host Name:

MTU Size: 1492 (1400-1492 bytes)

☒ **Attain DNS Automatically**
☐ **Set DNS Manually**

DNS 1:
DNS 2:
DNS 3:

Clone MAC Address: 000000000000

☒ **Enable IGMP Proxy**
☐ **Enable Ping Access on WAN**
☐ **Enable Web Server Access on WAN**
☒ **Enable IPsec pass through on VPN connection**
☒ **Enable PPTP pass through on VPN connection**
☒ **Enable L2TP pass through on VPN connection**
☐ **Enable IPv6 pass through on VPN connection**

Apply Changes Reset

The page includes the following fields:

Object	Description
Host Name	This option specifies the Host Name of the Router.
MTU Size	The default MTU (Maximum Transmission Unit) value is 1492 Bytes. It is not recommended that you change the default MTU Size unless required by your ISP.

■ [Static IP](#)

If your ISP provides a static or fixed IP Address, then you have to setup the IP address, Subnet Mask, Gateway and DNS setting. You can see the page as follows.

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designed to be better.

Site contents:
 Setup Wizard
 Operation Mode
 Wireless
 TCP/IP Settings
 LAN Interface
 WAN Interface
 Firewall
 QoS
 Route Setup
 Management
 Logout

WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type: Static IP

IP Address: 172.1.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 172.1.1.254

MTU Size: 1500 (1400-1500 bytes)

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address: 000000000000

☒ Enable IGMP Proxy
☐ Enable Ping Access on WAN
☐ Enable Web Server Access on WAN
☒ Enable IPsec pass through on VPN connection
☒ Enable PPTP pass through on VPN connection
☒ Enable L2TP pass through on VPN connection
☐ Enable IPv6 pass through on VPN connection

The page includes the following fields:

Object	Description
IP Address	Enter the IP address in dotted-decimal notation provided by your ISP.
Subnet Mask	Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0
Default Gateway	(Optional) Enter the gateway IP address in dotted-decimal notation provided by your ISP.
MTU Size	The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU Size unless required by your ISP.
DNS 1	Enter the DNS server IP address provided by your ISP, or you can specify your own preferred DNS server IP address.
DNS 2 & DNS 3	You can enter another DNS server's IP address as a backup. DNS 2 and 3 servers will be used when the DNS 1 server fails.

■ PPPoE

If your ISP provides a PPPoE connection, select PPPoE option. User has to setup the user name and password according to the ISP that provided the related information. You can see the page as follows.

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Site contents:
 Setup Wizard
 Operation Mode
 Wireless
 TCP/IP Settings
 LAN Interface
 WAN Interface
 Firewall
 QoS
 Route Setup
 Management
 Logout

WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type: PPPoE

User Name:

Password:

Service Name:

Connection Type: Continuous

Idle Time: 5 (1-1000 minutes)

MTU Size: 1452 (1360-1492 bytes)

☐ Attain DNS Automatically
☒ Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address: 000000000000

☒ Enable IGMP Proxy
☐ Enable Ping Access on WAN
☐ Enable Web Server Access on WAN
☒ Enable IPsec pass through on VPN connection
☒ Enable PPTP pass through on VPN connection
☒ Enable L2TP pass through on VPN connection
☐ Enable IPv6 pass through on VPN connection

The page includes the following fields:

Object	Description
User Name	Enter the User Name provided by your ISP. This field is case-sensitive.
Password	Enter the Password provided by your ISP. This field is case-sensitive.
Service Name	Enter the Internet service provider name in this field.
Connection Type	Select the connection type Continuous, Connect on Demand or Manual from the drop-down menu. If selected Manual, user can click Connect button to make a connection.
Idle Time	It represents that the device will idle after the minutes you set. The time must be set between 1~1000 minutes. Default value of idle time is 5 minutes. This function will be available when the Connection Type is selected to Connect on Demand.
MTU Size	The default MTU (Maximum Transmission Unit) value is 1452 Bytes. It is not recommended that you change the default MTU Size unless required by your ISP.

■ PPTP

If your ISP provides PPTP connection, please select PPTP option. And enter the following parameters. You can see the page as follows.

802.11 Wifi Access Point
N-WAP
designed to be better.

Site contents:
Setup Wizard
Operation Mode
Wireless
TCP/IP Settings
LAN Interface
WAN Interface
Firewall
QoS
Route Setup
Management
Logout

WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type: PPTP

IP Address:

Subnet Mask:

Server IP Address:

User Name:

Password:

Connection Type: Continuous Connect Disconnect

Idle Time: (1-1000 minutes)

MTU Size: (1400-1460 bytes)

☐ Request MPPE Encryption
☐ Request MPPE Compression

☐ Attain DNS Automatically
☒ Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

☒ Enable IGMP Proxy
☐ Enable Ping Access on WAN
☐ Enable Web Server Access on WAN
☒ Enable IPsec pass through on VPN connection
☒ Enable PPTP pass through on VPN connection
☒ Enable L2TP pass through on VPN connection
☐ Enable IPv6 pass through on VPN connection

Apply Changes Reset

The page includes the following fields:

Object	Description
IP Address	Enter the IP address in dotted-decimal notation provided by your ISP.
Subnet Mask	Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0
Server IP Address	Enter the PPTP Server IP address in dotted-decimal notation provided by your ISP.
User Name	Enter the User Name provided by your ISP. The Maximum input is 20 alphanumeric characters (case-sensitive).
Password	Enter the Password provided by your ISP. The Maximum input is 32 alphanumeric characters (case-sensitive).
Connection Type	Select the connection type Continuous, Connect on Demand or Manual from the drop-down menu. If selected Manual, user can click Connect button to make a connection.
Idle Time	It represents that the device will idle after the minutes you set. The time must be set between 1~1000 minutes. Default value of idle time

	is 5 minutes. This function will be available when the Connection Type is selected to Connect on Demand.
MTU Size	The default MTU (Maximum Transmission Unit) value is 1460 Bytes. It is not recommended that you change the default MTU Size unless required by your ISP.

■ L2TP

If your ISP provides L2TP connection, please select L2TP option. And enter the following parameters. You can see the page as follows.

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Site contents:

- Setup Wizard
- Operation Mode
- Wireless
- TCP/IP Settings
 - LAN Interface
 - WAN Interface
- Firewall
- QoS
- Route Setup
- Management
- Logout

WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type: L2TP

IP Address: 172.1.1.2

Subnet Mask: 255.255.255.0

Server IP Address: 172.1.1.1

User Name:

Password:

Connection Type: Continuous Connect Disconnect

Idle Time: 5 (1-1000 minutes)

MTU Size: 1460 (1400-1460 bytes)

☐ Attain DNS Automatically

☒ Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address: 000000000000

☒ Enable IGMP Proxy

☐ Enable Ping Access on WAN

☐ Enable Web Server Access on WAN

☒ Enable IPsec pass through on VPN connection

☒ Enable PPTP pass through on VPN connection

☒ Enable L2TP pass through on VPN connection

☐ Enable IPv6 pass through on VPN connection

Apply Changes Reset

The page includes the following fields:

Object	Description
IP Address	Enter the IP address in dotted-decimal notation provided by your ISP.
Subnet Mask	Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0
Server IP Address	Enter the L2TP Server IP address in dotted-decimal notation provided by your ISP.
User Name	Enter the User Name provided by your ISP. The Maximum input is 20 alphanumeric characters (case-sensitive).

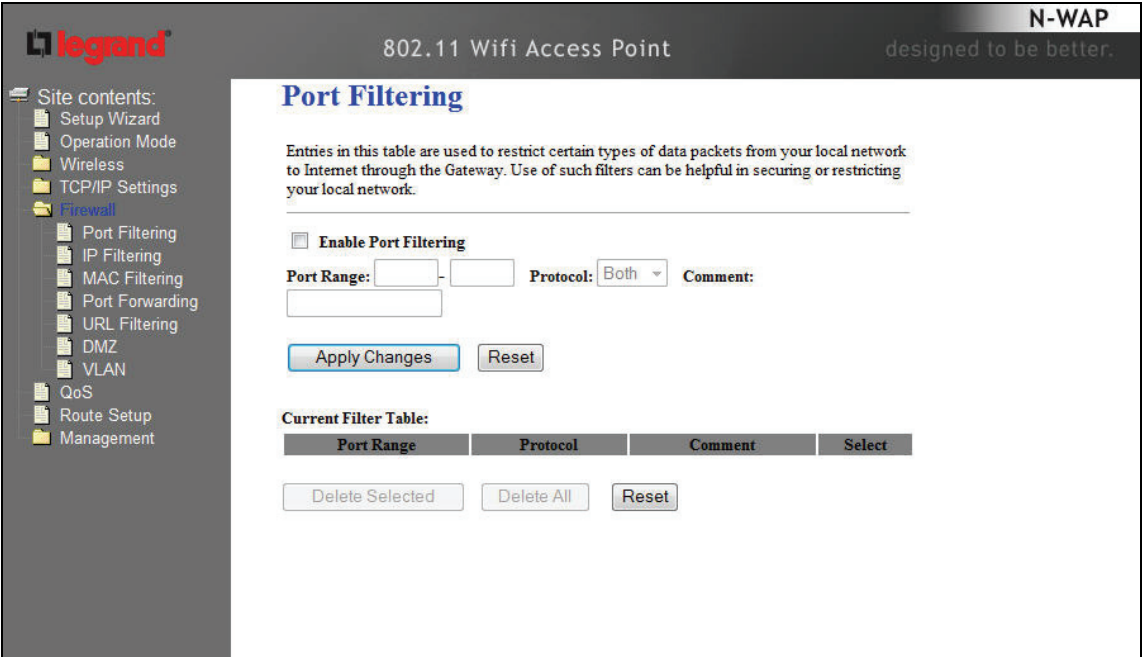
Password	Enter the Password provided by your ISP. The Maximum input is 32 alphanumeric characters (case-sensitive).
Connection Type	Select the connection type Continuous, Connect on Demand or Manual from the drop-down menu. If selected Manual, user can click Connect button to make a connection.
Idle Time	It represents that the device will idle after the minutes you set. The time must be set between 1~1000 minutes. Default value of idle time is 5 minutes. This function will be available when the Connection Type is selected to Connect on Demand.
MTU Size	The default MTU (Maximum Transmission Unit) value is 1460 Bytes. It is not recommended that you change the default MTU Size unless required by your ISP.

Chapter 4

Firewall

Port Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the DA1101. Use of such filters can be helpful in securing or restricting your local network.



Enable Port Filtering	Check to enable Port Filtering function.
Port Range	Enter the beginning of the range of port numbers used by the service. If the service uses a single port number, enter it in both the start and finish fields.
Protocol	Select the protocol (TCP, UDP or Both) used to the remote system or service.
Comment	You may key in a description MAC address.
Apply Changes	After completing the settings on this page, click Apply Changes button to save the settings.
Reset	Click Reset button to restore to default values.
Current Filter Table	Shows the current Port Forwarding information.
Delete Selected	Click Delete Selected button to delete items which are selected.
Delete All	Click Delete All button to delete all the items.
Reset	Click Reset button to reset.

IP Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the DA1101. Use of such IP filters can be helpful in securing or restricting your local network.

The screenshot shows the configuration interface for a Legrand 802.11 Wifi Access Point (N-WAP). The left sidebar contains a tree view of configuration options: Site contents, Setup Wizard, Operation Mode, Wireless, TCP/IP Settings, Firewall (selected), Port Filtering, IP Filtering, MAC Filtering, Port Forwarding, URL Filtering, DMZ, VLAN, QoS, Route Setup, and Management. The main content area is titled 'IP Filtering' and includes a description: 'Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.' Below this is a checkbox for 'Enable IP Filtering'. To its right are input fields for 'Local IP Address', a 'Protocol' dropdown menu (set to 'Both'), and a 'Comment' field. There are 'Apply Changes' and 'Reset' buttons. Below these is a section titled 'Current Filter Table' which contains a table with columns: Local IP Address, Protocol, Comment, and Select. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'.

Enable IP Filtering	Check to enable IP filtering function.
Local IP Address	Enter the local computer's IP address.
Protocol	Select the protocol (TCP, UDP or Both) used to the remote system or service.
Comment	You may key in a description for the port range.
Apply Changes	After completing the settings on this page, click Apply Changes button to save the settings.
Reset	Click Reset button to restore to default values.
Current Filter Table	Shows the current IP filter information.
Delete Selected	Click Delete Selected button to delete items which are selected.
Delete All	Click Delete All button to delete all the items.
Reset	Click Reset button to rest.

MAC Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the DA1101. Use of such filters can be helpful in securing or restricting your local network.

The screenshot shows the Legrand 802.11 Wifi Access Point N-WAP web interface. The left sidebar contains a tree view of site contents: Setup Wizard, Operation Mode, Wireless, TCP/IP Settings, Firewall (selected), Port Filtering, IP Filtering, MAC Filtering, Port Forwarding, URL Filtering, DMZ, VLAN, QoS, Route Setup, and Management. The main content area is titled 'MAC Filtering' and includes a description: 'Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.' Below this is a checkbox for 'Enable MAC Filtering'. To its right are input fields for 'MAC Address' and 'Comment'. Below these are 'Apply Changes' and 'Reset' buttons. Further down is a section titled 'Current Filter Table' which contains a table with three columns: 'MAC Address', 'Comment', and 'Select'. Below the table are three buttons: 'Delete Selected', 'Delete All', and 'Reset'.

Enable MAC Filtering	Check to enable MAC filtering function.
MAC Address	Enter the client MAC address in the field.
Comment	You may key in a description MAC address.
Apply Changes	After completing the settings on this page, click Apply Changes button to save the settings.
Reset	Click Reset button to restore to default values.
Current Filter Table	Shows the current MAC filter information.
Deleted Selected	Click Delete Selected button to delete items which are selected.
Deleted All	Click Delete All button to delete all the items.
Reset	Click Reset button to rest.

Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your DA1101's NAT firewall.

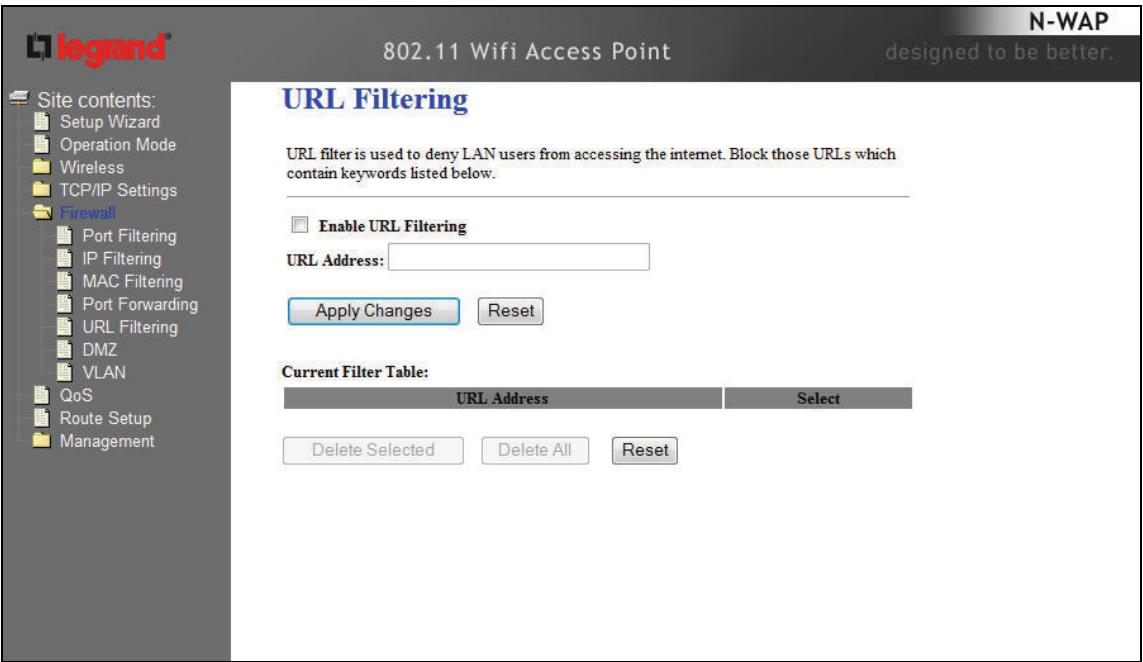
The screenshot shows the Legrand 802.11 Wifi Access Point N-WAP web interface. The left sidebar contains a 'Site contents' menu with options like Setup Wizard, Operation Mode, Wireless, TCP/IP Settings, Firewall, Port Filtering, IP Filtering, MAC Filtering, Port Forwarding, URL Filtering, DMZ, VLAN, QoS, Route Setup, and Management. The main content area is titled 'Port Forwarding' and includes a descriptive paragraph about redirecting network services. Below this is a section to 'Enable Port Forwarding' with a checkbox and input fields for IP Address, Protocol (set to 'Both'), Port Range, and a Comment field. There are 'Apply Changes' and 'Reset' buttons. At the bottom, there is a 'Current Port Forwarding Table' with columns for Local IP Address, Protocol, Port Range, Comment, and Select. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'.

Enable Port Forwarding Check to enable Port Forwarding function.

IP Address	Enter the IP address in the field.
Protocol	Select the protocol (TCP, UDP or Both) used to the remote system or service.
Port Range	For TCP and UDP Services, enter the beginning of the range of port numbers used by the service. If the service uses a single port number, enter it in both the start and finish fields.
Comment	You may key in a description MAC address.
Apply Changes	After completing the settings on this page, click Apply Changes button to save the settings.
Reset	Click Reset button to restore to default values.
Current Port Forwarding Table	Shows the current Port Forwarding information.
Delete Selected	Click Delete Selected button to delete items which are selected.
Delete All	Click Delete All button to delete all the items.
Reset	Click Reset button to rest.

URL Filtering

URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below.



Enable URL Filtering	Check to enable URL filtering function.
URL Address	Enter the URL address in the field.
Apply Changes	After completing the settings on this page, click Apply Changes button to save the settings.
Reset	Click Reset button to restore to default values.
Current Filter Table	Shows the current URL address filter information.
Delete Selected	Click Delete All button to delete all the items.
Reset	Click Reset button to rest.

DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

The screenshot shows the web interface of a Legrand 802.11 Wifi Access Point (N-WAP). The interface has a dark grey header with the Legrand logo on the left, the model name '802.11 Wifi Access Point' in the center, and 'N-WAP designed to be better.' on the right. A left-hand navigation menu lists various configuration options: Site contents, Setup Wizard, Operation Mode, Wireless, TCP/IP Settings, Firewall (selected), Port Filtering, IP Filtering, MAC Filtering, Port Forwarding, URL Filtering, DMZ, VLAN, QoS, Route Setup, and Management. The main content area is titled 'DMZ' and contains a descriptive paragraph about the DMZ function. Below the text is a checkbox labeled 'Enable DMZ'. Underneath the checkbox is a text input field labeled 'DMZ Host IP Address:'. At the bottom of the main area are two buttons: 'Apply Changes' and 'Reset'.

Enable DMZ	Check the box to enable DMZ function. If the DMZ Host Function is enabled, it means that you set up DMZ host at a particular computer to be exposed to the Internet so that some applications/software, especially Internet / online game can have two way connections.
DMZ Host IP Address	Enter the IP address of a particular host in your LAN which will receive all the packets originally going to the WAN port/Public IP address above.
Apply Changes	After completing the settings on this page, click Apply Changes button to save the settings.
Reset	Click Reset button to restore to default values

VLAN

Entries in below table are used to configure VLAN settings. VLANs are created to provide the segmentation services traditionally provided by routers. VLANs address issues such as scalability, security, and network management.

**802.11 Wifi Access Point**

N-WAP
designed to be better.

Site contents:

- Setup Wizard
- Operation Mode
- Wireless
- TCP/IP Settings
- Firewall
 - Port Filtering
 - IP Filtering
 - MAC Filtering
 - Port Forwarding
 - URL Filtering
 - DMZ
 - VLAN
- QoS
- Route Setup
- Management

VLAN Settings

Entries in below table are used to config vlan settings. VLANs are created to provide the segmentation services traditionally provided by routers. VLANs address issues such as scalability, security, and network management.

☐ Enable VLAN

Enable	Ethernet/Wireless	WAN/LAN	Tag	VID(1-4096)	Priority	CFI
☐	Wireless 1 Primary AP	LAN	☐	1	0	☐
☐	Virtual AP1	LAN	☐	1	0	☐
☐	Virtual AP2	LAN	☐	1	0	☐
☐	Virtual AP3	LAN	☐	1	0	☐
☐	Virtual AP4	LAN	☐	1	0	☐
☐	Ethernet Port5	WAN	☐	1	0	☐

Apply ChangesReset

Enable VLAN

VLAN (Virtual Local Area Network) refers to a group of logically networked devices on one or more LANs that are configured so that they can communicate as if they were attached to the same wire, when in fact they are located on different LAN segments. Because VLANs are based on logical instead of physical connections, it is very flexible for user/host management.

Chapter 5

Wireless Settings

Basic Settings

This page is used to configure the parameters for wireless LAN clients who may connect to your DA1101. Here you may change wireless encryption settings as well as wireless network parameters.

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

☐ Disable Wireless LAN Interface

Band:

2.4 GHz (B+G+N) ▾

Mode:

AP ▾

Multiple AP

Network Type:

Infrastructure ▾

SSID:

default

Channel Width:

40MHz ▾

Control Sideband:

Upper ▾

Domain Region:

FCC ▾

Channel Number:

11 ▾

Broadcast SSID:

Enabled ▾

WMM:

Enabled ▾

Data Rate:

Auto ▾

Associated Clients:

Show Active Clients

☐ Enable Mac Clone (Single Ethernet Client)

☐ Enable Universal Repeater Mode (Acting as AP and client simultaneously)

SSID of Extended Interface:

Disable Wireless LAN Interface	Enable or disable the wireless LAN.
Band	There are 6 modes: 2.4GHz (B), 2.4GHz (G), 2.4GHz (N), 2.4GHz (B+G), 2.4GHz (G+N), and 2.4GHz (B+G+N) mode. Default : 2.4GHz (B+G+N)

Mode	- AP: The DA1101 functions as a wireless hub to which wireless clients can connect. The clients must make sure that they are configured to match the DA1101's wireless settings. The DA1101 must be connected to a router for wireless devices to receive DHCP addressing. - WDS: WDS operation as defined by the IEEE802.11 standard has been made available. Using WDS it is possible to wirelessly connect DA1101s, and in doing so extend a wired infrastructure to locations where cabling is not possible or inefficient to implement. - AP+WDS: It means the device can support WDS and AP Mode simultaneously. Default : AP mode
Network Type -	- Infrastructure: The wireless LAN serves as a wireless station (infrastructure). Connected to a PC or a small LAN (no more than 5 PCs), it allows the PC or small LAN to be able to access the wireless network via the DA1101. - Ad hoc: The wireless LAN will use the Ad hoc mode to operate.
SSID	Wireless stations associating to the DA1101 must have the same SSID. Enter a descriptive name for the wireless LAN. Default : 802.11bgn-SSID
Channel Width	There are 20MHz and 40MHz bandwidths for cohesion Default : 20MHz
Control Sideband	Specify if the extension channel should be in the Upper or Lower sideband Default : Upper (Unavailable)
Channel Number	Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country. Default : 6
Broadcast SSID	If you enable "Broadcast ESSID", every wireless station located within the coverage of this DA1101 can discover this DA1101 easily. If you are building a public wireless network, enabling this feature is recommended. In private network, disabling "Broadcast ESSID" can provide better security. Default : Enable
WMM	The short of Wi-Fi Multi-Media, it will enhance the data transfer performance of multimedia contents when they're being transferred over wireless network. Default : Enable (Unavailable)
Data Rate	The Data Rate is the rate of data transmission for 802.11b/g/n clients. The DA1101 will use the highest possible selected transmission rate to transmit the data packets. Default : Auto Default : Auto
Associated Clients	To show the MAC address, transmission, reception packet counters and encrypted status for each associated wireless client.
Enable Mac Clone	When set at Client mode, it provides wireless LAN to connect to a MAC address. Default : Disable

Enable Universal Repeater Mode	Universal Repeater is a technology used to extend wireless coverage. If this is enabled, a second DA1101 can be used for directly connected LAN devices and wireless devices. Default : Disable
SSID of Extended Interface	Click on "Enable Universal Repeater Mode"; In the "SSID of Extended Interface", enter the SSID of the wireless router that you want to extend. Default : Null

Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your DA1101.

Wireless Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Fragment Threshold: (256-2346)

RTS Threshold: (0-2347)

Beacon Interval: (20-1024 ms)

Preamble Type: ☒ Long Preamble ☐ Short Preamble

IAPP: ☒ Enabled ☐ Disabled

Protection: ☐ Enabled ☒ Disabled

Aggregation: ☒ Enabled ☐ Disabled

Short GI: ☒ Enabled ☐ Disabled

WLAN Partition: ☐ Enabled ☒ Disabled

STBC: ☐ Enabled ☒ Disabled

20/40MHz Coexist: ☐ Enabled ☒ Disabled

RF Output Power: ☒ 100% ☐ 70% ☐ 50% ☐ 35% ☐ 15%

Fragment Threshold	“Fragment Threshold” specifies the maximum size of packet during the fragmentation of data to be transmitted. If you set this value too low, it will result in bad performance. Default : 2346
RTS Threshold	When the packet size is smaller the RTS threshold, the DA1101 will not use the RTS/CTS mechanism to send this packet. Default : 2347
Beacon Interval	The interval of time that this DA1101 broadcast a beacon. Beacon is used to synchronize the wireless network. Default : 100
Preamble Type	Preamble type defines the length of CRC block in the frames during the wireless communication. “Short Preamble” is suitable for high traffic wireless network. “Long Preamble” can provide more reliable communication. Default : Long Preamble

IAPP	Inter-Access Point Protocol is a recommendation that describes an optional extension to IEEE 802.11 that provides wireless access-point communications among multivendor systems. Default : Enable
Protection	It is recommended to enable the protection mechanism. This mechanism can decrease the rate of data collision between 802.11b and 802.11g wireless stations. When the protection mode is enabled, the throughput of the AP will be a little lower due to many of frame traffic should be transmitted. Default : Enable
Aggregation	It is a function where the values of multiple rows are grouped together. Default : Enable
Short GI	It is used to set the time that the receiver waits for RF reflections to settle out before sampling data. Default : Enable
WLAN Partition	This feature also called WLAN isolation or Block Relay. If this feature is disabled, then there is no barrier between communications among wireless stations connecting to the Access Point, i.e the DA1101. If this is enabled, wireless stations of the selected band are not allowed to exchange data through the DA1101. The default value is set to 'Disabled'. Default : Disable
RF Output Power	Users can adjust the output power to 100%, 75% 50% 35% and 15%. Default : 100%

Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Root AP - default ▾

Apply Changes

Reset

Encryption:

Disable ▾

802.1x Authentication:

☐

Select SSID	If assigned multiple AP feature, you could choose the SSID that want to setup encryption function.
Encryption	Select the data privacy algorithm you want. Enabling the security can protect your data while it is transferred from one station to another. Default : Disable
802.1x Authentication	Check Box was used to switch the function of the 802.1X. When the 802.1X function is enabled, the Wireless user must authenticate to this router first to use the Network service. Default : Uncheck

- WEP

When you select the 128 or 64 bit WEP key security, please select one WEP key to be used and input 26 or 10 hexadecimal (0, 1, 2...8, 9, A, B...F) digits.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Root AP - default ▾

Apply Changes

Reset

Encryption:

WEP ▾

802.1x Authentication:

☐

Authentication:

☐ Open System ☐ Shared Key ☒ Auto

Key Length:

64-bit ▾

Key Format:

Hex (10 characters) ▾

Encryption Key:

- WPA

When select the WPA function, the Wireless user must authenticate to this router first to use the Network service. RADIUS Server IP address or the 802.1X server's domain-name.

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Root AP - default ▾

Apply Changes

Reset

Encryption:

WPA ▾

Authentication Mode:

☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

WPA Cipher Suite:

☐ TKIP ☒ AES

Pre-Shared Key Format:

Passphrase ▾

Pre-Shared Key:

- WPA2

When select the WPA function, the Wireless user must authenticate to this router first to use the Network service. RADIUS Server IP address or the 802.1X server's domain-name.

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID: Root AP - default ▾

Apply Changes

Reset

Encryption:

WPA2 ▾

Authentication Mode:

☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

WPA2 Cipher Suite:

☐ TKIP ☒ AES

Pre-Shared Key Format:

Passphrase ▾

Pre-Shared Key:

- WPA-Mixed

When select the WPA-Mixed function, the Wireless user must authenticate to this router first to use the Network service. RADIUS Server

The router will detect automatically which Security type (WPA-PSK version 1 or 2) the client uses to encrypt.

IP address or the 802.1X server's domain-name.

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID: Root AP - default ▼

Apply Changes

Reset

Encryption:

WPA-Mixed ▼

Authentication Mode:

☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

WPA Cipher Suite:

☐ TKIP ☒ AES

WPA2 Cipher Suite:

☐ TKIP ☒ AES

Pre-Shared Key Format:

Passphrase ▼

Pre-Shared Key:

Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your DA1101. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the DA1101.

Wireless Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.

Wireless Access Control Mode: Disable ▼

MAC Address:

Comment:

Apply Changes

Reset

Current Access Control List:

MAC Address

Comment

Select

Delete Selected

Delete All

Reset

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

☐ **Enable WDS**

MAC Address:

Data Rate:

Comment:

Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select
Delete Selected Delete All Reset			

Site Survey

This page provides a tool to scan the wireless network. If any DA1101 or IBSS is found, you could choose to connect it manually when client mode is enabled.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
default	00:e0:4c:03:39:7f	6 (B+G+N)	AP	WPA2-PSK	68	☐
n.power	00:e0:4c:2d:68:10	1 (B+G+N)	AP	no	32	☒

Wireless Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

Wireless Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

☐ Enable Wireless Schedule

Enable	Day	From				To			
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)
☐	Sun ▼	00 ▼	(hour)	00 ▼	(min)	00 ▼	(hour)	00 ▼	(min)

Apply Changes

Reset

Chapter 6

Management

Status

In this page can show the current status and some basic settings of the DA1101.

Access Point Status

This page shows the current status and some basic settings of the device.

System	
Uptime	0day:0h:26m:29s
Firmware Version	v2.4_20110728
Build Time	Wed Apr 27 15:13:46 CST 2011
Wireless Configuration	
Mode	AP
Band	2.4 GHz (B+G+N)
SSID	default
Channel Number	6
Encryption	Disabled
BSSID	00:26:ec:c9:e2:74
Associated Clients	0
TCP/IP Configuration	
Attain IP Protocol	Fixed IP
IP Address	192.168.40.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.40.254
DHCP Server	Auto
MAC Address	00:26:ec:c9:e2:74



Statistics

This page shows the packet counters for transmission and reception regarding to Ethernet networks.

Statistics

This page shows the packet counters for transmission and reception regarding to wireless and Ethernet networks.

Wireless LAN	Sent Packets	1223
	Received Packets	1410
Ethernet LAN	Sent Packets	108
	Received Packets	23

Refresh

DDNS

Choose menu “Dynamic DNS”, and you can configure the Dynamic DNS function when enabled router mode.

The Router offers the DDNS (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address, and then your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as www.comexe.cn, www.dyndns.org, or www.no-ip.com. The Dynamic DNS client service provider will give you a password or key.

Dynamic DNS Setting

Dynamic DNS is a service, that provides you with a valid, unchanging, internet domain name (an URL) to go with that (possibly everchanging) IP-address.

☐ Enable DDNS

Service Provider :

DynDNS ▾

Domain Name :

host.dyndns.org

User Name/Email:

Password/Key:

Note:
For TZO, you can have a 30 days free trial [here](#) or manage your TZO account in [control panel](#)
For DynDNS, you can create your DynDNS account [here](#)

Apply Change

Reset

To set up for DDNS, follow these instructions:

- Step 1.** Check Enable DDNS.
- Step 2.** Select the Service Provider from the drop-down menu.
- Step 3.** Type the Domain Name received from your dynamic DNS service provider.
- Step 4.** Type the User Name/Email for your DDNS account.
- Step 5.** Type the Password/Key for your DDNS account.
- Step 6.** Click the Apply Change button to apply the settings.

Time Zone Setting

You can maintain the system time by synchronizing with a public time server over the Internet.

Time Zone Setting

You can maintain the system time by synchronizing with a public time server over the Internet.

Current Time : Yr 2011 Mon 4 Day 23 Hr 16 Mn 46 Sec 44

Time Zone Select : (GMT+08:00)Taipei

☐ **Enable NTP client update**

☐ **Automatically Adjust Daylight Saving**

NTP server : ☒ 192.5.41.41 - North America ☐ (Manual IP Setting)

Current Time	Input current time manually.
Time Zone Select	Select local time zone according to location.
Enable NTP client update	Check to enable NTP update. Once this function is enabled, the DA1101 will automatically update current time from NTP server.
NTP server	User may select prefer NTP sever or input address of NTP server manually.

Denial-of-Service

DoS (Denial of Service) attacks can flood your Internet connection with invalid packets and connection requests, using so much bandwidth and so many resources that Internet access becomes unavailable. The Wireless Router incorporates protection against DoS attacks. This screen allows you to configure DoS protection.

Denial of Service

A "denial-of-service" (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service.

☒ **Enable DoS Prevention**

☐ Whole System Flood: SYN	0	Packets/Second
☐ Whole System Flood: FIN	0	Packets/Second
☐ Whole System Flood: UDP	0	Packets/Second
☐ Whole System Flood: ICMP	0	Packets/Second
☐ Per-Source IP Flood: SYN	0	Packets/Second
☐ Per-Source IP Flood: FIN	0	Packets/Second
☐ Per-Source IP Flood: UDP	0	Packets/Second
☐ Per-Source IP Flood: ICMP	0	Packets/Second
☐ TCP/UDP PortScan	Low	Sensitivity
☐ ICMP Smurf		
☐ IP Land		
☐ IP Spoof		
☐ IP TearDrop		
☐ PingOfDeath		
☐ TCP Scan		
☐ TCP SynWithData		
☐ UDP Bomb		
☐ UDP EchoChargen		

☐ **Enable Source IP Blocking** **Block time (sec)**

Log

This page can be used to set remote log server and show the system log.

System Log

This page can be used to set remote log server and show the system log.

☐ **Enable Log**

☐ **system all**

☐ **wireless**

☐ **DoS**

☐ **Enable Remote Log**

Log Server IP Address:

Apply Changes

Refresh

Clear

Enable Log	Check to enable log function.
System all	Activates all logging functions.
Wireless	Only logs related to the wireless LAN will be recorded.
DoS	Only logs related to the DoS protection will be recorded.
Enable Remote Log	Only logs related to the Remote control will be recorded.
Log Server IP Address	Only logs related to the server will be recorded.

Upgrade Firmware

This page allows you upgrade the DA1101 firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

Upgrade Firmware

This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

Firmware Version: v2.4_20110517b

Select File:

Firmware Version	The current version is shown in this field.
Select File	Browse and select file you want to upgrade and press Upload to perform upgrade. Please wait till on screen shows related information after upgrade finished.
Upload	Click the Upload button to perform the upgrade process.
Reset	Click Reset will clean all current configurations and return to default values.

Save / Reload Settings

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save/Reload Settings

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save Settings to File:

Load Settings from File:

Reset Settings to Default:

Save Settings to File	Save current settings to a file.
Load Settings from File	Browse a file and upload to reload settings.
Reset Settings to Default	Click Reset button to restore to factory default values.

Password Setup

This page is used to set the account to access the web server of DA1101. Empty user name and password will disable the protection.

Password Setup

This page is used to set the account to access the web server of Access Point. Empty user name and password will disable the protection.

User Name:

New Password:

Confirmed Password:

User Name	Enter user name.
New Password	Input password for this user.
Confirmed Password	Confirm password again.

Chapter 7

QoS

Enable QoS

Use this section to configure QoS. The QoS settings improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

QoS

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

☐ Enable QoS

☒ Automatic Uplink Speed

Manual Uplink Speed (Kbps):

☒ Automatic Downlink Speed

Manual Downlink Speed (Kbps):

QoS Rule Setting:

Address Type:

☒ IP ☐ MAC

Local IP Address: -

MAC Address:

Mode:

Guaranteed minimum bandwidth ▾

Uplink Bandwidth (Kbps):

Downlink Bandwidth (Kbps):

Comment:

Apply Changes

Reset

Enable QoS	Check the box to enable the QoS function.
Automatic Uplink/Download Speed	Check the box to enable the automatic uplink/ download speed function.
Manual Uplink/Download Speed	User can manually enter the uplink/ download speed in the blank field.

QoS Rule Setting

Administrator can setup a QoS rule for specific user depends on IP or MAC address.

QoS

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

☐ **Enable QoS**

☒ **Automatic Uplink Speed**

Manual Uplink Speed (Kbps):

☒ **Automatic Downlink Speed**

Manual Downlink Speed (Kbps):

QoS Rule Setting:

Address Type:

☒ IP ☐ MAC

Local IP Address:

-

MAC Address:

Mode:

Guaranteed minimum bandwidth ▾

Uplink Bandwidth (Kbps):

Downlink Bandwidth (Kbps):

Comment:

Apply Changes

Reset

Address Type	Select IP or MAC address type.
Local IP Address	Depend on the address type that selected, user can enter the IP address or MAC address of client to set up the bandwidth of the transmission.
MAC Address	
Mode	Select Guaranteed minimum bandwidth or Restricted maximum bandwidth modes.
Uplink Bandwidth (Kbps)	Enter the Uplink Bandwidth (Kbps) in the column.
Downlink Bandwidth (Kbps)	Enter the Downlink Bandwidth (Kbps) in the column.
Comment	Enter the note for the setting.

Chapter 8

Route Setup

Dynamic Route

Dynamic routing performs the same function as static routing except it is steadier. Dynamic routing allows routing tables in routers to change as the possible routes change. There are several protocols used to support dynamic routing including RIP and OSPF.

Routing Setup

This page is used to setup dynamic routing protocol or edit static route entry.

☐ **Enable Dynamic Route**
NAT: ☒ Enabled ☐ Disabled
Transmit: ☒ Disabled ☐ RIP 1 ☐ RIP 2
Receive: ☒ Disabled ☐ RIP 1 ☐ RIP 2

☐ **Enable Static Route**
IP Address:
Subnet Mask:
Gateway:
Metric:
Interface:

Static Route Table:

Destination IP Address	Netmask	Gateway	Metric	Interface	Select
------------------------	---------	---------	--------	-----------	--------

Enable Dynamic Route	Check the box to enable the Dynamic Route function.
NAT	Network Address Translation (NAT) selects to enable or disable this function.
Transmit	Select to enable or disable RIP protocol for transmit.
Receive	Select to enable or disable RIP protocol for receive.

Static Route

To set static routers, enter the settings including route IP address, route mask, route gateway and the route Interface from LAN or WAN.

Routing Setup

This page is used to setup dynamic routing protocol or edit static route entry.

☐ **Enable Dynamic Route**
NAT: ☒ Enabled ☐ Disabled
Transmit: ☒ Disabled ☐ RIP 1 ☐ RIP 2
Receive: ☒ Disabled ☐ RIP 1 ☐ RIP 2

☐ **Enable Static Route**
IP Address:
Subnet Mask:
Gateway:
Metric:
Interface:

Static Route Table:

Destination IP Address	Netmask	Gateway	Metric	Interface	Select
------------------------	---------	---------	--------	-----------	--------

Enable Static Route	Check the box to enable the Static Route function.
IP Address	Set up the IP address that would like to send the packets pass through.
Subnet Mask	Set up the Subnet Mask that would like to send the packets pass through.
Gateway	Set up the gateway that would like to send the packets pass through.
Metric	It is used by a router to make routing decisions. The metrics used by a router to make routing decisions. It is typically one of many fields in a routing table. Router metrics can contain any number of values that help the router determine the best route among multiple routes to a destination. A router metric typically based on information like path length, bandwidth, load, hop count, path cost, delay, Maximum Transmission Unit (MTU), reliability and communications cost.
Interface	Select the interface of the setting path.

Appendix A Frequently Asked Questions

If your DA1101 is not functioning properly, you can refer to this chapter first for sample troubleshooting before contacting your dealer. This can save your time and effort but if the symptoms persist, please consult your dealer.

Q1: I forget my DA1101 login username and / or password

A1:

- 1.) Restore DA1101 to its factory default settings by pressing the “Reset” button of the device for 10 seconds or more. Its factory settings are “admin” for both the user name and password.

Appendix B DA1101 Specifications

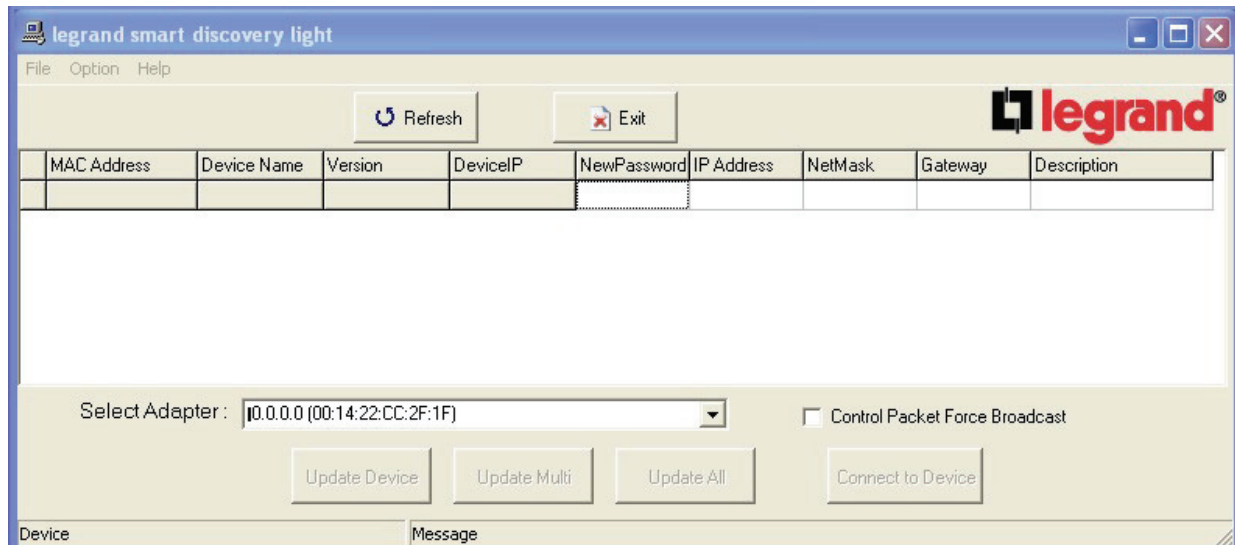
Product	802.11n Wireless DA1101
Model	N-WAP
Hardware	
WLAN Standards	IEEE 802.11 b/g/n
Wireless Frequency Range	2.4GHz ~ 2.4835 GHz
Operation Mode	AP, Client, Router
Wireless Mode	AP, WDS and AP+WDS mode
Security	64/128 bit WEP data encryption, WPA, WPA-PSK, WPA2, WPA2-PSK, WPA/WPA2 mix mode, 802.1x encryption and WPS PBC
Operating Frequencies / Channel	USA/Canada: 2.412 GHz – 2.426 GHz (11 channels) Europe: 2.412 GHz – 2.472 GHz (13 channels) Japan: 2.412 GHz – 2.477 GHz (14 channels)
Wireless Data Rate	IEEE 802.11b: CCK (11Mbps,5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) IEEE 802.11g: OFDM (54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps) IEEE 802.11n: 14/29/43/58/87/116/130/144Mbps in 20MHz, 30/60/90/120/180/240/270/300Mbps in 40MHz
Transmit Power	802.11b: 17dBm 802.11g: 15dBm 802.11n: 13dBm
Receiver Sensitivity	802.11b: -86dBm @11M 802.11g: -72dBm @54M 802.11n (20MHz): -68dBm 802.11n (40MHz): -66dBm
Antenna	2 x Antenna
WDS	WDS repeater support
LAN	1 x 10/100 Base-TX RJ-45 port
Protocols and Standard	
Protocols	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP
Security	Password protection for system management
Network and Configuration	
Access Mode	Static IP, DHCP Client, PPPoE, PPTP, L2TP
Configuration & Management	Web-Based Graphical User Interface Remote management over the IP Network Web-Based firmware upgrade Backup and Restore Configuration file
Dimension (W x D x H)	
Operating Environment	0~50 Degree C 5~90% humidity
Power Requirement	
EMC/EMI	

Appendix C DA1101 Utility Program

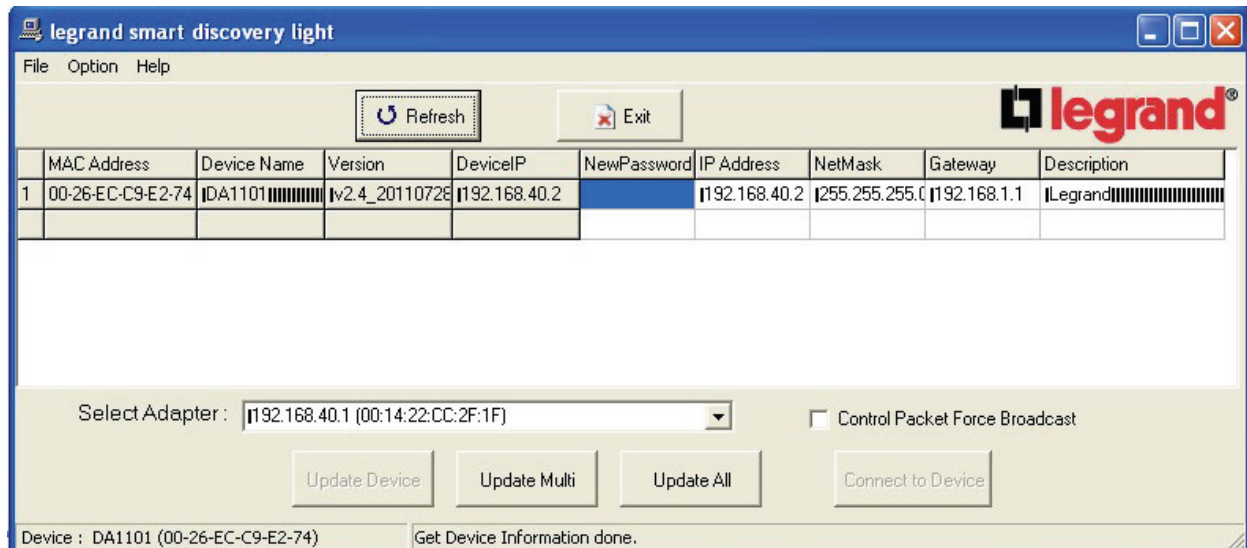
The executable file “DA-Discovery.exe” is found on the CD provided with this product, and should be copied onto the desktop (or a known location) on the PC normally used for N-WAP configuration.

With the PC set for DHCP (TCP/IP Settings), and connected to the router used for the N-WAP, simply run (double click) the utility program.

The screen shown below will appear.



Click on the “Refresh” button, and the screen will be updated to show the IP addresses of all devices attached to the router, including the DA1101.



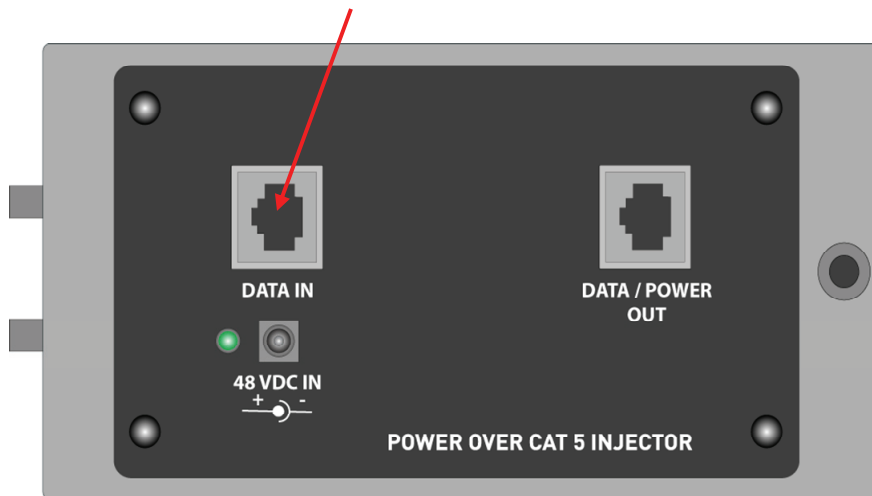
To configure the N-WAP simply copy its shown IP address and put it into the browser window of your internet search program (ie. Windows Explorer, etc.) and press Enter. You should then see the logon screen for the N-WAP and be able to logon using the default “admin” user name and “admin” password.

Appendix D Manual logon to DA1101 for configuration

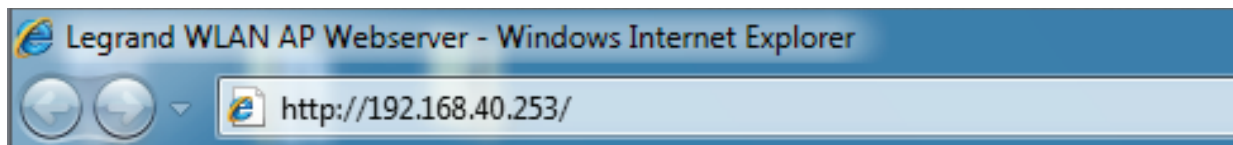
The default IP address of the DA1101 is **192.168.40.253**. It uses this address if there is no router connected to it to give it an address (through the DHCP process) and/or someone presses its “Reset” button.

To manually configure the DA1101, first change your PC’s IP address from DHCP provided to one in the 192.168.40.xxx subnet, like 192.168.40.10.

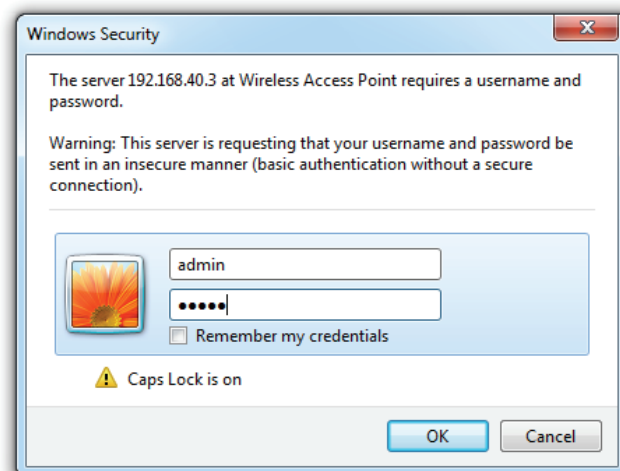
Then connect the PC directly to the “Data In” jack on the POE.



Use your web browser to connect to the DA1101, by putting its default IP address in your browser window as shown below.

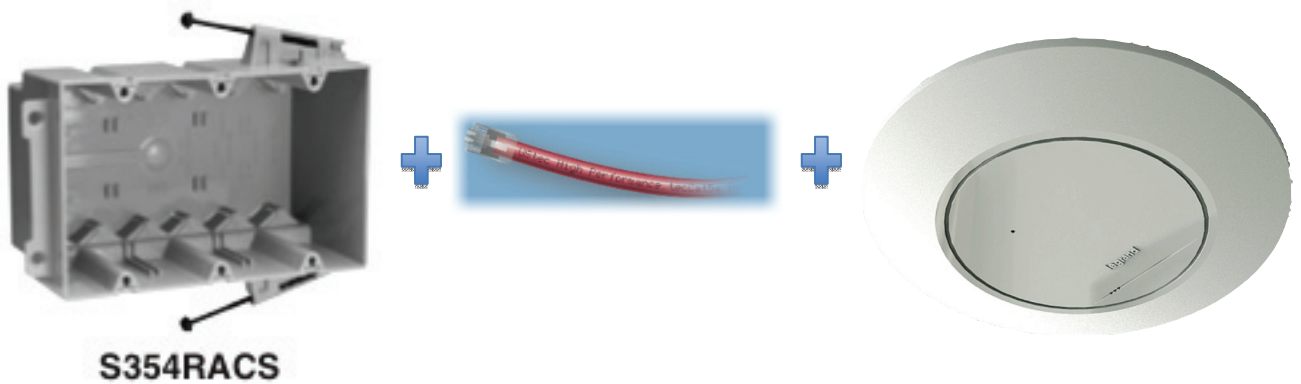


You should see the DA1101 logon screen pop up, as shown below. Simply type in “admin” for the logon and “admin” for the password to logon to the DA1101.



Appendix E DA1101 Mounting Information & Best Practices

NOTE TO USE THE CIRCULAR COVER PREWIRE WITH A THREE GANG PLASTIC BOX.
The Pass and Seymour Slater S354RACS is recommended



For the Single Gang Wall Cover the Pass and Seymour Slater S122RS is recommended.



In all cases the back box should be of a RF friendly construction. (IE. Not Metal)

THE FOLLOWING WILL NOT WORK TOGETHER.....

