

OAP1750



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OVERVIEW

Your access point can function in three different modes.

The default mode for your access point is **AP mode**.

AP mode is a regular access point for use in your wireless network.

Managed AP mode acts as a "slave" AP within the AP array (controlled by the AP Controller "master").

In **Repeater mode** the access point connects wirelessly to your existing 2.4GHz and/or 5GHz network and repeats the wireless signal(s).

Operation Mode		
Operation Mode	AP Mode 🔻	
	AP Mode	
	Repeater Mode	
	Managed AP mode	



I. Product Information

I-1. Package Contents



- 1. Access Point
- 2. Antennas (2.4G x 3 & 5G x 3)
- 3. Wall Mount Bracket x 1
- 4. CD
- 5. Quick Installation Guide
- 6. Wall/Pole Mount Screws Kits



I-2. System Requirements

- Existing cable/DSL modem & router
- Computer with web browser for access point configuration

I-3. Hardware Overview



- **A.** LAN port with Power over Ethernet (PoE PD)
- **B.** 3 LEDs + Reset M-smart interface



I-4. LED Status

		LED Behavior
Dowor	Green	The access point is on.
Power	Off	The access point is off.
	Green	LAN port is connected.
LAN	Flashing	Activity (transferring and receiving)
	Off	LAN port is unconnected.
	Green	Wireless enabled.
Wireless	Flashing	Activity (transferring and receiving)
	Off	Wireless disabled.

I-5. Reset

If you experience problems with your access point, you can reset the device back to its factory settings. This resets all settings back to default.

1. Press and hold the reset button on the access point for at least 10 seconds. Then release the button.

You may need to use a pencil or similar sharp object to push the reset button.

2. Wait for the access point to restart. The access point is ready for setup when the LED is green.



I-6. Safety Information

In order to ensure the safe operation of the device and its users, please read and act in accordance with the following safety instructions.

- 1. Do not place the access point in or near hot/humid places, such as a kitchen or bathroom.
- 2. Do not pull any connected cable with force; carefully disconnect it from the access point.
- 3. Handle the access point with care. Accidental damage will void the warranty of the access point.
- 4. The device contains small parts which are a danger to small children under 3 years old. Please keep the access point out of reach of children.
- 5. Do not place the access point on paper, cloth, or other flammable materials. The access point may become hot during use.
- 6. There are no user-serviceable parts inside the access point. If you experience problems with the access point, please contact your dealer of purchase and ask for help.
- 7. If you smell burning or see smoke coming from the access point or power adapter, then disconnect the access point and power adapter immediately, as far as it is safely possible to do so. Call your dealer of purchase for help.



II. Hardware Installation



When using the access point in AP mode it is recommended to configure some basic settings as shown in III. Quick Setup before hardware installation.

The access point includes a mount for wall or pole which requires some assembly.

Attach the mount to the back of the access point using the twelve included M6 screws and four washers, as shown below.







1.Vertical





2.Horizontal



II-1. Wall Mount

1. Attach the mount and access point to a wall using the included wood screws and plugs.







II-2. Pole Mount

1. Fix the mount and access point to a pole using the included stainless tie back straps.

Type 1



Type 3









III. Quick Setup

The Long Range 802.11ac Dual-Band Concurrent Outdoor Access Point features a range of powerful functions:

- 802.11ac Dual-band Concurrent high speed wireless technology
- 32 SSIDs for Management
- SNMP v1/v2c/v3

Your access point can be up and running in just a few minutes. It can function as a standalone access point (AP mode) or as part of an AP array (Managed AP mode).

For use a Managed AP in an AP array, the access point will automatically switch mode when an AP Controller is configured as described in **III-2. Edimax Pro NMS.**

III-1. AP Mode Initial Setup

1. Connect the access point to a PoE Switch or PoE Injector via Ethernet cable which can supply power and data out.



2. Please wait a moment for the access point to start up. The access point is ready when the LED is green.



3. Set your computer's IP address to **192.168.2.x** where **x** is a number in the range **3** – **100**.



4. Enter the access point's default IP address **192.168.2.2** into the URL bar of a web browser.



5. You will be prompted for a user name and password. Enter the default username "admin" and the default password "1234".

Windows Security	×
The server 192.	168.2.2 at localhost requires a username and password.
	User name Password Remember my credentials
	OK Cancel

6. You will arrive at the "System Information" screen shown below.



			Home Logout Global (Eng
O A P 1 7 5 0	Information Network Settings	Wireless Settings Management A	dvanced Operation Mode
Information System Information	System Information		
Wireless Clients	System		
Minelana Manikan	Model	OAP1750	
wireless monitor	Product Name	AP801F0275EFA8	
Log	Uptime	0 day 00:05:54	
	System Time	2012/01/01 00:05:55	
	Boot from	Internal memory	
	Firmware Version	0.0.2	
	MAC Address	80:1F:02:75:EF:A8	
	Management VLAN ID	1	
	IP Address	192.168.0.104 Refresh	
	Default Gateway	192.168.0.1	
	DNS	192.168.0.1	
	DHCP Server	192.168.0.1	

The next steps will help you to configure the following basic settings of the access point:

- LAN IP Address
- 2.4GHz & 5GHz SSID & Security
- Administrator Name & Password
- Time & Date



 To change the access point's LAN IP address, go to "Network Settings" > "LAN-side IP Address" and you will see the screen below.

LAN-side IP Address	
IP Address Assignment	DHCP Client
IP Address	192.168.2.2
Subnet Mask	255.255.255.0
Default Gateway	From DHCP V
Primary DNS Address	From DHCP V 0.0.0.0
Secondary DNS Address	From DHCP V 0.0.0.0

2. Enter the IP address settings you wish to use for your access point. You can use a dynamic (DHCP) or static IP address, depending on your network



environment. Click "Apply" to save the changes and wait a few moments for the access point to reload.



When you change your access point's IP address, you need to use the new IP address to access the browser based configuration interface instead of the default IP 192.168.2.2.

3. To change the SSID of your access point's 2.4GHz wireless network(s), go to "Wireless Settings" > "2.4GHz 11bgn" > "Basic". Enter the new SSID for your 2.4GHz wireless network in the "SSID1" field and click "Apply".

To utilize multiple 2.4GHz SSIDs, open the drop down menu Iabelled "Enable SSID number" and select how many SSIDs you require. Then enter a new SSID in the corresponding numbered fields below, before clicking "Apply".

Wireless	Enable Disable
Band	11b/g/n 🔻
Enable SSID number	1 •
SSID1	EDIMAX-75EFA8_G VLAN ID 1
Auto Channel	Enable Disable
Auto Channel Range	Ch 1 - 11 🔻
Auto Channel Interval	One day 🔻
Auto Channel Interval	Change channel even if clients are connected
Channel Bandwidth	Auto 🔻
BSS BasicRateSet	125511 Mbps 🔹

4. To configure the security of your access point's 2.4GHz wireless network(s), go to "Wireless Settings" > "2.4GHz 11bgn" > "Security". Select an "Authentication Method" and enter a "Pre-shared Key" or "Encryption Key" depending on your choice, then click "Apply".



If using multiple SSIDs, specify which SSID to configure using the 🖴 "SSID" drop down menu.



2.4GHz Wireless Security Set	tings
SSID	EDIMAX-75EFA8_G 🔻
Broadcast SSID	Enable 🔻
Wireless Client Isolation	Disable •
Load Balancing	50 /50
Authentication Method	No Authentication <
Additional Authentication	No additional authentication

- 5. Go to "Wireless Settings" > "5GHz 11ac 11an" and repeat steps 3 & 4 for the access point's 5GHz wireless network.
- **6.** To change the administrator name and password for the browser based configuration interface, go to **"Management" > "Admin"**.

Account to Manage This Dev	ice	
Administrator Name	admin	
Administrator Password	••••	(4-32 Characters)
	••••	(Confirm)

- 7. Complete the "Administrator Name" and "Administrator Password" fields and click "Apply".
- 8. To set the correct time for your access point, go to "Management" > "Date and Time Settings".



Date and Time Se	2012 Year Jan Month 1 Day 0 Hours 00 Minutes 00 Seconds
Acquire Current Tir	me from Your PC
Use NTP	Enable
Server Name Update Interval	24 hours

9. Set the correct time and time zone for your access point using the drop down menus. The access point also supports NTP (Network Time Protocol) so alternatively you can enter the host name or IP address of a time server. Click "Apply" when you are finished.



10. The basic settings of your access point are now configured.



III-2. Edimax Pro NMS

Edimax Pro Network Management Suite (NMS) supports the central management of a group of access points, otherwise known as an AP Array. NMS supports up to 16 Edimax Pro access points with no additional wireless controller required or 32 access points with the APC 500 AP controller - reducing costs and facilitating efficient remote AP management.

Edimax Pro NMS is simple to setup. An overview of the system is shown below:



One AP (access point) is designated as the AP Controller (master) and other connected Edimax Pro APs are automatically designated as Managed APs (slaves). Using Edimax Pro NMS you can monitor, configure and manage all Managed APs (up to 32) from the single AP Controller.

The OAP1750 functions as a Managed AP and cannot act as an AP Controller.



When using an Edimax NMS AP controller, other connected APs are automatically set to Managed APs. In the case that the AP Controller cannot find your OAP1750 as a Managed AP, you can configure the setting manually as below:

1. Ensure all APs including your OAP1750 are connected to an Ethernet or PoE switch which is connected to a gateway/router.

You can use your router as a DHCP server or you can later configure your AP Controller as a DHCP server.



2. Ensure all APs are powered on and check LEDs.





3. Ensure you have setup and designated one AP as the AP Controller which will manage all other connected APs (up to 32 depending on model).



4. Connect a computer to the OAP1750 via PoE switch using an Ethernet cable.





5. Open a web browser and enter the OAP1750's IP address in the address field. The default IP address is **192.168.2.2**



Your computer's IP address must be in the same subnet as the OAP1750. Refer to the user manual for more help.

Obtain an IP address automatically Use the following IP address: IP address: IP address: Subnet mask: Default gateway:	2 . 16	8.	2.10	
O Use the following IP address: IP address: IP address: Subnet mask: Default gateway:	2 . 16	8. 5.2	2.10 55.0	
IP address: 19 Subnet mask: 25 Default gateway:	2 . 16	8. 5.2	2.10 55.0	
Subnet mask: 25 Default gateway:	5 . 25	5.2	55.0	
Default gateway:	1	_		
	<u>*</u>	*	•	
Obtain DNS server address automatica	ly :			
Use the following DNS server addresse	\$:			
Preferred DNS server:	8	\$	6	
Alternate DNS server:				- 6

If you changed the AP Controller's IP address, or if your gateway/router uses a DHCP server, ensure you enter the correct IP address. Refer to your gateway/router's settings.

- **6.** Enter the username & password to login. The default username & password are **admin** & **1234**.
- You will arrive at the Edimax Pro NMS Dashboard. Go to "Operation Mode" and select "Managed AP Mode" from the drop down menu.



SDIMAX 😰		Home Logout Global (English) 🔻
O A P 1 7 5 0	Information Network Settings Wireless Settings Managemen	Operation Mode
Operation Mode Operation Mode	Operation Mode	4
	Operation Mode	
	Operation Mode AP Mode AP Mode	
	Wireless Mode Managed AP mode	
	2.4GHz Mode Access Point	
	5GHz Mode Access Point ▼	
		Apply Cancel

8. Click "Apply" to save the settings and your AP Controller & Managed APs should be fully functional. Use Edimax NMS on your AP controller to manage & monitor your Managed APs.



Refer to your AP controller's user manual for help with Edimax NMS.



III-3. Repeater Mode

When you set the **operation mode** to **repeater mode**, the AP will not get an IP address from the router/root AP. You will need to set your computer's IP address and use the APs default IP address to access the UI for the first time, refer to **Appendix** for more help.

Wireless Settings \rightarrow Wireless Extender displays details about the APs wireless connection in repeater mode and enables you to connect to a source SSID and configure the new (repeater) SSID. Settings are saved as **profiles**.

Operation Mode		
Operation Mode	Repeater Mode Repeater Mode 	
	AP Mode	
	Repeater Mode	
	Managed AP mode	

1. Set your computer's IP address to **192.168.2.x** where **x** is a number in the range **3** – **100**.

Please ensure there are no other active network connections on your computer (disconnect Wi-Fi connections and Ethernet cables).

2. Enter the access point's default IP address 192.168.2.2 into the URL bar of a web browser.



3. You will be prompted for a user name and password. Enter the default username "admin" and the default password "1234".



4. Go to Wireless Settings → Wireless Extender.

EDİMAX 🕐			Home Logout Global (English)
O A P 1 7 5 0	Information Network Settings	Wireless Settings Manageme	ent Advanced Operation Mode
Vireless Settings Wireless Extender	Wireless Extender Wireless Extender	R	
> 2.4GHz 11bgn	Site Survey	Wireless 2.4G / 5G	2.4G 5G Scan
Basic			
Advanced	Wireless 2.4GHz		
Security	Ch SSID MA	C Address Security	Signal (%) Type
> 5GHz 11ac 11an		You can click Scan button to st	art.
Basic			
Advanced	Wireless 5GHz		
Security	Ch SSID MA	C Address Security	Signal (%) Type
> WPS		You can click Scan button to st	art.
MAC Filter			
> WMM			
> Schedule			

5.Click **Scan** to search for and display available SSIDs and click **Select** to connect to an available source SSID. SSIDs can be configured independently for each frequency 2.4GHz & 5GHz.

Wireless Extender						
Site Survey Wireless 2.4G / 5G 2.4G 5G Scan						
Wirel	ess 2	2.4GHz (12 Accessp	oints)			
Select	Ch	SSID	MAC Address	Security	Signal (%)	Туре
0	1	FuzzyBear	E8:CC:18:4A:1E:91	WPA1PSKWPA2PSK/AES	2	b/g/n
2	117	matt	FC:75:16:EC:F9:88	WPA2PSK/AES	100	b/g/n
		Living Room TV	FA:8F:CA:5E:0C:47	NONE	98	b/g/n
8	10	TPE-Free_CHT	B0:C5:54:FB:F5:F7	NONE	22	b/g/n
\bigcirc	1	1f	64:09:80:7B:4F:13	WPA1PSKWPA2PSK /TKIPAES	3	b/g/n
	6	max866799	F8:35:DD:74:1F:36	WPA2PSK/AES	95	b/g/n
\bigcirc	7	JackWAP	F4:EC:38:EA:1B:E8	WPA1PSKWPA2PSK/AES	62	b/g/n
	10	Jackchen	D8:FE:E3:A4:9D:48	WPA2PSK/AES	67	b/g/n
	7	DIRECT-V8-BRAVIA	56:35:30:AA:72:AF	WPA2PSK/AES	53	b/g/n
	7	liao's Network	68:A8:6D:5B:75:51	WPA2PSK/AES	39	b/g/n
	10	CHT Wi-Fi Auto	B0:C5:54:FB:F5:F0	WPA1WPA2/TKIPAES	15	b/g/n
	11	maxsong	E8:99:C4:C3:4A:F8	WPAPSK/TKIPAES	25	b/g/n



6.Edit the new **extended** SSID according to your preference and enter the security details for the source SSID, and then click **Connect**.

Wireless Create profile	
SSID	matt
Extended SSID	matt
Authentication Method	WPA-PSK T
WPA Туре	WPA2 Only 🔻
Encryption Type	AES V
Pre-shared Key Type	Passphrase •
Pre-shared Key	
Connect Cancel	

7.The AP in repeater mode will establish a connection to the source SSID and repeat the extended SSID. The repeater AP will become a DHCP client of the router/root AP. Switch your computer back to a dynamic IP address.

Internet F	Internet Protocol Version 4 (TCP/IPv4) Properties					×	
General	Alternative Configuration						
You car this cap for the	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
⊙ Ot	Obtain an IP address automatically						
OUs	e the following IP address: —						
IP ac	ldress:]	
Subr	iet mask:]	
Defa	ult gateway:]	
⊙ Oł	otain DNS server address autor	natically					
	e the following DNS server add	resses:					
Prefe	erred DNS server:]	
Alter	native DNS server:]	
V	alidate settings upon exit				Advan	iced	
		E	0	к		Cancel	



8.To access the web U.I. use the URL **http://edimax.setup.com** when connected to the same network as the repeater, or check your router/root AP's settings to determine the repeater's new IP address.

 $\leftarrow \Rightarrow \mathbf{C}$ 🗋 edimax.setup.com

EDIMAX IV. Browser Based Configuration Interface

In Managed AP mode some functions of the browser based configuration interface are disabled. Please use Edimax Pro NMS on your Controller AP to configure your Managed AP(s).

The browser-based configuration interface enables you to configure the access point's advanced features. The OAP1750 features a range of advanced functions such as MAC filtering, MAC RADIUS authentication, VLAN configurations, up to 32 SSIDs and many more. To access the browser based configuration interface:

- **1.** Connect a computer to your access point using an Ethernet cable.
- **2.** Enter your access point's IP address in the URL bar of a web browser. The access point's default IP address is **192.168.2.2**.
- **3.** You will be prompted for a username and password. The default username is "admin" and the default password is "1234", though it was recommended that you change the password during setup (see III-2. Basic Settings).

If you cannot remember your password, reset the access point back to its factory default settings. Refer to 1-5. Reset

4. You will arrive at the "System Information" screen shown below.



Home | Logout | Global (English) 🔻



	Information Network Setting	gs Wireless Settings Management A	dvanced Operation Mode
Information	System Information		
System Information			
> Wireless Clients	System		
Minelana Manikan	Model	OAP1750	
Wireless Monitor	Product Name	AP801F0275EFA8	
> DHCP Clients	Uptime	0 day 00:19:38	
	System Time	2012/01/01 00:19:37	
> Log	Boot from	Internal memory	
	Firmware Version	1.3.0	
	MAC Address	80:1F:02:75:EF:A8	
	Management VLAN ID	1	
	IP Address	192.168.0.107 Refresh	
	Default Gateway	192.168.0.1	
	DNS	192.168.0.1	
	DHCP Server	192.168.0.1	

5.Use the menu across the top and down the left side to navigate. Click "Apply" to save changes and reload the access point, or "Cancel" to cancel changes.



Please wait a few seconds for the access point to reload after you "Apply" changes, as shown below.

Configuration is complete. Reloading now... Please wait for ²³ seconds.

6. Please refer to the following chapters for full descriptions of the browser based configuration interface features.



IV-1. Information

Information Network Settings Wireless Settings Management Advanced Operation Mode

Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-1-1. System Information

System Information

The "System Information" page displays basic system information about the access point.

System		
Model	OAP1750	
Product Name	AP801F0275EFA8	
Uptime	0 day 00:38:18	
System Time	2012/01/01 00:55:18	
Boot from	Internal memory	
Firmware Version	1.3.0	
MAC Address	80:1F:02:75:EF:A8	
Management VLAN ID	1	
IP Address	192.168.0.107 Refresh	
Default Gateway	192.168.0.1	
DNS	192.168.0.1	
DHCP Server	192.168.0.1	



Wired LAN Port Settings			
Wired LAN Port	Status	VLAN Mode/ID	
LAN1	Connected (100 Mbps Full-Duplex)	Untagged Port / 1	

Wirel	ess	2.4	GHz
		_	0112

Status	Enabled
MAC Address	80:1F:02:75:EF:A8
Channel	Ch 2 (Auto)
Transmit Power	100%
RSSI	-91/-83/-80

Wireless	24	CH7	/SSID
11 61633	-		10010

SSID	Authentication Method	Encryption Type	VLAN ID	Additional Authentication	Wireless Client Isolation
EDIMAX-75EFA 8_G	No Authentication	No Encryption	1	No additional authentication	Disabled

Wireless 2.4GHz /WDS Disabled			
MAC Address	Encryption Type	VLAN Mode/ID	
	No WDS entries.		

Wireless 5GHz	
Status	Enabled
MAC Address	80:1F:02:75:EF:A9
Channel	Ch 36 + 40 + 44 + 48 (Auto)
Transmit Power	100%
RSSI	0/0

Wireless 5GHz /	SSID				
SSID	Authentication Method	Encryption Type	VLAN ID	Additional Authentication	Wireless Client Isolation
EDIMAX-75EFA 8_A	No Authentication	No Encryption	1	No additional authentication	Disabled

Wireless 5GHz /WDS Disabled			
MAC Address	Encryption Type	VLAN Mode/ID	
	No WDS entries.		

System	
Model	Displays the model number of the access
	point.
Product Name	Displays the product name for reference,
	which consists of "AP" plus the MAC address.
Uptime	Displays the total time since the device was
	turned on.
Boot From	Displays information for the booted
	hardware, booted from either USB or internal
	memory.
Firmware Version	Displays the firmware version.
MAC Address	Displays the access point's MAC address.
Management VLAN	Displays the management VLAN ID.
ID	
IP Address	Displays the IP address of this device. Click
	"Refresh" to update this value.
Default	Displays the IP address of the default
Gateway	gateway.
DNS	IP address of DNS (Domain Name Server)
DHCP Server	IP address of DHCP Server.

Wired LAN Port Settin	gs
Wired LAN Port	Specifies which LAN port.
Status	Displays the status of the specified LAN port
	(connected or disconnected).
VLAN Mode/ID	Displays the VLAN mode (tagged or untagged) and VLAN ID for the specified LAN port. See
IV-2-3. VLAN	

Wireless 2.4GHz (5GH	Wireless 2.4GHz (5GHz)		
Status	Displays the status of the 2.4GHz or 5GHz		
	wireless (enabled or disabled).		
MAC Address	Displays the access point's MAC address.		
Channel	Displays the channel number the specified		
	wireless frequency is using for broadcast.		
Transmit Power	Displays the wireless radio transmit power		
	level as a percentage.		
RSSI	Displays Received Signal Strength Indicator.		



Wireless 2.4GHZ (5GH	z) / SSID
SSID	Displays the SSID name(s) for the specified
	frequency.
Authentication	Displays the authentication method for the
Method	specified SSID. See IV-3. Wireless Settings
Encryption Type	Displays the encryption type for the specified
	SSID. See IV-3. Wireless Settings
VLAN ID	Displays the VLAN ID for the specified SSID.
	See IV-2-3. VLAN
Additional	Displays the additional authentication type for
Authentication	the specified SSID. See IV-3. Wireless Settings
Wireless Client	Displays whether wireless client isolation is in
Isolation	use for the specified SSID. See IV-2-3. VLAN

WDS Status	
plays the peer access point's MAC address.	
plays the encryption type for the specified	
S. See IV-3-1-4. WDS	
plays the VLAN ID for the specified WDS.	
See IV-3-1-4. WDS	

Refresh	Click to refresh all information.

Extender Mode:

Wireless 2.4GHz	
Connection Status	Connected
Source SSID	matt
Extended SSID	matt
Authentication Method	WPA2-PSK
Encryption Type	AES
MAC Address	02:1F:02:75:EF:A8
Channel	Ch 11
Transmit Power	100%
RSSI	-41/-37/-33

Wireless 2.4GHZ (5GHz) / SSID		
Connection Status Current status of the repeater's connection.		
Source SSID	Displays the SSID name(s) for the repeater's	
source.		



Displays the SSID name(s) of the repeater.
Displays the authentication method for the
specified SSID. See IV-3. Wireless Settings
Displays the encryption type for the specified
SSID. See IV-3. Wireless Settings
Displays the access point's MAC address.
Displays the channel number the specified
wireless frequency is using for broadcast.
Displays the wireless radio transmit power
level as a percentage.
Displays Received Signal Strength Indicator.



IV-1-2. Wireless Clients

Wireless Clients

The "Wireless Clients" page displays information about all wireless clients

connected to the access point on the 2.4GHz or 5GHz frequency.

Auto Refresh Time			S seconds 1 second Disable								
Manual Refresh		Refresh									
4(GHz WLAN Cli	ient Table									
ŧ	SSID	MAC Address		Тх	R	x	Signal (%)	Conr Ti	nected me	ldle Time	Vendor
1	EDIMAX-75EFA 8_G	A4:77:33:1E:0C:4	47	1.5 MBytes	12 s KBy	3.7 /tes	100	6 min	5 secs	0	Google
2	EDIMAX-75EFA 8_G	F8:A9:D0:0B:7D:	A8	31.8 KBytes	39.2 k	Bytes	100	1 m se	in 54 ecs	0	LG Electronics
;1	Hz WLAN Clier	nt Table									
ŧ	SSID	MAC Address		Тх	Rx	Signa	l Conn Tir	ected ne	ldle Time	,	Vendor
				24.8	164.7	(14)	1 mi	n 46		۵	SUSTek

Refresh time	
Auto Refresh Time Select a time interval for the client table I	
	automatically refresh.
Manual Refresh	Click refresh to manually refresh the client
	table.

2.4GHz (5GHz) WLAN Client Table				
SSID	Displays the SSID which the client is			
	connected to.			
MAC Address	Displays the MAC address of the client.			
Тх	Displays the total data packets transmitted by			
	the specified client.			
Rx	Displays the total data packets received by			
	the specified client.			



Signal (%)	Displays the wireless signal strength for the
	specified client.
Connected Time	Displays the total time the wireless client has
	been connected to the access point.
Idle Time	Client idle time is the time for which the client
	has not transmitted any data packets i.e. is
	idle.
Vendor	The vendor of the client's wireless adapter is
	displayed here.



IV-1-3. Wireless Monitor

> Wireless Monitor

Wireless Monitor is a tool built into the access point to scan and monitor the surrounding

wireless environment. Select a frequency and click "Scan" to display a list of all SSIDs within range along with relevant details for each SSID.

Wireless Monitor			
014 0			
Site Survey	Wireless 2.4G/ 5G 0 2.4G 0 5G Scan		
Channel Survey result	Export		

Wireless 2.4GHz							
Ch	SSID	MAC Address	Security	Signal (%)	Туре	Vendor	
1	Matt	00:E0:4C:81:96:C1	WPA2PSK/AES	100	11b/g/n	REALTEK SEMICONDUCTOR CORP.	
Wi	Wireless 5GHz						
Ch	SSI	D MAC Addr	ess Security S	Signal (%)	T	ype Vendor	
	You can click Scan button to start.						

Wireless Monitor	
Site Survey	Select which frequency (or both) to scan, and
	click "Scan" to begin.
Channel Survey	After a scan is complete, click "Export" to save
Result	the results to local storage.

Site Survey Results			
Ch Displays the channel number used by the			
	specified SSID.		
SSID	Displays the SSID identified by the scan.		
MAC Address	Displays the MAC address of the wireless		
	router/access point for the specified SSID.		
Security	Displays the authentication/encryption type		
	of the specified SSID.		


Signal (%)	Displays the current signal strength of the SSID.	
Туре	Displays the 802.11 wireless networking standard(s) of the specified SSID.	
Vendor	Displays the vendor of the wireless router/access point for the specified SSID.	



IV-1-4. DHCP Client Table

DHCP Clients

The DHCP client table displays information about DHCP clients when DHCP server is

enabled.

DHCP Client Table			
IP Address	MAC Address	Expiration Time	
192.168.2.120	A4:77:33:1E:0C:47	Expired	

DHCP Client Table	
IP Address	Displays the IP address of listed DHCP client.
MAC Address	Displays the MAC address of listed DHCP client.
Expiration Time	Displays the expiration time for listed DHCP client.



IV-1-5. Log

System Log

The system log displays system operation information such as up time and connection

processes. This information is useful for network administrators.

When the log is full, old entries are overwritten. Use the Search function to quickly locate log entries.

All Even	ts/Activities				
Search		🗌 Ma	tch whole word	s	
ID 🔻	Date and Time	Category 🔺	Severity 🔺	Users 🔺	Events/Activities
72	2012/01/01 00:04:45	SYSTEM	Low	admin	WLAN[5G], Best channel selection start, switch to channel 36 + 40 + 44 + 48
71	2012/01/01 00:04:41	SYSTEM	Low	admin	WLAN[2.4G], Best channel selection start, switch to channel 2

Save	Click to save the log as a file on your local	
	computer.	
Clear	Clear all log entries.	
Refresh	Refresh the current log.	



The following information/events are recorded by the log:

•	USB
	Mount & unmount
\blacklozenge	Wireless Client
	Connected & disconnected
	Key exchange success & fail
\blacklozenge	Authentication
	Authentication fail or successful.
٠	Association
	Success or fail
\blacklozenge	WPS
	M1 - M8 messages
	WPS success
•	Change Settings
•	System Boot
	Displays current model name
•	NTP Client
•	Wired Link
	LAN Port link status and speed status
•	Proxy ARP
	Proxy ARP module start & stop
•	Bridge
	Bridge start & stop.
•	SNMP
•	SNMP server start & stop.
•	НТТР
•	HTTP start & stop.
•	HTTPS
	HTTPS start & stop.
•	SSH
	SSH-client server start & stop.
•	Telnet
	leinet-client server start or stop.
•	WLAN (2.4G)
	WLAN (2.4G) channel status and country/region status
•	
	WLAN (5G) channel status and country/region status



IV-2. Network Settings

Information Network Settings Wireless Settings Management Advanced Operation Mode

Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-2-1. LAN-Side IP Address

LAN-side IP Address The "LAN-side IP address" page allows you to configure your access point on your Local Area Network (LAN). You can enable the access point to dynamically receive an IP address from your router's DHCP server or you can specify a static IP address for your access point, as well as configure DNS servers.

A The access point's default IP address is 192.168.2.2.

LAN-side IP Address			
IP Address Assignment	DHCP Client		
IP Address	192.168.2.2		
Subnet Mask	255.255.255.0		
Default Gateway	From DHCP V		
Primary DNS Address	From DHCP • 0.0.0.0		
Secondary DNS Address	From DHCP V 0.0.0.0		

LAN-side IP Address	
IP Address	Select "DHCP Client" for your access point to
Assignment	be assigned a dynamic IP address from your router's DHCP server, or select "Static IP" to manually specify a static/fixed IP address for your access point (below).
IP Address	Specify the IP address here. This IP address will be assigned to your access point and will replace the default IP address.
Subnet Mask	Specify a subnet mask. The default value is 255.255.255.0



Default Gateway	For DHCP users, select "From DHCP" to get		
	default gateway from your DHCP server or		
	"User-Defined" to enter a gateway manually.		
	For static IP users, the default value is blank.		

DHCP users can select to get DNS servers' IP address from DHCP or manually enter a value. For static IP users, the default value is blank.

Primary Address	DHCP users can select "From DHCP" to get primary DNS server's IP address from DHCP or "User-Defined" to manually enter a value. For static IP users, the default value is blank.	
Secondary Address	Users can manually enter a value when DNS server's primary address is set to "User-Defined".	



IV-2-2. LAN Port

LAN Port

The "LAN Port" page allows you to configure the settings for your access

point's two wired LAN (Ethernet) ports.

Wired LAN Port Settings				
Wined LAN Dort	Cread & Du	nlav	Elaw Cantrol	802.2
WIRED LAN POR	speed & Du	piex	Flow Control	602.3az
LAN1	Auto	•	Enabled <	Enabled <

Wired LAN Port	Identifies LAN port number.
Enable	Enable/disable specified LAN port.
Speed & Duplex	Select a speed & duplex type for specified LAN port, or use the "Auto" value. LAN ports can operate up to 1000Mbps and full-duplex enables simultaneous data packets transfer/receive.
Flow Control	Enable/disable flow control. Flow control can pause new session request until current data processing is complete, in order to avoid device overloads under heavy traffic.
802.3az	Enable/disable 802.3az. 802.3az is an Energy Efficient Ethernet feature which disables unused interfaces to reduce power usage.



IV-2-3. VLAN



The "VLAN" (Virtual Local Area Network) enables you to configure VLAN settings. A VLAN is a local area network which maps

workstations virtually instead of physically and allows you to group together or isolate users from each other. VLAN IDs 1 – 4095 are supported.



👍 VLAN IDs in the range 1 – 4095 are supported.

VLAN Interface		
Wired LAN Port	VLAN Mode	VLAN ID
LAN1	Untagged Port <	1
Wireless 2.4GHz	VLAN Mode	VLAN ID
SSID [EDIMAX-75EFA8_G]	Untagged Port	1
Wireless 5GHz	VLAN Mode	VLAN ID
SSID [EDIMAX-75EFA8_A]	Untagged Port	1

Management VLAN		
VLAN ID	1	

VLAN Interface		
Wired LAN	Identifies LAN port number and wireless SSIDs.	
Port/Wireless		
VLAN Mode Select "Tagged Port" or "Untagged Port" for		
	specified LAN interface.	
VLAN ID	Set a VLAN ID for specified interface, if	
	"Untagged Port" is selected.	

Management VLAN	
VLAN ID	Specify the VLAN ID of the management VLAN.
	Only the hosts belonging to the same VLAN can
	manage the device.



IV-3. Wireless Settings

Information Network Settings Wireless Settings Management Advanced Operation Mode

Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-3-1. Wireless Extender



Wireless Extender

The wireless extender page displays details about the APs wireless connection in repeater

mode and enables you to connect to a source SSID and configure the new (repeater) SSID. Settings are saved as **profiles**. Click **Scan** to search for and display available SSIDs and click **Select** to connect to an available SSID. SSIDs can be configured independently for each frequency 2.4GHz & 5GHz.

W	Wireless Extender						
5	Site Survey						
V	Virel	ess 2	2.4GHz (12 Accessp	oints)			
S	elect	Ch	SSID	MAC Address	Security	Signal (%)	Туре
		1	FuzzyBear	E8:CC:18:4A:1E:91	WPA1PSKWPA2PSK/AES	2	b/g/n
	2	117	matt	FC:75:16:EC:F9:88	WPA2PSK/AES	100	b/g/n
	e.		Living Room TV	FA:8F:CA:5E:0C:47	NONE	98	b/g/n
	8	10	TPE-Free_CHT	B0:C5:54:FB:F5:F7	NONE	22	b/g/n
		1	1f	64:09:80:7B:4F:13	WPA1PSKWPA2PSK /TKIPAES	3	b/g/n
		6	max866799	F8:35:DD:74:1F:36	WPA2PSK/AES	95	b/g/n
		7	JackWAP	F4:EC:38:EA:1B:E8	WPA1PSKWPA2PSK/AES	62	b/g/n
		10	Jackchen	D8:FE:E3:A4:9D:48	WPA2PSK/AES	67	b/g/n
		7	DIRECT-V8-BRAVIA	56:35:30:AA:72:AF	WPA2PSK/AES	53	b/g/n
		7	liao's Network	68:A8:6D:5B:75:51	WPA2PSK/AES	39	b/g/n
		10	CHT Wi-Fi Auto	B0:C5:54:FB:F5:F0	WPA1WPA2/TKIPAES	15	b/g/n
		11	maxsong	E8:99:C4:C3:4A:F8	WPAPSK/TKIPAES	25	b/g/n



Wireless Create profile	
SSID	matt
Extended SSID	matt
Authentication Method	WPA-PSK V
WPA Туре	WPA2 Only 🔻
Encryption Type	AES V
Pre-shared Key Type	Passphrase
Pre-shared Key	
Connect Cancel	

Wireless 2.4GHz/5GHz		
Select	Click to select an SSID and display a new Create Profile window to enter security information	
	(below).	
Channel	Displays the channel number of listed SSID.	
SSID	Displays the SSID.	
MAC Address	Displays the MAC address of specified SSID.	
Security	Displays the existing security type for listed SSID.	
Signal (%)	Displays the available signal strength for listed SSID.	
Туре	Displays the wireless 802.11 standard for each SSID.	

Wireless Create Profile		
SSID	Displays the selected source SSID for this	
	profile.	
Extended SSID	Edit the new SSID for this profile.	
Authentication	Select the source SSIDs authentication method	
Method	and enter encryption key/pre-shared key.	



Profile List IV-3-2.

Profile List



👍 Only available in Repeater Mode

Repeater mode settings are saved as profiles. Profiles can be edited and multiple profiles can be created to switch between profiles

easily as required. Select an existing profile and click Edit or Connect.

Wireless 2.4GHz Current Setting		
SSID	Authentication Method	Encryption Type
matt	WPA2-PSK	AES

Wireless 2.4GHz Profile List			
Select	SSID	Authentication Method	Encryption Type
	matt	WPA2-PSK	AES
			Edit Connect

Wireless Create profile		
SSID	matt	
Extended SSID	matt	
Authentication Method	WPA-PSK •	
WPA Туре	WPA2 Only 🔻	
Encryption Type	AES V	
Pre-shared Key Type	Passphrase	
Pre-shared Key		
Connect Cancel		

Wireless Create Profile		
SSID	Displays the selected source SSID for this profile	
	prome.	
Extended SSID	Edit the new SSID for this profile.	
Authentication	Select the source SSIDs authentication method	
Method	and enter encryption key/pre-shared key.	



IV-3-3. 2.4GHz 11bgn

> 2.4GHz 11bgn

The "2.4GHz 11bgn" menu allows you to view and configure information for your access point's 2.4GHz wireless network across five

categories: Basic, Advanced, Security, WDS & Schedule.

IV-3-3-1. Basic

Basic

The "Basic" screen displays basic settings for your access point's 2.4GHz Wi-Fi network (s).

Wireless	Enable Disable
Band	11b/g/n ▼
Enable SSID number	1 •
SSID1	EDIMAX-75EFA8_G VLAN ID 1
Auto Channel	Enable Disable
Auto Channel Range	Ch 1 - 11 🔻
Auto Channel Internel	One day 🔻
Auto Channel Interval	Change channel even if clients are connected
	Auto
Channel Bandwidth	Adio

Auto Channel	Enable Disable
Channel	Ch 11, 2462MHz 🔻
Channel Bandwidth	Auto, +Ch 7 🔹
BSS BasicRateSet	1,2,5.5,11 Mbps



Wireless	Enable or disable the access point's 2.4GHz wireless radio. When disabled, no 2.4GHz
Dana	Soloct the wireless standard used for the
Band	Select the wireless standard used for the
	access point. Combinations of 802.11b,
	802.11g & 802.11n can be selected.
Enable SSID Number	Select now many SSIDs to enable for the
	2.4GHz frequency from the drop down menu.
	A maximum of 16 can be enabled.
SSID#	Enter the SSID name for the specified SSID (up
	to 16). The SSID can consist of any
	combination of up to 32 alphanumeric
	characters.
VLAN ID	Specify a VLAN ID for each SSID.
Auto Channel	Enable/disable auto channel selection. Auto
	channel selection will automatically set the
	wireless channel for the access point's 2.4GHz
	frequency based on availability and potential
	interference. When disabled, select a channel
	manually as shown in the next table.
Auto Channel Range	Select a range from which the auto channel
	setting (above) will choose a channel.
Auto Channel	Specify a frequency for how often the auto
Interval	channel setting will check/reassign the
	wireless channel. Check/uncheck the "Change
	channel even if clients are connected" box
	according to your preference.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower
	performance but less interference), 40MHz
	(higher performance but potentially higher
	interference) or Auto (automatically select
	based on interference level).
BSS BasicRateSet	Set a Basic Service Set (BSS) rate: this is a
	series of rates to control communication
	frames for wireless clients.



When auto channel is disabled, select a wireless channel manually:

Channel	Select a wireless channel from 1 – 11.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower
	performance but less interference), 40MHz
	(higher performance but potentially higher
	interference) or Auto (automatically select
	based on interference level).
BSS BasicRate Set	Set a Basic Service Set (BSS) rate: this is a
	series of rates to control communication
	frames for wireless clients.



IV-3-3-2. Advanced

Advanced

These settings are for experienced users only. Please do not change any of the values on this

page unless you are already familiar with these functions.



Changing these settings can adversely affect the performance of your access point.

2.4GHz Advanced Settings	
Contention Slot	Short V
Preamble Type	Short V
Guard Interval	Short GI 🗸
802.11g Protection	Enable Disable
802.11n Protection	Enable Obisable
DTIM Period	1 (1-255)
RTS Threshold	2347 (1-2347)
Fragment Threshold	2346 (256–2346)
Multicast Rate	Auto 🗸
Tx Power	100% 🗸
Beacon Interval	100 (40-1000 ms)
Station idle timeout	60 (30-65535 seconds)

Contention Slot	Select "Short" or "Long" – this value is used for contention windows in WMM (see IV-3-6. WMM).
Preamble Type	Set the wireless radio preamble type. The preamble type in 802.11 based wireless communication defines the length of the CRC (Cyclic Redundancy Check) block for communication between the access point and roaming wireless adapters. The default value is "Short Preamble".
Guard Interval	Set the guard interval. A shorter interval can improve performance.



802.11g Protection	Enable/disable 802.11g protection, which increases reliability but reduces bandwidth (clients will send Request to Send (RTS) to access point, and access point will broadcast Clear to Send (CTS), before a packet is sent from client.)
802.11n Protection	Enable/disable 802.11n protection, which increases reliability but reduces bandwidth (clients will send Request to Send (RTS) to access point, and access point will broadcast Clear to Send (CTS), before a packet is sent from client.)
DTIM Period	Set the DTIM (delivery traffic indication message) period value of the wireless radio. The default value is 1.
RTS Threshold	Set the RTS threshold of the wireless radio. The default value is 2347.
Fragment Threshold	Set the fragment threshold of the wireless radio. The default value is 2346.
Multicast Rate	Set the transfer rate for multicast packets or use the "Auto" setting.
Tx Power	Set the power output of the wireless radio. You may not require 100% output power. Setting a lower power output can enhance security since potentially malicious/unknown users in distant areas will not be able to access your signal.
Beacon Interval	Set the beacon interval of the wireless radio. The default value is 100.
Station idle timeout	Set the interval for keepalive messages from the access point to a wireless client to verify if the station is still alive/active.



IV-3-3-3. Security

Security

The access point provides various security options (wireless data encryption). When data is

encrypted, information transmitted wirelessly cannot be read by anyone who does not know the correct encryption key.



It's essential to configure wireless security in order to prevent unauthorised access to your network.



Select hard-to-guess passwords which include combinations of numbers, letters and symbols, and change your password regularly.

2.4GHz Wireless Security Settings	
SSID	EDIMAX-75EFA8_G 🔻
Broadcast SSID	Enable 🔻
Wireless Client Isolation	Disable •
Load Balancing	50 /50
Authentication Method	No Authentication v
Additional Authentication	No additional authentication

2.4GHz Wireless Advanced Settings		
Smart Handover Settings		
Smart Handover	🔍 Enable 🔘 Disable	
RSSI Threshold	-80 ▼ dB	



2.4GHz Wireless Security Settings	
SSID Selection	Select which SSID to configure security settings for.
Broadcast SSID	Enable or disable SSID broadcast. When enabled, the SSID will be visible to clients as an available Wi-Fi network. When disabled, the SSID will not be visible as an available Wi-Fi network to clients – clients must manually enter the SSID in order to connect. A hidden (disabled) SSID is typically more secure than a visible (enabled) SSID.
Wireless Client Isolation	Enable or disable wireless client isolation. Wireless client isolation prevents clients connected to the access point from communicating with each other and improves security. Typically, this function is useful for corporate environments or public hot spots and can prevent brute force attacks on clients' usernames and passwords.
Load Balancing	Load balancing limits the number of wireless clients connected to an SSID. Set a load balancing value (maximum 50).
Authentication Method	Select an authentication method from the drop down menu and refer to the information below appropriate for your method.
Additional Authentication	Select an additional authentication method from the drop down menu and refer to the information below (IV-3-1-3-6.) appropriate for your method.

2.4GHz Wireless Advanced Settings	
Smart Handover	Enable or disable smart handover.
RSSI Threshold	Set the Received Signal Strength Indicator (RSSI) threshold to maintain quality connection speeds (minimum receiver sensitivity required for a connection).



IV-3-3-3-1. No Authentication

Authentication is disabled and no password/key is required to connect to the access point.

Disabling wireless authentication is not recommended. When disabled, anybody within range can connect to your device's SSID.

IV-3-3-3-2. WEP

WEP (Wired Equivalent Privacy) is a basic encryption type. For a higher level of security consider using WPA encryption.

Key Length	Select 64-bit or 128-bit. 128-bit is more secure than 64-bit and is recommended.
Кеу Туре	Choose from "ASCII" (any alphanumerical character 0-9, a-z and A-Z) or "Hex" (any characters from 0-9, a-f and A-F).
Default Key	Select which encryption key (1 – 4 below) is the default key. For security purposes, you can set up to four keys (below) and change which is the default key.
Encryption Key 1 – 4	Enter your encryption key/password according to the format you selected above.

IV-3-3-3-3. IEEE802.1x/EAP

Key Length	Select 64-bit or 128-bit. 128-bit is more secure
	than 64-bit and is recommended.

IV-3-3-3-4. WPA-PSK

WPA-PSK is a secure wireless encryption type with strong data protection and user authentication, utilizing 128-bit encryption keys.

WPA Type	Select from WPA/WPA2 Mixed Mode-PSK,
	WPA2 or WPA only. WPA2 is safer than WPA
	only, but not supported by all wireless clients.
	Please make sure your wireless client supports



	your selection.
Encryption	Select "TKIP/AES Mixed Mode" or "AES" encryption type.
Key Renewal Interval	Specify a frequency for key renewal in minutes.
Pre-Shared Key Type	Choose from "Passphrase" (8 – 63 alphanumeric characters) or "Hex" (up to 64 characters from 0-9, a-f and A-F).
Pre-Shared Key	Please enter a security key/password according to the format you selected above.

IV-3-3-3-5. WPA-EAP

WPA Туре	Select from WPA/WPA2 Mixed Mode-EAP, WPA2-EAP or WPA-EAP.	
Encryption Type	Select "TKIP/AES Mixed Mode" or "AES" encryption type.	
Key Renewal Interval	Specify a frequency for key renewal in minutes.	

WPA-EAP must be disabled to use MAC-RADIUS authentication.

IV-3-3-3-6. Additional Authentication

Additional wireless authentication methods can also be used:



WPS must be disabled to use additional authentication. See IV-3-3. for WPS settings.

MAC Address Filter

Restrict wireless clients access based on MAC address specified in the MAC filter table.



MAC Filter & MAC-RADIUS Authentication

Restrict wireless clients access using both of the above MAC filtering & **RADIUS** authentication methods.



MAC-RADIUS Authentication

Restrict wireless clients access based on MAC address via a RADIUS server, or password authentication via a RADIUS server.





WPS must be disabled to use MAC-RADIUS authentication. See *IV-3-3.* **for WPS settings.**

MAC RADIUS Password

Use MAC address
Use the following password

MAC RADIUS	Select whether to use MAC address or
Password	password authentication via RADIUS server. If
	the password in the field below. The password should match the "Shared Secret" used in
	IV-3-4. RADIUS.



IV-3-3-4. WDS

VLAN ID

WDS

Wireless Distribution System (WDS) can bridge/repeat access points together in an

extended network. WDS settings can be configured as shown below.

When using WDS, configure the IP address of each access point to be in the same subnet and ensure there is only one active DHCP server among connected access points, preferably on the WAN side.

WDS must be configured on each access point, using correct MAC addresses. All access points should use the same wireless channel and encryption method.

2.4GHz	
WDS Functionality Local MAC Address	Disabled Disabled WDS with AP Dedicated WDS
WDS Peer Settings	
WDS #1	MAC Address
WDS #2	MAC Address
WDS #3	MAC Address
WDS #4	MAC Address
WDS VLAN	
VLAN Mode	Untagged Port v (Enter at least one MAC address.)

WDS Encryption method	
Encryption	None 👻 (Enter at least one MAC address.)

1



2.4GHz	
WDS Functionality	Select "WDS with AP" to use WDS with access point or "WDS Dedicated Mode" to use WDS and also block communication with regular wireless clients. When WDS is used, each access point should be configured with corresponding MAC addresses, wireless channel and wireless encryption method.
Local MAC Address	Displays the MAC address of your access point.

WDS Peer Settings	
WDS #	Enter the MAC address for up to four other
	WDS devices you wish to connect.

WDS VLAN	
VLAN Mode	Specify the WDS VLAN mode to "Untagged
	Port" or "Tagged Port".
VLAN ID	Specify the WDS VLAN ID when "Untagged
	Port" is selected above.

WDS Encryption met	hod
Encryption	Select whether to use "None" or "AES" encryption and enter a pre-shared key for AES consisting of 8-63 alphanumeric characters.



IV-3-4. 5GHz 11ac 11an

> 5GHz 11ac 11an

The "5GHz 11ac 11an" menu allows you to view and configure information for your access point's

5GHz wireless network across five categories: Basic, Advanced, Security, WDS & Schedule.

IV-3-4-1. Basic

Basic

The "Basic" screen displays basic settings for your access point's 5GHz Wi-Fi network (s).

Wireless	Enable Disable	
Band	11a/n/ac ▼	
Enable SSID number	1 •	
SSID1	EDIMAX-75EFA8_A	VLAN ID 1
Auto Channel	Enable Disable	
Auto Channel Range	Band 1 🔻	
Auto Channel Interval	One day 🔻	
Auto Channel Interval	Change channel even if clients are co	onnected
Channel Bandwidth	Auto 80/40/20 MHz 🔻	
RSS Basic Data Sat	6 12 24 Mbps	



Auto Channel	O Enable
Channel	Ch 36, 5.18GHz 🗸
Channel Bandwidth	Auto 80/40/20 MHz 🗸
BSS BasicRateSet	6,12,24 Mbps 🗸

Wireless	Enable or disable the access point's 5GHz wireless radio. When disabled, no 5GHz SSIDs will be active.
Band	Select the wireless standard used for the



	access point. Combinations of 802.11a,
	802.11n & 802.11ac can be selected.
Enable SSID Number	Select how many SSIDs to enable for the 5GHz
	frequency from the drop down menu. A
	maximum of 16 can be enabled.
SSID#	Enter the SSID name for the specified SSID (up
	to 16). The SSID can consist of any
	combination of up to 32 alphanumeric
	characters.
VLAN ID	Specify a VLAN ID for each SSID.
Auto Channel	Enable/disable auto channel selection. Auto
	channel selection will automatically set the
	wireless channel for the access point's 5GHz
	frequency based on availability and potential
	interference. When disabled, select a channel
	manually as shown in the next table.
Auto Channel Range	Select a range from which the auto channel
	setting (above) will choose a channel.
Auto Channel	Specify a frequency for how often the auto
Interval	channel setting will check/reassign the
	wireless channel. Check/uncheck the "Change
	channel even if clients are connected" box
	according to your preference.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower
	performance but less interference), Auto
	40/20MHz or Auto 80/40/20MHz
	(automatically select based on interference
	level).
BSS BasicRate Set	Set a Basic Service Set (BSS) rate: this is a
	series of rates to control communication
	frames for wireless clients.

When auto channel is disabled, select a wireless channel manually:

Channel	Select a wireless channel.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower
	performance but less interference), Auto
	40/20MHz or Auto 80/40/20MHz
	(automatically select based on interference
	level).



BSS BasicRate Set	Set a Basic Service Set (BSS) rate: this is a
	series of rates to control communication
	frames for wireless clients.

IV-3-4-2. Advanced



These settings are for experienced users only. Please do not change any of the values on this

page unless you are already familiar with these functions.



Changing these settings can adversely affect the performance of your access point.

Guard Interval	Short GI	 Image: A start of the start of
802.11n Protection	Enable	O Disable
DTIM Period	1	(1-255)
RTS Threshold	2347	(1-2347)
Fragment Threshold	2346	(256–2346)
Multicast Rate	Auto	✓
Tx Power	100% 🗸	
Beacon Interval	100	(40-1000 ms)
Station idle timeout	60	(30-65535 seconds)

Guard Interval	Set the guard interval. A shorter interval can
	improve performance.
802.11n Protection	Enable/disable 802.11n protection, which increases reliability but reduces bandwidth (clients will send Request to Send (RTS) to access point, and access point will broadcast Clear to Send (CTS), before a packet is sent from client.)
DTIM Period	Set the DTIM (delivery traffic indication message) period value of the wireless radio. The default value is 1.
RTS Threshold	Set the RTS threshold of the wireless radio. The default value is 2347.



Fragment	Set the fragment threshold of the wireless
Threshold	radio. The default value is 2346.
Multicast Rate	Set the transfer rate for multicast packets or
	use the "Auto" setting.
Tx Power	Set the power output of the wireless radio. You
	may not require 100% output power. Setting a
	lower power output can enhance security since
	potentially malicious/unknown users in distant
	areas will not be able to access your signal.
Beacon Interval	Set the beacon interval of the wireless radio.
	The default value is 100.
Station idle	Set the interval for keepalive messages from
timeout	the access point to a wireless client to verify if
	the station is still alive/active.



IV-3-4-3. Security

Security

The access point provides various security options (wireless data encryption). When data is encrypted, information transmitted wirelessly

cannot be read by anyone who does not know the correct encryption key.

It's essential to configure wireless security in order to prevent unauthorised access to your network.

Select hard-to-guess passwords which include combinations of numbers, letters and symbols, and change your password regularly.

5GHz Wireless Security Settings	
SSID	EDIMAX-75EFA8_A 🔻
Broadcast SSID	Enable 🔻
Wireless Client Isolation	Disable •
Load Balancing	50 /50
Authentication Method	No Authentication 🔻
Additional Authentication	No additional authentication

SSID Selection	Select which SSID to configure security settings
	for.
Broadcast SSID	Enable or disable SSID broadcast. When
	enabled, the SSID will be visible to clients as an
	available Wi-Fi network. When disabled, the
	SSID will not be visible as an available Wi-Fi
	network to clients – clients must manually
	enter the SSID in order to connect. A hidden
	(disabled) SSID is typically more secure than a
	visible (enabled) SSID.



Wireless Client	Enable or disable wireless client isolation.
Isolation	Wireless client isolation prevents clients
	connected to the access point from
	communicating with each other and improves
	security. Typically, this function is useful for
	corporate environments or public hot spots
	and can prevent brute force attacks on clients'
	usernames and passwords.
Load Balancing	Load balancing limits the number of wireless
	clients connected to an SSID. Set a load
	balancing value (maximum 50).
Authentication	Select an authentication method from the drop
Method	down menu and refer to the information
	below appropriate for your method.
Additional	Select an additional authentication method
Authentication	from the drop down menu and refer to the
	information below appropriate for your
	method.

Please refer back to **IV-3-1-3. Security** for more information on authentication and additional authentication types.



IV-3-4-4. WDS

WDS

Wireless Distribution System (WDS) can bridge/repeat access points together in an extended network. WDS settings can be

configured as shown below.

When using WDS, configure the IP address of each access point to be in the same subnet and ensure there is only one active DHCP server among connected access points, preferably on the WAN side.

WDS must be configured on each access point, using correct MAC addresses. All access points should use the same wireless channel and encryption method.

5GHz WDS Mode	
WDS Functionality Local MAC Address	Disabled Disabled WDS with AP Dedicated WDS
WDS Peer Settings	
WDS #1	MAC Address
WDS #2	MAC Address
WDS #3	MAC Address
WDS #4	MAC Address
WDS VLAN	
VLAN Mode	Untagged Port 💌 (Enter at least one MAC address.)
VLAN ID	1

Encryption method		
Encryption	None 👻 (Enter at least one MAC address.)	



5GHz WDS Mode		
WDS Functionality	Select "WDS with AP" to use WDS with access point or "WDS Dedicated Mode" to use WDS and also block communication with regular wireless clients. When WDS is used, each access point should be configured with corresponding MAC addresses, wireless channel and wireless encryption method.	
Local MAC Address	Displays the MAC address of your access point.	

WDS Peer Settings	
WDS #	Enter the MAC address for up to four other
	WDA devices you wish to connect.

WDS VLAN	
VLAN Mode	Specify the WDS VLAN mode to "Untagged
	Port" or "Tagged Port".
VLAN ID	Specify the WDS VLAN ID when "Untagged
	Port" is selected above.

WDS Encryption	
Encryption	Select whether to use "None" or "AES" encryption and enter a pre-shared key for AES with 8-63 alphanumeric characters.



IV-3-5. WPS

WPS

Wi-Fi Protected Setup is a simple way to establish connections between WPS

compatible devices. WPS can be activated on compatible devices by pushing a WPS button on the device or from within the device's firmware/configuration interface (known as PBC or "Push Button Configuration"). When WPS is activated in the correct manner and at the correct time for two compatible devices, they will automatically connect. "PIN code WPS" is a variation of PBC which includes the additional use of a PIN code between the two devices for verification.

Please refer to manufacturer's instructions for your other WPS device.

WPS	Enable
Apply	
WPS	
Product PIN	58327142 Generate PIN
Push-button WPS	Start
WPS by PIN	Start

WPS Security		
WPS Status	Not Configured Release	



Wireless 2.4GHz		
SSID	EDIMAX-75EFA8_G	
Security	WPA/WPA2-PSK TKIP/AES Mixed Mode	
Encryption		

1	Wireless 5GHz		
	SSID	EDIMAX-75EFA8_A	
	Security	WPA/WPA2-PSK TKIP/AES Mixed Mode	
	Encryption		

WPS	Check/uncheck this box to enable/disable WPS functionality. WPS must be disabled when
	using MAC-RADIUS authentication (see IV-3-1-3-6 & IV-3-4).

WPS	
Product PIN	Displays the WPS PIN code of the device, used for PIN code WPS. You will be required to enter this PIN code into another WPS device for PIN code WPS. Click "Generate PIN" to generate a new WPS PIN code.
Push-Button WPS	Click "Start" to activate WPS on the access point for approximately 2 minutes. This has the same effect as physically pushing the access point's WPS button.
WPS by PIN	Enter the PIN code of another WPS device and click "Start" to attempt to establish a WPS connection for approximately 2 minutes.

WPS Security	
WPS Status	WPS security status is displayed here. Click "Release" to clear the existing status.

Wireless 2.4GHz/5GHz		
SSID	Displays the SSID name(s) for the specified	
	frequency.	
Security	Displays the security for the specified SSID.	
Encryption	Displays the encryption type for the specified	
	SSID. See IV-3. Wireless Settings	



IV-3-6. RADIUS

RADIUS

The RADIUS menu allows you to configure the access point's external RADIUS server settings.

A RADIUS server provides user-based authentication to improve security and offer wireless client control – users can be authenticated before gaining access to a network.

The access point can utilize both a primary and secondary (backup) external RADIUS server for each of its wireless frequencies (2.4GHz & 5GHz)..



To use RADIUS servers, go to "Wireless Settings" → "Security" **and select** "MAC RADIUS Authentication" → "Additional Authentication" **and select** "MAC RADIUS Authentication" **(see** IV-3-1-3. & IV-3-2-3**).**



IV-3-6-1. RADIUS Settings

Radius Settings

Configure the RADIUS server settings for 2.4GHz. Each frequency can use an internal or

external RADIUS server.

RADIUS Server (2.4GHz)			
Defense DADIUS General			
Primary RADIUS Server			
RADIUS Type	Internal V External		
RADIUS Server			
Authentication Port	1812		
Shared Secret			
Session Timeout	3600 second(s)		
Accounting	Enable Disable		
Accounting Port	1813		
DADING THE	Secondary RADIUS Server		
RADIUS Type	Internal External		
RADIUS Server			
Authentication Port	1812		
Shared Secret			
Session Timeout	3600 second(s)		
Accounting	Enable Disable		
Accounting Port	1813		

RADIUS Server (5GHz)

Primary RADIUS Server			
RADIUS Type	Internal External		
RADIUS Server			
Authentication Port	1812		
Shared Secret			
Session Timeout	3600 second(s)		
Accounting	Enable Obisable		
Accounting Port	1813		
Secondary RADIUS Server			
RADIUS Type	O Internal External		
RADIUS Server			
Authentication Port	1812		
Shared Secret			
Session Timeout	3600 second(s)		
Accounting	Enable Oisable		
Accounting Port	1813		



RADIUS Type	Select "Internal" to use the access point's built-in RADIUS server or "external" to use an external RADIUS server.
RADIUS Server	Enter the RADIUS server host IP address.
Authentication Port	Set the UDP port used in the authentication p rotocol of the RADIUS server.
Shared Secret	Enter a shared secret/password between 1 – 99 characters in length. This should match the "MAC-RADIUS" password used in IV-3-1-3-6 or IV-3-2-3 .
Session Timeout	Set a duration of session timeout in seconds between 0 – 86400.
Accounting	Enable or disable RADIUS accounting.
Accounting Port	When accounting is enabled (above), set the U DP port used in the accounting protocol of the RADIUS server.

IV-3-6-2. Internal Server

Internal Server

The access point features a built-in RADIUS server which can be configured as shown

below used when "Internal" is selected for "RADIUS Type" in the "Wireless Settings" \rightarrow "RADIUS" \rightarrow "RADIUS Settings" menu.



To use RADIUS servers, go to "Wireless Settings" → "Security" **and select** "MAC RADIUS Authentication" → "Additional Authentication" **and select** "MAC RADIUS Authentication" **(see** IV-3-1-3. & IV-3-2-3**).**


Internal Server

Internal Server	Enable	
EAP Internal Authentication	PEAP(MS-PEAP)	•
EAP Certificate File Format	PKCS#12(*.pfx/*.p12)	
EAP Certificate File	Upload	
Shared Secret		
Session-Timeout	3600	second(s)
Termination-Action	 Reauthenication (RADIUS-Request) Not-Reauthenication (Default) Not-Send 	

Internal Server	Check/uncheck to enable/disable the access
	point s internal RADIOS server.
EAP Internal	Select EAP internal authentication type from
Authentication	the drop down menu.
EAP Certificate File	Displays the EAP certificate file format:
Format	PCK#12(*.pfx/*.p12)
EAP Certificate File	Click "Upload" to open a new window and select the location of an EAP certificate file to use. If no certificate file is uploaded, the internal RADIUS server will use a self-made certificate.
Shared Secret	Enter a shared secret/password for use between the internal RADIUS server and RADIUS client. The shared secret should be 1 – 99 characters in length. This should match the "MAC-RADIUS" password used in IV-3-1-3-6 or IV-3-2-3 .
Session Timeout	Set a duration of session timeout in seconds between 0 – 86400.
Termination Action	Select a termination-action attribute: "Reauthentication" sends a RADIUS request to the access point, "Not-Reathentication" sends a default termination-action attribute to the access point, "Not-Send" no termination-action attribute is sent to the access point.



IV-3-6-3. RADIUS Accounts

Radius Accounts

Password

The internal RADIUS server can authenticate up to 256 user accounts. The "RADIUS

Accounts" page allows you to configure and manage users.

Radius Accounts	
User Name	
Example: EDIMAX-USER1, EDIMAX-USER2, EDIMAX-USER3, EDIMAX-USER4	
Enter user name here	*
	Ŧ
Add Reset	

User Registration List			
Select	User Name	Password	Customize
	EDIMAX	Not Configured	Edit
Delete Selected elete All			
Edit User Registration List			
User Name	ED	IMAX (4	-16characters)

(6-32characters)



User Name	Enter the user names here, separated by
	commas.
Add	Click "Add" to add the user to the user registration list.
Reset	Clear text from the user name box.

Select	Check the box to select a user.
User Name	Displays the user name.
Password	Displays if specified user name has a password (configured) or not (not configured).
Customize	Click "Edit" to open a new field to set/edit a password for the specified user name (below).

Delete Selected	Delete selected user from the user registration list.
Delete All	Delete all users from the user registration list.

Edit User Registration List

User Name	Existing user name is displayed here and can be edited according to your preference.
Password	Enter or edit a password for the specified user.



IV-3-7. MAC Filter

MAC Filter

Mac filtering is a security feature that can help to prevent unauthorized users from

connecting to your access point.

This function allows you to define a list of network devices permitted to connect to the access point. Devices are each identified by their unique MAC address. If a device which is not on the list of permitted MAC addresses attempts to connect to the access point, it will be denied.

To enable MAC filtering, go to "Wireless Settings" \rightarrow "2.4G Hz 11bgn" \rightarrow "Security" \rightarrow "Additional Authentication" and select "MAC Filter" (see IV-3-1-3).

The MAC address filtering table is displayed below:

Add MAC Addresses		
		~
		~
		·
Add Reset		
MAC Address Filtering	Table	
Select	MAC Address	
	FC:F8:AE:43:43:7E	

Delete Selected Delete All Export

Add MAC Address	Enter a MAC address of computer or network
	device manually e.g. 'aa-bb-cc-dd-ee-ff' or
	enter multiple MAC addresses separated with



	commas, e.g. 'aa-bb-cc-dd-ee-ff,aa-bb-cc-dd-ee-gg'
Add	Click "Add" to add the MAC address to the MAC address filtering table.
Reset	Clear all fields.

MAC address entries will be listed in the "MAC Address Filtering Table". Select an entry using the "Select" checkbox.

	I I I I I I I I I I I I I I I I I I I
Select	Delete selected or all entries from the table.
MAC Address	The MAC address is listed here.
Delete Selected	Delete the selected MAC address from the
	list.
Delete All	Delete all entries from the MAC address
	filtering table.
Export	Click "Export" to save a copy of the MAC
	filtering table. A new window will pop up for
	you to select a location to save the file.



IV-3-8. WMM



Wi-Fi Multimedia (WMM) is a Wi-Fi Alliance interoperability certification based on the IEEE 802.11e standard, which provides

Quality of Service (QoS) features to IEE 802.11 networks. WMM prioritizes traffic according to four categories: background, best effort, video and voice.

M-EDCA Setting	gs			
	WMM Para	meters of Acces	s Point	
	CWMin	CWMax	AIFSN	TxOP
Back Ground	4	10	7	0
Best Effort	4	6	3	0
Video	3	4	1	94
Voice	2	3	1	47
	WMM Pa	arameters of Stat	tion	
	CWMin	CWMax	AIFSN	TxOP
Back Ground	4	10	7	0
Best Effort	4	10	3	0
Video	3	4	2	94
Voice	2	3	2	47

Configuring WMM consists of adjusting parameters on queues for different categories of wireless traffic. Traffic is sent to the following queues:

Background	Low	High throughput, non time sensitive bulk
	Priority	data e.g. FTP
Best Effort	Medium	Traditional IP data, medium throughput and
	Priority	delay.
Video	High	Time sensitive video data with minimum
	Priority	time delay.
Voice	High	Time sensitive data such as VoIP and
	Priority	streaming media with minimum time delay.

Queues automatically provide minimum transmission delays for video, voice, multimedia and critical applications. The values can further be adjusted manually:



CWMin	Minimum Contention Window (milliseconds): This value is input to the initial random backoff wait time algorithm for retry of a data frame transmission. The backoff wait time will be generated between 0 and this value. If the frame is not sent, the random backoff value is doubled until the value reaches the number defined by CWMax (below). The CWMin value must be lower than the CWMax value. The contention window scheme helps to avoid frame collisions and determine priority of frame transmission. A shorter window has a higher probability (priority) of transmission.
CWMax	Maximum Contention Window (milliseconds): This value is the upper limit to random backoff value doubling (see above).
AIFSN	Arbitration Inter-Frame Space (milliseconds): Specifies additional time between when a channel goes idle and the AP/client sends data frames. Traffic with a lower AIFSN value has a higher priority.
ТхОР	Transmission Opportunity (milliseconds): The maximum interval of time an AP/client can transmit. This makes channel access more efficiently prioritized. A value of 0 means only one frame per transmission. A greater value effects higher priority.



IV-9. Schedule

> Schedule

The schedule feature allows you to automate the wireless network for specified times.

Check/uncheck the box "Enable Wireless Schedule" to enable/disable the wireless scheduling function.



Sched	lule 🖉	Enable		
Apply	у			
Sche	dule List			
#	SSID	Day of Week	Time	Select
1	EDIMAX-75EFA8_G	Mon. Tue. Wed. Thu. Fri.	07:00-20:30	
		Add	Edit Delete Selected D	elete All

Wireless scheduling can save energy and increase the security of your network.

- **1.** Check **Enable** and use the **Select**, **Add**, **Edit** or **Delete** checkboxes to select and modify schedule(s).
- **2.** When you click **Add**, specify day(s), start time and end time for the schedule using the drop-down menus and click **Apply**.



Settings							
	2.4GHz SSID			5GHz SSID			
	EDIMAX-75EFA8_G			EDIMAX-75EFA8_A			8_A
Sun.	Mon.	Tue.	We	ed.	Thu.	Fri.	Sat.
	4			/	~	\$	
Start Time	07 🔻 : 00 🔻	End Time	20	•: 30	•		
		-					
						App	ly Cancel

3. Remember to **Apply** your changes and make sure **Enable** is checked.





IV-3-10. Traffic Shaping

Traffic Shaping

The traffic shaping function allows you to regulate network data transfer to ensure or

prioritize performance by limiting uplink and downlink speeds according to SSID.

Traffic Shaping for ssid(2.4GHz)				
Enable Unlimited : 0 Mbps				
Down Link/Up Link Maximum : 1024	Mbps			
SSID	Dowr	n Link	Up	Link
EDIMAX-75EFA8_G	0	Mbps	0	Mbps
EDIMAX-75EFA8_G_2	0	Mbps	0	Mbps
EDIMAX-75EFA8_G_3 Unlimited : 0 Mbps	0	Mbps	0	Mbps
Down Link/Up Link Maximum : 1024	Mbps			
SSID	Dowr	n Link	Up	Link
EDIMAX-75EFA8_A	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_2	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_3	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_4	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_5	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_6	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_7	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_8	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_9	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_10	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_11	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_12	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_13	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_14	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_15	0	Mbps	0	Mbps
EDIMAX-75EFA8_A_16	0	Mbps	0	Mbps

Enable Unlimited: 0	Check/uncheck to enable or disable unlimited
Mbps	transfer speed.
Downlink/Uplink	Specify the maximum down/uplink capacity in



Maximum	Mbps.
Downlink	Enter a downlink limit in MB for the listed SSID.
Uplink	Enter an uplink limit in MB for the listed SSID.



IV-4. Management

Information Network Settings Wireless Settings Management Advanced Operation Mode

Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-4-1. Admin

Admin

You can change the password used to login to the browser-based configuration interface here.

It is advised to do so for security purposes.



If you change the administrator password, please make a note of the new password. In the event that you forget this password and are unable to login to the browser based configuration interface, see I-5. Reset for how to reset the access point.



Account to Manage This Device

Administrator Name	admin	
Administrator Password	•••••	(4-32Characters)
	•••••	(Confirm)

Advanced Settings

Product Name	AP801F0	275EFA8
HTTP Port	80	(80, 1024-65535)
HTTPS Port	443	(443, 1024-65535)
Management Protocol	HTTP HTTPS HTTPS TELNE SSH SNMP	T
SNMP Version	v1/v2c	
SNMP Get Community	public	
SNMP Set Community	private	
SNMP Trap	Disabled	•
SNMP Trap Community	public	
SNMP Trap Manager		

Account to Manage T	his Device
Administrator	Set the access point's administrator name.
Name	This is used to log in to the browser based
	configuration interface and must be between
	4-16 alphanumeric characters (case sensitive).
Administrator	Set the access point's administrator password.
Password	This is used to log in to the browser based
	configuration interface and must be between
	4-32 alphanumeric characters (case sensitive).

Advanced Settings



Product Name	Edit the product name according to your
	preference consisting of 1-32 alphanumeric
	characters. This name is used for reference
	purposes.
HTTP Port	Specify HTTP port number.
HTTPS Port	Specify HTTPS port number.
Management	Check/uncheck the boxes to enable/disable
Protocol	specified management interfaces (see below).
	When SNMP is enabled, complete the SNMP
	fields below.
SNMP Version	Select SNMP version appropriate for your
	SNMP manager.
SNMP Get	Enter an SNMP Get Community name for
Community	verification with the SNMP manager for
	SNMP-GET requests.
SNMP Set	Enter an SNMP Set Community name for
Community	verification with the SNMP manager for
	SNMP-SET requests.
SNMP Trap	Enable or disable SNMP Trap to notify SNMP
	manager of network errors.
SNMP Trap	Enter an SNMP Trap Community name for
Community	verification with the SNMP manager for
	SNMP-TRAP requests.
SNMP Trap	Specify the IP address or sever name (2-128
Manager	alphanumeric characters) of the SNMP
	manager.

HTTP

Internet browser HTTP protocol management interface

TELNET

Client terminal with telnet protocol management interface

SNMP

Simple Network Management Protocol. SNMPv1, v2 & v3 protocol supported. SNMPv2 can be used with community based authentication. SNMPv3 uses user-based security model (USM) architecture.



IV-4-2. Date and Time



You can configure the time zone settings of your access point here. The date and time of the

device can be configured manually or can be synchronized with a time server.

Date and Time Settings		
Local Time	2012 Vear Jan Vonth 1 Day	
0 Hours 00 Kinutes 00 Seconds		
NTP Time Server		
Use NTP	Enable	
Server Name		
Update Interval	24 (Hours)	

Time Zone		
Time Zone	(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London	•

Date and Time Settings	
Local Time	Set the access point's date and time manually
	using the drop down menus.
Acquire Current	Click "Acquire Current Time from Your PC" to
Time from your PC	enter the required values automatically
	according to your computer's current time and
	date.

NTP Time Server	
Use NTP	The access point also supports NTP (Network Time Protocol) for automatic time and date setup.



Server Name	Enter the host name or IP address of the time server if you wish.
Update Interval	Specify a frequency (in hours) for the access point to update/synchronize with the NTP server.

Time Zone	
Time Zone	Select the time zone of your country/ region. If
	your country/region is not listed, please select another country/region whose time zone is the
	same as yours.



IV-4-3. Syslog Server



The system log can be sent to a server or to attached USB storage.

Syslog Server Settings	
Transfer Logs	Enable Syslog Server
Copy Logs to Attached USB Devi	ice Enable
Syslog E-mail Settings	
E-mail Logs	
E-mail Subject	
E-mail Subject SMTP Server Address	
E-mail Subject SMTP Server Address SMTP Server Port	
E-mail Subject SMTP Server Address SMTP Server Port Sender E-mail	
E-mail Subject SMTP Server Address SMTP Server Port Sender E-mail Receiver E-mail	

Syslog Server Settings	
Transfer Logs	Check/uncheck the box to enable/disable the use of a syslog server, and enter a host name, domain or IP address for the server, consisting of up to 128 alphanumeric characters.
Copy Logs to Attached USB Device	Check/uncheck the box to enable/disable copying logs to attached USB storage.

Syslog E-mail Settings	
E-mail Logs	Check the box to enable/disable e-mail logs.
E-mail Subject	Specify the subject line of log emails.
SMTP Server	Specify the SMTP server address used to send
Address	log emails.
SMTP Server Port	Specify the SMTP server port used to send log
	emails.
Sender E-mail	Specify the sender email address.
Receiver E-mail	Specify the email to receive log emails.



Authentication	Disable or select authentication type: SSL or TLS.
	When using SSL or TLS, enter the username and
	password.

IV-4-4. Ping Test

Ping Test

The access point includes a built-in ping test function. Ping is a computer network administration utility used to test

whether a particular host is reachable across an IP network and to measure the round-trip time for sent messages.

Ping Test	
Destination Address	Evacuta
Desunation Address	LXecute
Result	

Destination Address	Enter the address of the host.
Execute	Click execute to ping the host.



IV-4-5. I'm Here

I'm Here

The access point features a built-in buzzer which can sound on command using the "I'm

Here" page. This is useful for network administrators and engineers working in complex network environments to locate the access point.

Duration of Sound		
Duration of Sound	10	(1-300 seconds)
		Sound Buzzer
	<u> A</u> The bu	ızzer is loud!
Duration of Sound	Set the d sound wh clicked.	uration for which the buzzer will nen the "Sound Buzzer" button is
Sound Buzzer	Activate	the buzzer sound for the above

specified duration of time.



IV-5. Advanced

Information Network Settings Wireless Settings Management Advanced Operation Mode

Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-5-1. LED Settings

> LED Settings

The access point's LEDs can be manually enabled or disabled according to your

preference.

LED Settings		
Wireless LED	🖲 On 🔘 Off	
Diag LED	🖲 On 🔍 Off	

Power/Diag LED	Select on or off.



IV-5-2. Update Firmware



The "Firmware" page allows you to update the system firmware to a more recent version. Updated firmware versions often

offer increased performance and security, as well as bug fixes. You can download the latest firmware from the Edimax website.

Firmware Location	
Update firmware from	 a file on your PC a file on an attached USB device (No USB device connected.)
Update Firmware from PC	
Firmware Update File	Choose File No file chosen
Update	



Do not switch off or disconnect the access point during a firmware upgrade, as this could damage the device.

Update Firmware	Select "a file on your PC" to upload firmware
From	from your local computer or from an
	attached USB device.
Firmware Update File	Click "Choose File" to open a new window to
	locate and select the firmware file in your
	computer.
Update	Click "Update" to upload the specified
	firmware file to your access point.



IV-5-3. Save/Restore Settings

Save/Restore Settings

The access point's "Save/Restore Settings" page enables you to save/backup the access

point's current settings as a file to your local computer or a USB device attached to the access point, and restore the access point to previously saved settings.

Save/Restore Method	
Using Device	Using your PC Using your USB device (No USB device connected.)
Save Settings to PC	
Save Settings	Encrypt the configuration file with a password.
Save	
Restore Settings from PC	
Restore Settings	Choose File No file chosen Open file with password.
Restore	

Save / Restore Settings	
Using Device	Select "Using your PC" to save the access point's settings to your local computer or to an attached USB device.

Save Settings to PC	
Save Settings	Click "Save" to save settings and a new window will open to specify a location to save the settings file. You can also check the "Encrypt the configuration file with a password" box and enter a password to
	protect the file in the field underneath, if you wish.

Restore Settings from PC	
Restore Settings	Click the browse button to find a previously saved settings file on your computer, then click "Restore" to replace your current settings. If your settings file is encrypted with



a password, check the "Open file with
password" box and enter the password in
the field underneath.



IV-5-4. Factory Default

Factory Default

If the access point malfunctions or is not responding, then it is recommended that you

reboot the device (see **IV-5.5**) or reset the device back to its factory default settings. You can reset the access point back to its default settings using this feature if the location of the access point is not convenient to access the reset button.

This will restore all settings to factory defaults.

Factory Default

Factory Default	Click "Factory Default" to restore settings to the factory default. A pop-up window will
	appear and ask you to confirm.



After resetting to factory defaults, please wait for the access point to reset and restart.



IV-5-5. Reboot

Reboot

If the access point malfunctions or is not responding, then it is recommended that

you reboot the device or reset the access point back to its factory default settings (see **IV-5-4**). You can reboot the access point remotely using this feature.

This will reboot the product. Your settings will not be changed. Click "Reboot" to reboot the product now.

Reboot

Reboot	Click "Reboot" to reboot the device. A
	reboot.



Information Network Settings Wireless Settings Management Advanced Operation Mode

Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

The access point can function in three different modes. Set the operation mode of the access point here.

Your access point can function in three different modes.

The default mode for your access point is **AP mode**.

AP mode is a regular access point for use in your wireless network.

Managed AP mode acts as a "slave" AP within the AP array (controlled by the AP Controller "master").

In **Repeater mode** the access point connects wirelessly to your existing 2.4GHz and/or 5GHz network and repeats the wireless signal(s).



In Managed AP mode some functions of the access point will be disabled in this user interface and must be set using Edimax Pro NMS on the AP Controller.

Operation Mode		
Operation Mode	AP Mode 🔻	
	AP Mode	
	Repeater Mode	
Wireless Mode	Managed AP mode	
2.4GHz Mode	Access Point	
5GHz Mode	Access Point	

Operation Mode	AP Mode is a standard access point in a
	wireless network.

AP Controller Mode is the master of an AP array and controls all other managed APs (below) using Edimax Pro NMS.

Managed AP mode is an AP which is part of the AP array and is managed by the Controller AP.



When you set the operation mode to repeater mode, the AP will not get an IP address from the router/root AP. You will need to set your computer's IP address and use the APs default IP address to access the UI for the first time, refer to Appendix for more help.



V. Appendix

Configuring your IP address V-1.

The access point uses the default IP address **192.168.2.2**. In order to access the browser based configuration interface, you need to modify the IP address of your computer to be in the same IP address subnet e.g. 192.168.2.x (x = 3 -254).

The procedure for modifying your IP address varies across different operating systems; please follow the guide appropriate for your operating system.

In the following examples we use the IP address **192.168.2.10** though you can use any IP address in the range 192.168.2.x (x = 3 - 254).



If you changed the AP Controller's IP address, or if your 🛃 gateway/router uses a DHCP server, ensure you enter the correct *IP address. Refer to your gateway/router's settings. Your* computer's IP address must be in the same subnet as the AP Controller.



If using a DHCP server on the network, it is advised to use your DHCP server's settings to assign the AP Controller a static IP address.



V-1-1. Windows XP

1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel". Double-click the "Network and Internet Connections" icon, click "Network Connections", and then double-click "Local Area Connection". The "Local Area Connection Status" window will then appear, click "Properties".

🕹 Local Area Connection Properties 🛛 🔹 💽
General Authentication Advanced
Connect using:
AMD PCNET Family PCI Ethernet Ad
This connection uses the following items:
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks Secondacket Scheduler Internet Protocol (TCP/IP)
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

2. Select "Use the following IP address", then input the following values:

IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



Internet Protocol (TCP/IP) Prope	rties 🛛 🛛 🔀
General	
You can get IP settings assigned autom this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports ask your network administrator for
Obtain an IP address automatically	y
IP address:	192.168.2.10
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	
Obtain DNS server address autom	natically
Ouse the following DNS server add Output	resses:
Preferred DNS server:	· · ·
<u>A</u> lternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel



V-1-2. Windows Vista

1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel". Click "View Network Status and Tasks", then click "Manage Network Connections". Right-click "Local Area Network", then select "Properties". The "Local Area Connection Properties" window will then appear, select "Internet Protocol Version 4 (TCP / IPv4)", and then click "Properties".

Intel(R) PRO/1	000 MT Network Conne	ection
		Configure
his connection uses	the following items:	
Client for Mic	rosoft Networks	
QoS Packet	Scheduler	
File and Print	ter Sharing for Microsoft	Networks
		Concession of the second se
	ocol Version o (TCF/4P	(F)
 Internet Prot Internet Prot 	ocol Version & (TCP/IP) ocol Version 4 (TCP/IP)	(4)
A Internet Prote A Internet Prote A Internet Prote A Internet Prote	ocol Version o (TCF/IP) ocol Version 4 (TCP/IP) onology Discovers Map	(4) per 1/0 Driver
 ✓ Internet Prot ✓ Internet Prot ✓ Sink Layer T ✓ Link-Layer T 	ocol version o (TCP/ID) ocol Version 4 (TCP/IP) opology Discovery Resp opology Discovery Resp	4) per I/O Driver conder
 ✓ Internet Prot ✓ Internet Prot ✓ Unit Layer T ✓ Link-Layer T 	ocol version o (TCP/IP) ocol Version 4 (TCP/IP) opology Discovery Map opology Discovery Resp	4) per 1/0 Driver bonder
 ✓ Internet Prot ✓ Internet Prot ✓ Sink Layer T ✓ Link-Layer T Install 	ocol Version & TCP/IP ocol Version 4 (TCP/IP opology Discovery Map opology Discovery Resp Uninstall	6) per I/O Driver ponder Properties
 ✓ Internet Prot ✓ Internet Prot ✓ Link-Layer T ✓ Install 	ocol Version & (TCP/IP) ocol Version 4 (TCP/IP) opology Discovery Map opology Discovery Resp Uninstall	en per I/O Driver ponder Properties
 Internet Prot Internet Prot Internet Prot Internet Prot Internet Prot Install Description Transmission Contr 	ocol Version & (TCP/IP) ocol Version 4 (TCP/IP) opology Discovery Map opology Discovery Resp Uninstall	en I/O Driver per I/O Driver ponder Properties ocol. The default
 Internet Prot Internet Prot Link-Layer T Link-Layer T Install Description Transmission Contr wide area network 	ocol Version & (TCP/IP) ocol Version 4 (TCP/IP) opology Discovery Map Uninstall Uninstall ol Protocol/Internet Prot protocol that provides c	Properties

2. Select "Use the following IP address", then input the following values:

IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



(ou can get IP settings assigned his capability. Otherwise, you ne	automatically if your network supports eed to ask your network administrator
for the appropriate IP settings.	
Obtain an IP address acted	atically
Use the following IP address	s:
IP address.	192.168.2.10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	k and k
Obtain DNS server address	automatically
O Use the following DNS server	er addresses:
Preferred DNS server:	
Alternate DNS server:	Grab selected Region
	Advanced



V-1-3. Windows 7

1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel".



2. Under "Network and Internet" click "View network status and tasks".



3. Click "Local Area Connection".



View your basic network info	rmation and se	et up connectio	ons	
I	-	— ×	Q	See full map
TS-WIN7 (This computer)	Home network		Internet	
View your active networks				Connect or disconnect
Home network Home network		Access type: HomeGroup: Connection:	No Intern Paudy to Local Area	et access create a Connection

4. Click "Properties".

Local Area Connection Status	×
General	
Connection	
IPv4 Connectivity:	No Internet access
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	02:08:52
Speed:	100.0 Mbps
Details	
Activity	
Sent —	- Received
Bytes: 951,33	2 4,398,184
Properties Disable	Diagnose
	Close



5.Select "Internet Protocol Version 4 (TCP/IPv4) and then click "Properties".



6. Select "Use the following IP address", then input the following values:

IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



omatically if your network supports to ask your network administrator
ally
192.168.2.10
255 . 255 . 255 . 0
1 4 4 5 G
omatically
ldresses:
Grab selected Region
Advanced


V-1-4. Windows 8

1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.





3. Right click "Network" and then select "Properties".

👫 🛃 👔 🕈 I	Network	- 🗆 🗾
File Network View		~
	✓ C Search Network	,
Network discovery and file sharing are turned off. Network comp	puters and devices are not visible. Click to change	
▲ 🔆 Favorites	This folder is empty.	
E Desktop		
🚺 Downloads		
归 Recent places		
4 📴 Libraries		
Documents		
Music		
Pictures		
Videos		
Open in new window Pin to Start Map network drive Disconnect network drive		
Delete		
Properties		
0 items		8=
		2:53

4. In the window that opens, select "Change adapter settings" from the left side.





5. Choose your connection and right click, then select "Properties".



6. Select "Internet Protocol Version 4 (TCP/IPv4) and then click "Properties".





7. Select "Use the following IP address", then input the following values:

IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



V-1-5. Mac

1. Have your Macintosh computer operate as usual, and click on "System Preferences"



2. In System Preferences, click on "Network".



3. Click on "Ethernet" in the left panel.

ſ	0 0	Network	1
	▲ ► Show All		Q
		Location: Location (5/2/13	2:54 PM) \$
	Ethernet Connected FireWire Not Connected	Status:	Connected Ethernet is currently active and has the IP address 169.254.75.4.
	e Wi-Fi	Configure IPv4:	Using DHCP
		IP Address:	169.254.75.4
		Subnet Mask:	255.255.0.0
		Router:	
		DNS Server:	
		Search Domains:	
	+ - **		Advanced ?
	Click the lock to prev	ent further changes.	Assist me Revert Apply

4. Open the drop-down menu labeled "Configure IPv4" and select "Manually".



00	Network	
Show All		Q
Loc	cation: Location (5/2/13 2:5	4 PM) 🛟
Ethernet Image: Connected FireWire Image: Connected Not Connected Image: Connected Wi-Fi Image: Connected Off Image: Connected	Status: Co Eth add Configure IPv4 ✓ Us IP Address U Subnet Masi Router DNS Server Cr Search Domains:	nnected ernet is currently active and has the IP fress 169.254.75.4. sin: DHCP sing DHCP with manual address in: RootP anually ff reate PPPoE Service
+ - * -		Advanced ?
Click the lock to prevent	t further changes.	Assist me Revert Apply

5. Enter the IP address 192.168.2.10 and subnet mask 255.255.255.0. Click on "Apply" to save the changes.

0 0	Netw	ork
Show All]	Q
	Location: Location (5/2)	(13 2:54 PM) ‡
Ethernet Connected FireWire Not Connected	Stat	us: Connected Ethernet is currently active and has the IP address 169.254.75.4.
• Wi-Fi Off	Configure IP IP Addre Subnet Ma DNS Serv Search Domai	v4: Manually \$ ss: 192.168.2.10 sk: 255.255.0.0 sc: er: ns:
+ - * *		Advanced ?
Click the lock to	prevent further changes.	Assist me Revert Apply





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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 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:

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

FCC Caution

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.

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

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

RED Compliance Statement

Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on

the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. Transmit Power (dBm)
2412-2472	18.80 dBm
5500-5700	28.75 dBm

A simplified DoC shall be provided as follows: Article 10(9)

Hereby, Edimax Technology Co., Ltd. declares that the radio equipment type 11ac Dual Band

Concurrent Outdoor AP is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet

address: http://www.edimax.com/edimax/global/

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use



None

EU Declaration of Conformity

English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/35/EU.
Français:	Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/53/EU, 2014/35/EU.
Čeština:	Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/53/EU, 2014/35/EU.
Polski:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/53/EU, 2014/35/EU.
Română:	Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/53/UE, 2014/35/UE.
Русский:	Это оборудование соответствует основным требованиям и положениям Директивы 2014/53/EU, 2014/35/EU.
Magyar:	Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/53/EU, 2014/35/EU).
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Українська: Slovenčina:	Обладнання відповідає вимогам і умовам директиви 2014/53/EU, 2014/35/EU. Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/53/EU, 2014/35/EU.
Deutsch: Español:	Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/53/EU, 2014/35/EU. El presente equipo cumple los requisitos esenciales de la Directiva 2014/53/EU, 2014/35/EU.
Italiano:	Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/53/EU, 2014/35/UE.
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Svenska:	Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/53/EU, 2014/35/EU.
Dansk:	Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2014/53/EU, 2014/35/EU.
suomen kiel	i: Tämä laite täyttää direktiivien 2014/53/EU, 2014/35/EU. oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN AT BE CY CZ OK EE (H) (R DE GR HU (E) (T) (V) (T) (U) (MT) (N) (P) (PT) (SK (S) (E) (SE (GB (S) (U) (N) (C) (BG (R) (R) (TR) (UA)



WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Radio Equipment directives.

Equipment: 11ac Dual Band Concurrent Outdoor AP Model No.: OAP1750

The following European standards for essential requirements have been followed:

Directives 2014/53/EU

Spectrum	: EN 300 328 V2.1.1 (2016-11)
	EN 301 893 V2.1.1 (2017-05)
EMC	: Draft EN 301 489-1 V2.2.0 (2017-03), Class B
	Draft EN 301 489-17 V3.2.0 (2017-03)
EMF	: EN 62311:2008
Safety (LVD)	: IEC 62368-1:2014 (2 nd Edition) and/or EN 62368-1:2014+A11:2017

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	Title:	Director
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