

WL-5450AP & WL-5460AP

Wireless Access Point

User's Guide



Powered by OvisLink Corp.

FCC Certifications

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

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

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC RF 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 20cm between the radiator and your body.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

All trademarks and brand names are the property of their respective proprietors.

Specifications are subject to change without prior notification.

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INTRODUCTION

AirLive **WL-5450AP/WL-5460AP** is an IEEE802.11b/g compliant 11 Mbps & 54 Mbps Ethernet Wireless Access Point. The Wireless Access Point is equipped with two 10/100 M Auto-sensing Ethernet ports for connecting to LAN and also for cascading to next Wireless Access Point.

AirLive **WL-5450AP/WL-5460AP** provides 64/128bit WEP encryption, WPA and IEEE802.1x which ensures a high level of security to protect users' data and privacy. The MAC Address filter prevents the unauthorized MAC Addresses from accessing your Wireless LAN. Your network security is therefore double assured.

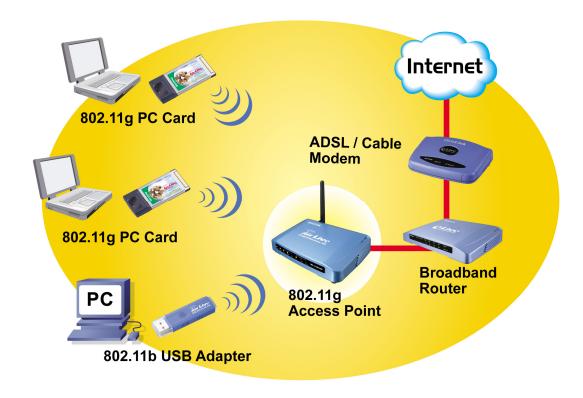
The web-based management utility is provided for easy configuration that your wireless network connection is ensured to be always solid and hassle free.

Features

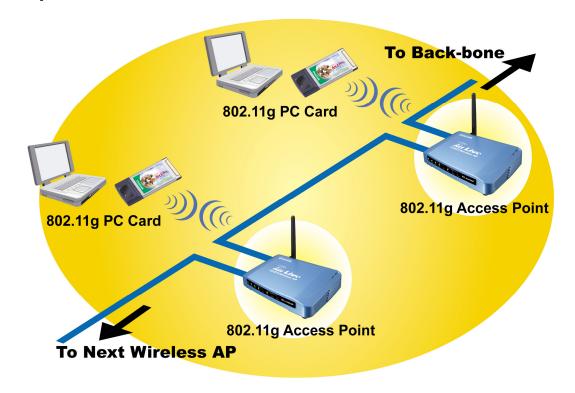
- 1. Two LAN ports for Wireless AP cascade.
- 2. Support WPA.
- 3. Support AP client mode.
- 4. Support WDS for bridge mode.
- 5. Support data rate automatic fallback.
- 6. Automatic channel selection.
- 7. Client access control.
- 8. Support 802.1x/Radius client with EAP-TLS, TKIP, AES encryption.
- 9. Support IAPP.
- 10. Adjustable Tx power, Tx rate, and SSID broadcast.
- 11. Allow WEP 64/128 bit.
- Web interface management.
- 12. Support System event log and statistics.
- 13. MAC filtering (For wireless only).

Application

Example 1

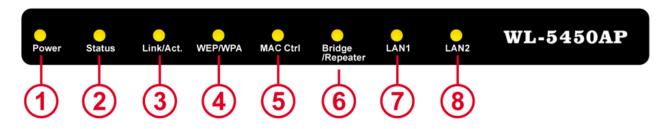


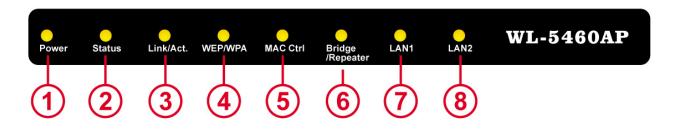
Example 2



Parts Names and Functions

1. Front Panel: (LED Indicators)





	LED		Status	
	Indicator	Color	Solid	Flashing
1	Power	Green	Turns solid green when power is	N/A.
			applied to this device.	
2	Status	Red	Turns solid red when the device is	
			booting, after boot successfully,	
			the light turn off.	
3~6	Link/Act.	Green	Turns solid green when connected	Receiving/
Wireless			and associated to at least a client	Sending data
			station.	
	WEP/WPA	Orange	Turns solid orange when wireless	N/A
			security is enabled.	
	MAC Ctrl	Orange	Turns solid orange when MAC	N/A
			Control is enabled.	
	Bridge /	Orange	Turn solid orange when Bridge or	N/A
	Repeater		Repeater is enabled.	
7	LAN 1	C	Turns solid green when linked to a	Receiving/
8	LAN 2	Green	local network.	Sending data
		1	1	L

Table 1: LED Indicators

2. Rear Panel: Connection Ports



	Port/button	Functions
Α	12V DC	Connects the power adapter plug
В	LAN1	Connects to Ethernet
С	LAN2	Connects to Ethernet
D	(Factory)	Press over 3 seconds to reboot this device.
	RESET	Press for over 10 seconds to restore factory settings.
		Performing the Factory Reset will erase all previously
		entered device settings.

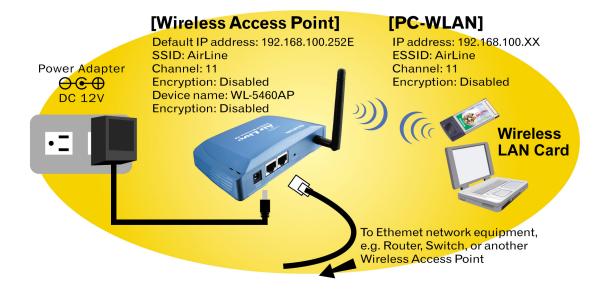
Table 2: Connection Ports

Factory Default Settings

Setting	Wireless Access Point
Device Name	
	WL-5460AP
SSID	Default value: airlive
Channel	11
WEP	Default value: Disabled
IP Address	192.168.100. 252

HARDWARE CONNECTION

Note: Before you starting hardware connection, you are advised to find an appropriate location to place the Access Point. Usually, the best place for the Access Point is at the center of your wireless network, with line of straight to all your wireless stations. Also, remember to adjust the antenna; usually the higher the antenna is placed, the better will be the performance.



- 1. **Connect to your local area network:** connect a **Ethernet cable** to one of the **Ethernet** port (LAN1 or LAN2) of this Wireless Access Point, and the other end to a hub, switch, router, or another wireless access point.
- 2. **Power on the device**: connect the included AC power adapter to the Wireless Access Point's power port and the other end to a wall outlet.

Check the LEDs:

The Power and **LAN** # LEDs should be ON. LAN# LED will even blink if there is traffic.

The *Link/Act* LED will be on in static when associated with a station and blink whenever this AP receives data packets in the air.

If the *Status* LED glows after self-test , it means this Wireless Access Point fails on self test. Please ask your dealer for technical support.

3. **Configure your PC:** Make sure your local PC(s) has wireless network adapter installed.

ABOUT THE OPERATION MODES

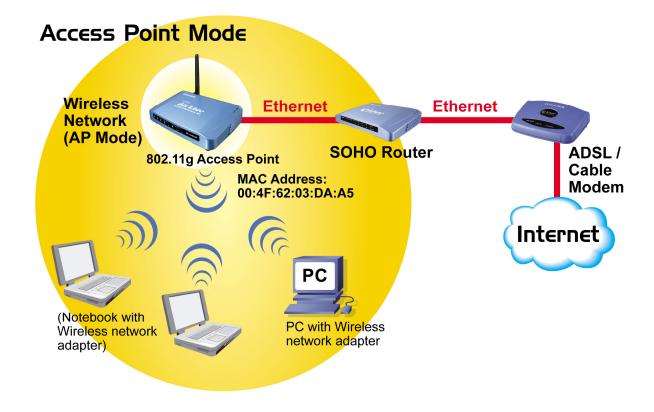
This device provides four operational applications with **Access Point**, **Bridge**, **Client (Ad-hoc) and Client (Infrastructure)** modes, which are mutually exclusive.

This device is shipped with configuration that is functional right out of the box. If you want to change the settings in order to perform more advanced configuration or even change the mode of operation, you can use the web-based utility provided by the manufacturer as described in the following sections.

Access Point Mode

When acting as an access point, this device connects all the stations (PC/notebook with wireless network adapter) to a wired network. All stations can have the Internet access if only the Access Point has the Internet connection. See the sample application below.

To set the operation mode to **Access Point**, please go to "**Wireless** →**Basic Settings"**, in the "**Mode**" field click the down arrow **→** to select AP mode.



WDS Repeater Mode

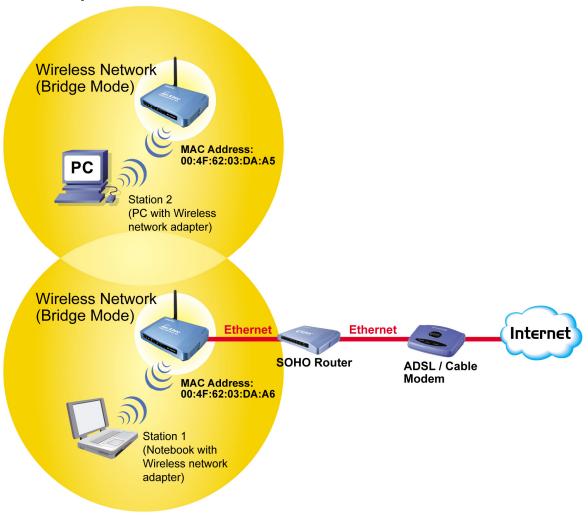
Refer to the illustration below. While acting as Bridges, AP1 (with Station 1 being associated to) and AP2 (with Station 2 being associated) can communicate with each other through wireless interface (with WDS). Thus Station 1 can communicate with Station 2 and both Station 1 and Station 2 are able to access the Internet if only AP1 or AP2 has the Internet connection.

To set the operation mode to **Bridge**, please go to "**Wireless** →**Basic Settings**", in the "**Mode**" field click the down arrow \checkmark to select **AP** mode. And go to "**Wireless** →**WDS Settings**" to enable **WDS**.

Note:

To act as Bridge, both AP1 and AP2 must have WDS enabled and add each other as its WDS Access Point. (e.g. Add AP2's MAC address to AP1's "WDS AP List" and vice versa)

WDS Repeater Mode



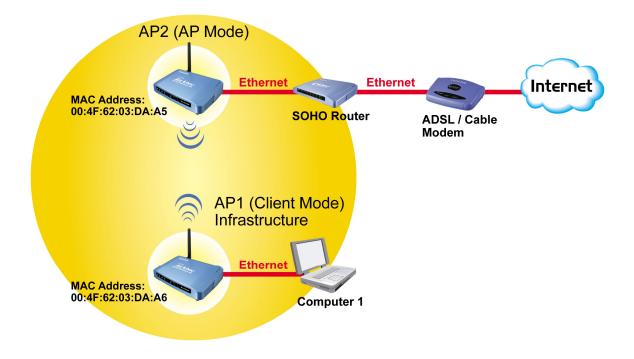
Client Mode (Infrastructure)

If set to Client (Infrastructure) mode, this device can work like a wireless station when it's connected to a computer so that the computer can send packets from wired end to wireless interface.

Refer to the illustration below. This station (AP1 plus the connected computer 1) can associate to another Access Point (AP2), and then can have the Internet access if the other Access Point (AP2) has the Internet connection.

To set the operation mode to **Client (Infrastructure)**, please go to "**Wireless** → **Basic Settings**", in the "**Mode**" field click the down arrow ▼ to select **Client** mode, and then select "**Network Type**" as "**Infrastructure**".

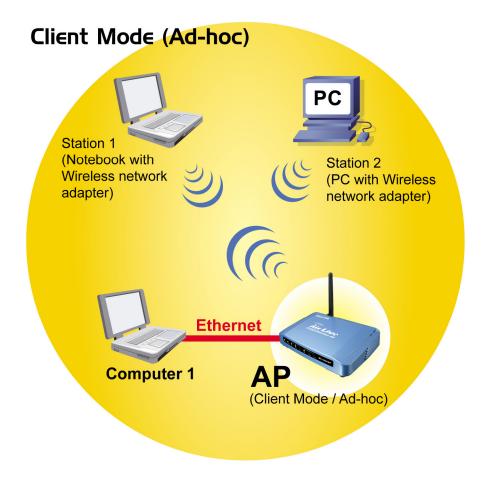
Client Mode (Infrastructure)



Client Mode (Ad-hoc)

If set to the Client (Ad-hoc) mode, this device can work like a wireless station when it is connected to a computer so that the computer can send packets from wired end to wireless interface. You can share files and printers between wireless stations (PC and laptop with wireless network adapter installed). See the sample application below.

To set the operation mode to **Client (Ad-hoc)**, please go to "**Wireless** →**Basic Settings**", in the "**Mode**" field click the down arrow \checkmark to select **Client** mode, and then select Network Type as "**Ad-hoc**".



WDS Bridge Mode

The WDS (Wireless Distributed System) function let this access point acts as a wireless LAN access point and repeater at the same time. Users can use this feature to build up a large wireless network in a large space like airports, hotels and schools ...etc. This feature is also useful when users want to bridge networks between buildings where it is impossible to deploy network cable connections between these buildings.

CONFIGURATION

Login

- 1. Start your computer. Connect an Ethernet cable between your computer and the Wireless Access Point.
- 2. Make sure your wired station is set to the same subnet as the Wireless Access Point, i.e. 192.168.100.252
- 3. Start your WEB browser. In the *Address* box, enter the following:

HTTP://192.168.100.252

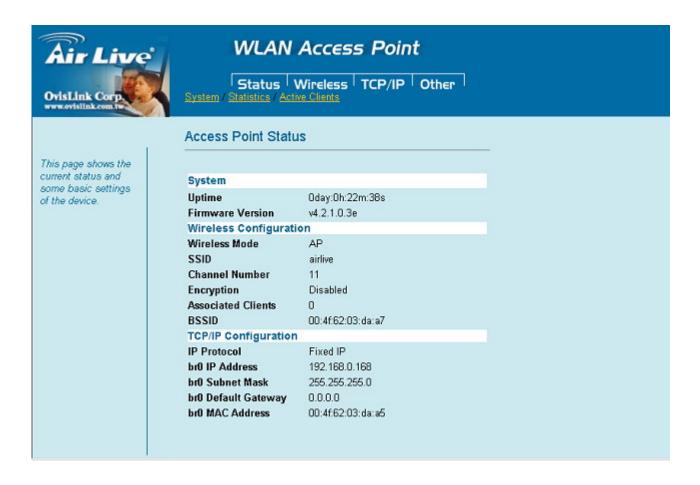


The configuration menu is divided into four categories: **Status, Wireless, TCP/IP,** and **Other settings**. Click on the desired setup item to expand the page in the main navigation page. The setup pages covered in this utility are described below.

Status

In this screen, you can see the current settings and status of this Access Point. You can change settings by selecting specific tab described in below.

System

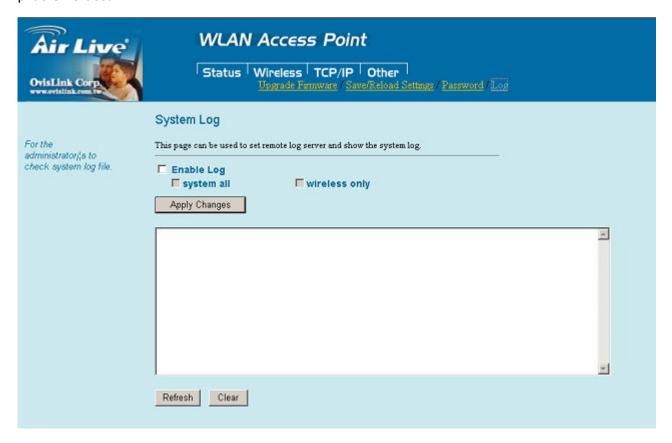


System	
Uptime	The time period since the device was up.
Firmware Version	The current version of the firmware installed in this device.
Wireless Configura	tion
Wireless Mode	There are four modes supported, Access Point, Client (Ad-hoc and
	Infrastructure), WDS Bridge and WDS repeater. The default mode is
	Access Point. If you want to change to bridge mode, please go to
	Wireless/WDS Setting to enable the WDS function.
SSID	The SSID differentiates one WLAN from another; therefore, all access
	points and all devices attempting to connect to a specific WLAN must use
	the same SSID. It is case-sensitive and must not exceed 32 characters. A
	device will not be permitted to join the BSS unless it can provide the

	unique SSID. An SSID is also referred to as a network name because
	essentially it is a name that identifies a wireless network.
Channel Number	The number of channels supported depends on the region of this Access
	Point. All stations communicating with the Access Point must use the
	same channel.
Encryption	WEP Encryption (Wired Equivalent Privacy) is set to Disabled by default.
	When WEP is enabled, data packet is encrypted
	before being transmitted. The WEP prevents data packets from being
	eavesdropped by unrelated people. By using WEP data encryption, there
	may be a significant degradation of the data throughput on the wireless
	link.
Associated Clients	Displays the total number of clients associated to this AP. You can have up
	to 64 clients to associate to this Access Point.
BSSID	BSSID displays the ID of current BSS, which uniquely identifies each
	BSS. In AP mode, this value is the MAC address of this Access Point.
TCP/IP Configuration	ion
IP Protocol	Display the method to get the IP of this AP, which could be obtained by
	Fixed-IP or DHCP-client.
br0 IP Address	Current IP address for this Access Point
br0 Subnet Mask	Current Subnet mask for this Access Point
br0 Default	Default Gateway for this Access Point
Gateway	
br0 MAC Address	The MAC Address for this Access Point
-	

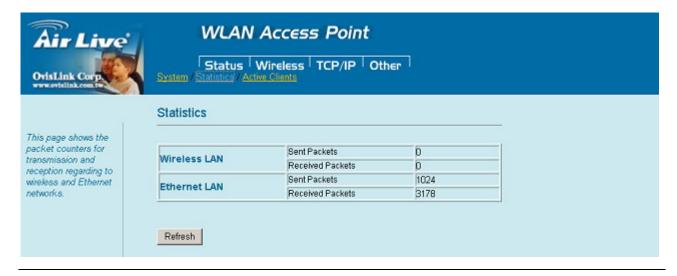
System Log

This page display log events with time when events happened, log events' types, log sources and the description for events themselves. System manager can use the system log to trace when problems occur.



Statistics

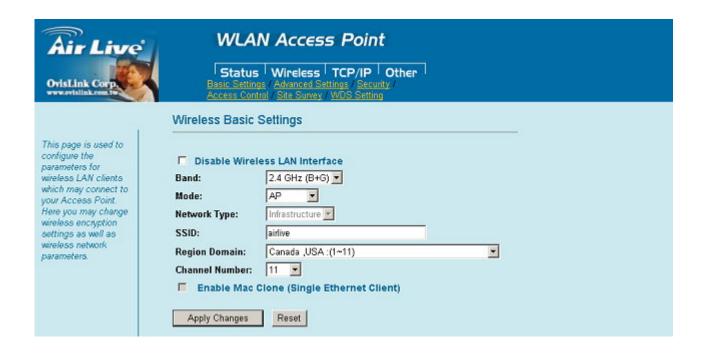
The Statistics table shows the packets sent/received over wireless and ethernet LAN respectively.



Wireless

Basic Settings

This page includes all primary and major parameters. Any parameter change will cause the device to reboot for the new settings to take effect.



☐ Disable Wireless LAN	Check the box to disable the Wireless LAN Interface, by so doing,	
Interface	you won't be able to make wireless connection with this Access	
	Point in the network you are located. In other words, this device will	
	not be visible by any wireless station.	
Band	You can choose one mode of the following you need.	
	⊙ 2.4GHz (B): 802.11b supported rate only.	
	⊙ 2.4GHz (G): 802.11g supported rate only.	
	⊙ 2.4GHz (B+G): 802.11b supported rate and 802.11g supported	
	rate.	
	The default is 2.4GHz (B+G) mode.	
Mode	This Wireless Access Point can support four modes AP, Client,	
	Bridge and Repeater. (Refer to page 7-11 for detailed	
	information)	
Network Type	When in Client mode, you can select between Ad-Hoc and	
	Infrastructure.	

SSID	The SSID differentiates one WLAN from another; therefore, all
	access points and all devices attempting to connect to a specific
	WLAN must use the same SSID. It is case-sensitive and must not
	exceed 32 characters. A device will not be permitted to join the
	BSS unless it can provide the unique SSID. An SSID is also referred
	to as a network name because essentially it is a name that
	identifies a wireless network.
Region Domain	The AP's domain determines the channel number.
Channel Number	Allow user to set the channel manually or automatically .
	If set channel manually, just select the channel you want to specify.
	If "Auto" is selected, user can set the channel range to have
	Wireless Access Point automatically survey and choose the channel
	with best situation for communication.
	The number of channels supported depends on the region of this
	Access Point. All stations communicating with the Access Point
	must use the same channel.
□Enable Mac Clone	If your ISP restricts service to PCs only, use the MAC Clone feature
(Single Ethernet Client)	to copy a PC Media
	Access Control (MAC) address to your router. This procedure will
	cause the router to appear
	as a single PC, while allowing online access to multiple computers
	on your network.

Apply Changes	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press
	Apply Change.

Advanced Settings

It is not recommended that settings in this page to be changed unless advanced users want to change to meet their wireless environment for optimal performance

Air Live	WLAN Access Point
OvisLink Corp.	Status Wireless TCP/IP Other Basic Settings / Advanced Settings / Security / Access Control / Site Survey / WOS Setting
	Wireless Advanced Settings
These settings are only for more technically advanced users who have a	Authentication Type: ☐ Open System ☐ Shared Key ☐ Auto Fragment Threshold: 2346 (256-2346)
sufficient knowledge about wireless LAN. These settings should not be changed	RTS Threshold: 2347 (0-2347) Beacon Interval: 100 (20-1024 ms)
unless you know what effect the changes will have on your Access	Data Rate: Auto Preamble Type: © Long Preamble C Short Preamble
Point.	Broadcast SSID: © Enabled © Disabled IAPP: © Enabled © Disabled
	Apply Changes Reset © Disabled

Authentication Type

To provide a certain level of security, the IEEE 802.11 standard has defined two types of authentication methods, Open System and Shared Key. With Open System authentication, a wireless PC can join any network and receive any messages that are not encrypted. With Shared Key authentication, only those PCs that possess the correct authentication key can join the network. By default, IEEE 802.11 wireless devices operate in an Open System network.

Wired Equivalent Privacy (WEP) data encryption is used when the wireless devices are configured to operate in Shared Key authentication mode.

If the Access Point is using **Open System**, then the wireless adapter will need to be set to the same authentication mode.

Shared Key is used when both the sender and the recipient share a secret key.

Select **Auto** for the network adapter to select the Authentication mode automatically depending on the Access Point Authentication

	mode.
Fragment Threshold	Fragmentation mechanism is used for improving the efficiency
	when high traffic flows along in the wireless network. If your
	802.11g Wireless LAN PC Card often transmit large files in wireless
	network, you can enter new Fragment Threshold value to split the
	packet. The value can be set from 256 to 2346. The default value
	is 2346 .
RTS Threshold	RTS Threshold is a mechanism implemented to prevent the "Hidden
	Node " problem. "Hidden Node" is a situation in which two stations are
	within range of the same Access Point, but are not within range of
	each other. Therefore, they are hidden nodes for each other. When a
	station starts data transmission with the Access Point, it might not
	notice that the other station is already using the wireless medium.
	When these two stations send data at the same time, they might
	collide when arriving simultaneously at the Access Point. The collision
	will most certainly result in a loss of messages for both stations.
	Thus, the RTS Threshold mechanism provides a solution to
	prevent data collisions. When you enable RTS Threshold on a
	suspect "hidden station", this station and its Access Point will
	use a Request to Send (RTS). The station will send an RTS to
	the Access Point, informing that it is going to transmit the
	data. Upon receipt, the Access Point will respond with a CTS
	message to all station within its range to notify all other
	stations to defer transmission. It will also confirm the
	requestor station that the Access Point has reserved it for the
	time-frame of the requested transmission.
	If the "Hidden Node" problem is an issue, please specify the packet
	size. The RTS mechanism will be activated if the data size exceeds the
	value you set. The default value is 2347.
	Warning: Enabling RTS Threshold will cause redundant network
	overhead that could negatively affect the throughput performance
	instead of providing a remedy.
	This value should remain at its default setting of 2347 . Should you
	encounter inconsistent data flow, only minor modifications of this value are
	recommended.
Beacon Interval	Beacon Interval is the amount of time between beacon transmissions.

	Before a station enters power save mode, the station needs the
	beacon interval to know when to wake up to receive the beacon (and
	learn whether there are buffered frames at the access point).
Data Rate	By default, the unit adaptively selects the highest possible rate for
	transmission. Select the basic rates to be used among the following
	options: Auto, 1, 2, 5.5, 11or 54 Mbps. For most networks the default
	setting is Auto which is the best choice. When Auto is enabled the
	transmission rate will select the optimal rate. If obstacles or
	interference are present, the system will automatically fall back to a
	lower rate.
Preamble Type	A preamble is a signal used in wireless environment to synchronize
	the transmitting timing including Synchronization and Start frame
	delimiter. In a "noisy" network environment, the Preamble Type
	should be set to Long Preamble . The Short Preamble is intended
	for applications where minimum overhead and maximum
	performance is desired. If in a "noisy" network environment, the
	performance will be decreased.
Broadcast SSID	Select enabled to allow all the wireless stations to detect the SSID of
	this Access Point.
IAPP	IAPP (Inter Access Point Protocol) is designed for the enforcement of
	unique association throughout a ESS (Extended Service Set) and a
	secure exchange of station's security context between current access
	point (AP) and new AP during handoff period.
802.11g Protection	The 802.11g standard includes a protection mechanism to ensure mixed
	802.11b and 802.11g operation. If there is no such kind of mechanism exists,
	the two kinds of standards may mutually interfere and decrease network's
	performance.
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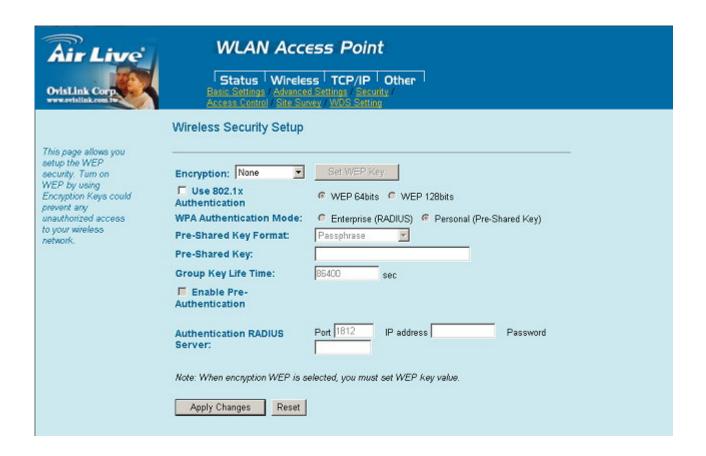
Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press
	Apply Change.

Security

Here you can configure the security of your wireless network. Selecting different method will enable you to have different level of security. Please note that by using any encryption, by which data packet is encrypted before transmission to prevent data packets from being eavesdropped by unrelated people, there may be a significant degradation of the data throughput on the wireless link.

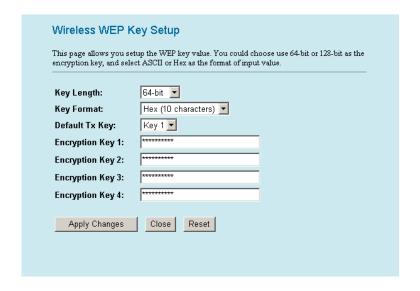
Encryption: **None** (Encryption is set to **None** by default.)

If **Use 802.1x Authentication** is selected, the RADIUS Server will proceed to check the 802.1x Authentication.



Encryption: WEP

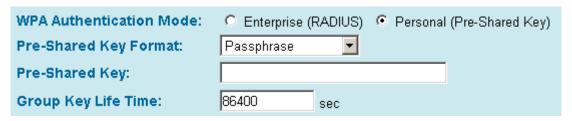
If **WEP** is selected, users will have to **Set WEP keys** either manually, or select to **Use 802.1x Authentication** to make the RADIUS server to issue the WEP key dynamically.



Click the Set WEP Keys will prompt you a window to set 64bit or 128bit Encryption. Select HEX if you are using hexadecimal numbers (0-9, or A-F). Select ASCII if you are using ASCII characters (case-sensitive). Ten hexadecimal digits or five ASCII characters are needed if 64-bit WEP is used; 26 hexadecimal digits or 13 ASCII characters are needed if 128-bit WEP is used.

Encryption: WPA (TKIP)

WPA (TKIP): If WPA is selected, users will have to select the Authentication modes between Enterprise (RADIUS) and Personal (Pre-shared Key).



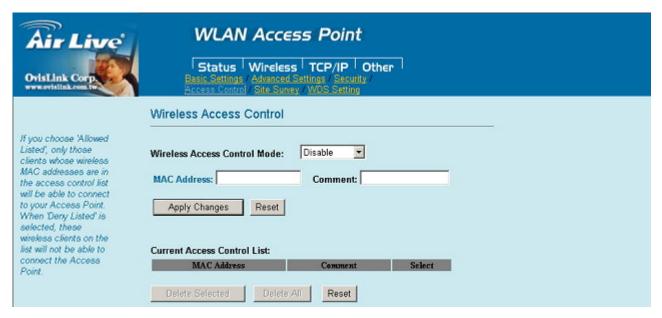
Pre-shared Key	Pre-Shared-Key serves as a password. Users may key in a 8 to 63
	characters string to set the password or leave it blank, in which the
	802.1x Authentication will be activated. Make sure the same password
	is used on client's end.
	There are two formats for choice to set the Pre-shared key, i.e.
	Passphrase and Hex. If Hex is selected, users will have to enter a 64
	characters string. For easier configuration, the Passphrase (at least 8
	characters) format is recommended.
Group Key Life Time	Enter the number of seconds that will elapse before the group key

	change automatically. The default is 86400 seconds.
Enable	The two most important features beyond WPA to become standardized
Pre-Authentication	through 802.11i/WPA2 are: pre-authentication, which enables secure
	fast roaming without noticeable signal latency.
	Preauthentication provides a way to establish a PMK security association
	before a client associates. The advantage is that the client reduces the
	time that it's disconnected to the network.
Authentication	Port: Enter the RADIUS Server's port number provided by your ISP. The
RADIUS Server	default is 1812.
	IP Address: Enter the RADIUS Server's IP Address provided by your
	ISP.
	Password: Enter the password that the AP shares with the RADIUS
	Server.

Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press
	Apply Change.

Access Control

When **Enable Wireless Access Control** is checked, only those clients whose wireless MAC addresses listed in the access control list can access this Access Point. If the list contains no entries with this function being enabled, then no clients will be able to access this Access Point.

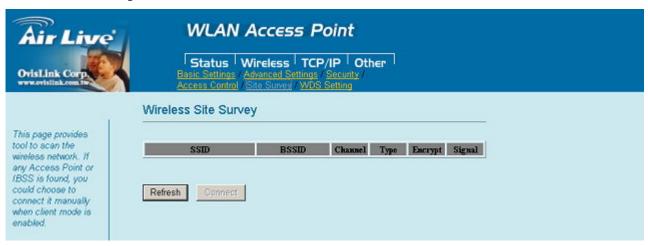


Wireless Access	Select the Access Control Mode from the pull-down menu.
Control Mode	Disable : Select to disable Wireless Access Control Mode.
	Allow Listed: Only the stations shown in the table can associate with the
	AP.
	Deny Listed: Stations shown in the table won't be able to associate with
	the AP.
MAC Address	Enter the MAC Address of a station that is allowed to access this Access
	Point.
Comment	You may enter up to 20 characters as a remark to the previous MAC
	Address.
Apply Changes	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press Apply
	Change.
Delete Selected	To delete clients from access to this Access Point, you may firstly check the
	Select checkbox next to the MAC address and Comments, and press
	Delete Selected.
Delete All	To delete all the clients from access to this Access Point, just press Delete
	All without selecting the checkbox.
Reset	If you have made any selection, press Reset will clear all the select mark.
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Site Survey

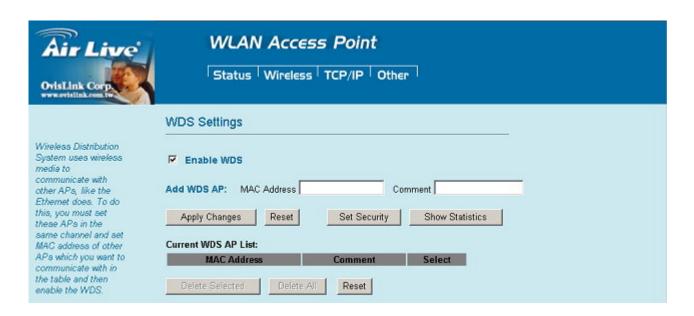
Site survey displays all the active Access Points and IBSS in the neighborhood. When you are in the client mode, you can select one AP to associate.

Press **Refresh** to get the latest information.



WDS Setting

To enable WDS function will let this AP enter "Bridge Mode". Two APs in bridge modes can communicate with each other through wireless interface. That is, two stations associated to different AP in bridge mode can communicate with each other.



□ **Enable WDS**Check the checkbox to enable WDS, all of the WDS settings in this screen can be enabled only when WDS or AP+WDS is selected in Wireless Basic Settings screen (See page 19).

Add WDS AP	MAC Address: Enter the MAC Address for the Access Point to establish
	WDS
	Comment: You may enter up to 20 characters as a remark to the
	previous MAC Address.
Apply Changes	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press
	Apply Change.
Set Security	Click to set the WDS security, please refer to the previous Wireless
	Security Setup section (Page 27).
	WDS Security Setup - Microsoft Internet Explorer
	WDS Security Setup
	This page allows you setup the wireless security for WDS. When enabled, you must make sure each WDS device has adopted the same encryption algorithm and Key.
	Encryption: WEP 128bits
	WEP Key Format: Ascii (13 characters)
	Pre-Shared Key
	Format: Pre-Shared Key:
	Apply Changes Close Reset
Show Statistics	Click to show the detailed information for each WDS AP.
	WDS AP Table - Misrosoft Internet Explorer
	WDS AP Table This table shows the MAC address, transmission, receiption packet counters and state
	information for each configured WDS AP.
	MAC Address Tx Packets Tx Errors Rx Packets Tx Rate (Mbps)
	Refresh Close
C	
Current WDS AP List	The added Access Points for participating WDS with this Access Point .
	are shown.
Delete Selected	You can delete the WDS Access Points listed above by marking the
	checkbox.
Delete All	You can delete all of the WDS Access Points listed above.
Reset	Press to discard the data you have entered since last time you press
	Apply Change.

TCP/IP

Basic

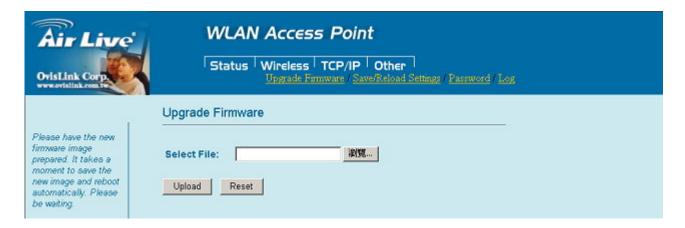
In this page, you can change the TCP/IP settings of this Access Point, select to enable/disable the DHCP Client, 802.1d Spanning Tree, and Clone MAC Address.



IP Address	This field can be modified only when DHCP Client is disabled. If your
	system manager assigned you static IP settings, then you will have to
	enter the information provided.
Subnet Mask	Enter the information provided by your system manager.
Default	Enter the information provided by your system manager.
Gateway	
DHCP	Select Disable , Client or Server from the pull-down menu.
	Disable: Select to disable DHCP server function.
	Client: Select to automatically get the LAN port IP address from ISP (For
	ADSL/Cable Modem).
	Server: Select to enable DHCP server function.
DHCP Client	WL-5060AP IP addresses continuing from 192.168.100.1 to
Range	192.168.100.253
Show Client	Click to show Active DHCP Client table.

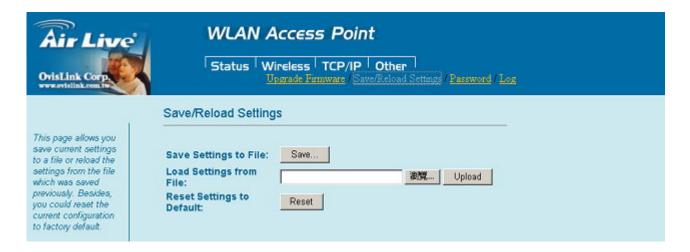
DNS Server	Enter the Domain Name Service IP address.
802.1d	To enable 802.1d Spanning Tree will prevent the network from
802.1d Spanning Tree	
Clone MAC	You can specify the MAC address of your Access Point to replace the
Address	factory setting.
Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press Apply Change.

Upgrade Firmware



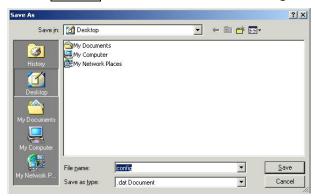
- 1. Download the latest firmware from your distributor and save the file on the hard drive.
- 2. Start the browser, open the configuration page, click on Other, and click Upgrade Firmware to enter the Upgrade Firmware window. Enter the new firmware's path and file name (i.e. C:\FIRMWARE\firmware.bin). Or, click the Browse button, find and open the firmware file (the browser will display to correct file path).
- 3. Click **Reset** to clear all the settings on this page. Or click **Upload** to start the upgrade.

Save/Reload Settings



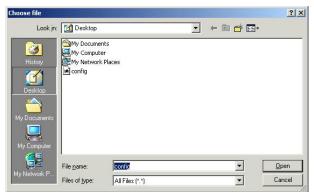
This function enables users to save the current configurations as a file (i.e. **config.dat**) To load configuration from a file, enter the file name or click **Browse...** to find the file from your computer.

Save Settings to File: Click **SAVE..** to save the current configuration to file.



When prompted the upper left screen, select "Save this file to disk", and the upper right screen will prompt you a dialog box to enter the file name and the file location.

Load Settings From File: Click **Browse...** if you want to load a pre-saved file, enter the file name with the correct path and then click on **Upload**. Or click **Browse...** to select the file.



Reset: Click to restore the default configuration.

Password

For secure reason, it is recommended that you set the account to access the web server of this Access Point. Leaving the user name and password blank will disable the protection. The login screen prompts immediately once you finish setting the account and password. Remember your user name and password for you will be asked to enter them every time you access the web server of this Access Point.



User Name	Enter your new user name to access the web server. User name can be up
	to 30 characters long. User name can contain letter, number and space.
	It is case sensitive.
New Password	Set your new password. Password can be up to 30 characters long.
	Password can contain letter, number and space. It is case sensitive.
Confirm Password	Re-enter the new password for confirmation.
Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press Apply
	Change.