

## Universal Mode Setting

The screenshot shows the 'WLAN Access Point' configuration interface for 'Air Live' by OvisLink Corp. The page title is 'WLAN Access Point' and the sub-section is 'WDS Repeater Mode Settings'. The interface includes a navigation bar with 'Mode', 'Status', 'TCP/IP', 'Reboot', and 'Other' tabs. The main content area contains the following settings:

- Alias Name:** A text input field containing 'Wireless\_AP'.
- Disable Wireless LAN Interface**
- Band:** A dropdown menu set to '2.4 GHz (B+G)'.
- SSID:** A text input field containing 'airlive'.
- Channel Number:** A dropdown menu set to '13'.
- Wireless Client Isolation:** A dropdown menu set to 'Disabled'.
- 802.1d Spanning Tree:** A dropdown menu set to 'Disabled'.
- Security:** A 'Setup' button.
- WDS Security:** A 'Setup' button.
- Advanced Settings:** A 'Setup' button.
- Access Control:** A 'Setup' button.

At the bottom of the settings area are two buttons: 'Apply Changes' and 'Reset'. On the left side of the page, there is a note: 'This page is used to setup different wireless mode.'

<b>Alias Name</b>	You can set the alias name for this device. limited not exceed 32 characters.
<input type="checkbox"/> <b>Disable Wireless LAN Interface</b>	Check the box to disable the Wireless LAN Interface, by so doing, 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.
<b>Band</b>	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.
<b>SSID</b>	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
<b>Channel Number</b>	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.
<b>SSID of extended Interface</b>	When in Universal mode, you have to enter the ESSID of other's AP/Router that device want to connect. The device SSID and the SSID of extended interface can be the same or different.

	When you are using the universal mode, please make sure the remote AP/Router WDS function is turned off.
<b>Site Survey</b>	Please refer the Bridge mode settings→ Site Survey for details.
<b>Security</b>	Please refer the AP mode settings→ Security for details, This setting used Wireless client or remote AP to link this device.
<b>Advance Setting</b>	Please refer the AP mode settings→ Advance Setting for details.
<b>Access Control</b>	Please refer the AP mode setting → Access Control for details.

## WISP (Client Router) Mode Setting

**Air Live**  
OvisLink Corp.  
www.ovislink.com.tw

**WLAN Access Point**

Mode | Status | TCP/IP | Reboot | Other

### WISP Mode Settings

*This page is used to setup different wireless mode.*

Alias Name:

Disable Wireless LAN Interface

Band:  ▼

SSID:

Clone MAC Address:

Security:

Advanced Settings:

Wan Port:

Virtual Server:

Special Application:

DMZ:

Remote Management:

<b>Alias Name</b>	You can set the alias name for this device. limited not exceed 32 characters
<input type="checkbox"/> <b>Disable Wireless LAN Interface</b>	Check the box to disable the Wireless LAN Interface, by so doing, 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.
<b>Band</b>	You can choose one mode of the following you need. ◎ 2.4GHz <b>(B)</b> : 802.11b supported rate only. ◎ 2.4GHz <b>(G)</b> : 802.11g supported rate only. ◎ 2.4GHz <b>(B+G)</b> : 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz <b>(B+G)</b> mode.
<b>SSID</b>	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. In WISP mode, you have to enter the WISP Outdoor AP SSID manually or click the "site survey" button to connect and get SSID automatically.
<b>Site Survey</b>	Please refer the Client mode settings→ Site Survey for details.
<b>MAC Clone Address</b>	Enter the MAC Address of Single Ethernet Client.
<b>Security</b>	Please refer the AP mode settings→ Security Survey for details. Not supported with RADIUS 802.1x authentication.

**Advance Setting**

Please refer the AP mode settings→ Advance Setting for details.

**WAN port**

**WAN Port Configuration**

WAN Access Type:

Attain DNS Automatically  
 Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Respond to WAN Ping  
 Enable UPnP  
 Enable IPsec pass through on VPN connection  
 Enable PPTP pass through on VPN connection  
 Enable L2TP pass through on VPN connection

You can select many WAN Access Type : Static IP , DHCP Client, PPPOE, PPTP, and L2TP for WAN connection depend on you WISP provided.

**Virtual Server**

Enable Virtual Servers

Servers:

Local IP Address:

Protocol:

Port Range:  -

Description:

Current Virtual Servers Table:

Local IP Address	Protocol	Port Range	Description	Select
				<input type="checkbox"/>

In WISP mode, you can setup and enable Virtual server function. Like Web, FTP, Email, DNS, Telnet server.  
Select one virtual server type and enter the Local IP address, Local Port Range and click the save button.

**Special Application**

**Special Applications**

Name	Incoming Type	Incoming Start Port	Incoming End Port	Trigger Type	Trigger Start Port	Trigger End Port	Enable
Quick Time 4	BOTH	6970	6999	BOTH	554	554	<input checked="" type="checkbox"/>
Dialpad	BOTH	51200	51201	BOTH	7175	7175	<input checked="" type="checkbox"/>
Paltalk	BOTH	2090	2091	BOTH	8200	8700	<input checked="" type="checkbox"/>
Battle.net	UDP	6112	6119	TCP	6112	6112	<input checked="" type="checkbox"/>
	TCP	0	0	TCP	0	0	<input type="checkbox"/>
	TCP	0	0	TCP	0	0	<input type="checkbox"/>
	TCP	0	0	TCP	0	0	<input type="checkbox"/>
	TCP	0	0	TCP	0	0	<input type="checkbox"/>

You can enable some system default special application, like Qucktime 4

	<p>Audio/Video application, Dialpad internet phone service. or define the special application manually, select the incoming type (TCP/UDP) Incoming start ~ End port ,Trigger Start ~ End port. Select the Trigger Type.</p>
<p><b>DMZ</b></p>	<div data-bbox="630 315 1257 660" data-label="Form"> </div> <p>Enable DMZ and enter the DMZ Host IP address.</p>
<p><b>Remote Management</b></p>	<div data-bbox="520 745 1366 1093" data-label="Form"> </div> <p>Enable the function that setting configuration from Internet.</p>

## WISP + Universal Mode Setting

**Air Live**  
OvisLink Corp.  
www.ovislink.com.tw

**WLAN Access Point**

Mode | Status | TCP/IP | Reboot | Other

### WISP + Universal Repeater Mode Settings

*This page is used to setup different wireless mode.*

Alias Name:

Disable Wireless LAN Interface

Band:  ▼

SSID:

SSID of Extended Interface:

Clone MAC Address:

Enable Encryption On:  ▼

Security:

Advanced Settings:

Wan Port:

Virtual Server:

Special Application:

DMZ:

Remote Management:

<b>Alias Name</b>	You can set the alias name for this device. limited not exceed 32 characters
<input type="checkbox"/> <b>Disable Wireless LAN Interface</b>	Check the box to disable the Wireless LAN Interface, by so doing, 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.
<b>Band</b>	You can choose one mode of the following you need. ◎ 2.4GHz <b>(B)</b> : 802.11b supported rate only. ◎ 2.4GHz <b>(G)</b> : 802.11g supported rate only. ◎ 2.4GHz <b>(B+G)</b> : 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz <b>(B+G)</b> mode.
<b>SSID</b>	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. In WISP mode, you have to enter the WISP Outdoor AP SSID manually or click the "site survey" button to connect and get SSID automatically.
<b>Site Survey</b>	Please refer the Client mode settings→ Site Survey for details.
<b>SSID of extended Interface</b>	Please refer the Universal mode settings→ SSID of extended Interface for details.
<b>MAC Clone Address</b>	Enter the MAC Address of Single Ethernet Client.

<b>Enable Encryption On</b>	<div style="background-color: #e0f2f1; padding: 5px;"> <p><b>Enable Encryption On:</b> <span style="border: 1px solid black; padding: 2px;">Both WAN and WLAN side ▾</span></p> <p><b>Security:</b> <span style="border: 1px solid black; padding: 2px;">Both WAN and WLAN side WLAN side only WAN side only</span></p> <p><b>Advanced Settings:</b></p> </div> <p>You can designate security to use for WLAN side, WAN side or both sides.</p> <p><b>Both WAN and WLAN side:</b> The security is used on both the WISP and the Wireless Client(PC side) connection..</p> <p><b>WLAN side only:</b> The security used on wireless client connection only. The WISP side is not encrypted.</p> <p><b>WAN side only:</b> The security used on WISP connection only. The WLAN side is not encrypted..</p>
<b>Security</b>	Please refer the AP mode settings→ Security Survey for details. Not supported with RADIUS 802.1x authentication.
<b>Advance Setting</b>	Please refer the AP mode settings→ Advance Setting for details.
<b>WAN port</b>	Please refer the WISP mode settings→ WAN port Setting for details.
<b>Virtual Server</b>	Please refer the WISP mode settings→ Virtual Server Setting for details.
<b>Special Application</b>	Please refer the WISP mode settings→ Special Application Setting for details.
<b>DMZ</b>	Please refer the WISP mode settings→ DMZ Setting for details.
<b>Remote Management</b>	Please refer the WISP mode settings→ Remote Management Setting for details.

## GW Mode Setting

**Air Live**  
OvisLink Corp.  
www.ovislink.com.tw

**WLAN Access Point**

Mode | Status | TCP/IP | Reboot | Other

**GW Mode Settings**

*This page is used to setup different wireless mode.*

Alias Name:

Disable Wireless LAN Interface

Band:  ▾

SSID:

Channel Number:  ▾

Wireless Client Isolation:  ▾

Security:

Advanced Settings:

Access Control:

Wan Port:

Virtual Server:

Special Application:

DMZ:

Remote Management:

Dynamic DNS:

Ping:

DoS Setting:

Diagnostics:

URL Filtering:

MAC Filtering:

IP Filtering:

**Note:** You may need to scroll the window in the actual web browser display to view all items in GW Mode Settings.

<b>Alias Name</b>	You can set the alias name for this device. limited not exceed 32 characters
<input type="checkbox"/> <b>Disable Wireless LAN Interface</b>	Check the box to disable the Wireless LAN Interface. By doing so, 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.
<b>Band</b>	You can choose one mode of the following you need. ◎ 2.4GHz <b>(B)</b> : 802.11b supported rate only. ◎ 2.4GHz <b>(G)</b> : 802.11g supported rate only. ◎ 2.4GHz <b>(B+G)</b> : 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz <b>(B+G)</b> mode.

<b>SSID</b>	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. In WISP mode, you have to enter the WISP Outdoor AP SSID manually or click the “site survey” button to connect and get SSID automatically.
<b>Channel Number</b>	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.
<b>Wireless Client Isolation</b>	When enabled, the wireless clients are separated from each other. Please refer the AP mode settings→ Wireless Client Isolation for details.
<b>Security</b>	Please refer the AP mode settings→ Security Survey for details.
<b>Advance Setting</b>	Please refer the AP mode settings→ Advance Setting for details.
<b>WAN port</b>	Please refer the WISP mode settings→ WAN port Setting for details.
<b>Virtual Server</b>	Please refer the WISP mode settings→ Virtual Server Setting for details.
<b>Special Application</b>	Please refer the WISP mode settings→ Special Application Setting for details.
<b>DMZ</b>	Please refer the WISP mode settings→ DMZ Setting for details.
<b>Remote Management</b>	Please refer the WISP mode settings→ Remote Management Setting for details.
<b>Dynamic DNS</b>	The DDNS (require DDNS Service) allows you to alias a dynamic IP address to a static hostname, allowing your device to be more easily accessed by specific name. When this function is enabled, the IP address in DDNS Server will be automatically updated with the new IP address provided by ISP.
<b>Ping</b>	Ping is a network tool used to test whether a particular host is reachable across an IP network.
<b>DoS setting</b>	In WL5470AP , a denial-of-service attack (DoS attack) can block or limit the system sending network flood to your local computer.
<b>Diagnostics</b>	The <b>nslookup</b> command can be used in diagnostics to find the IP addresses of a particular computer, using DNS lookup. The name means "name server lookup". The most common version of the program is included as part of the BIND package.
<b>URL Filtering</b>	The URL filter database is used for internet filtering that blocks access to unwanted web content by URLs.
<b>MAC Filtering</b>	MAC Filter: Enables you to allow or deny Internet access to users within the LAN based upon the MAC address of their network interface.
<b>IP Filtering</b>	The IP filter function enables you to define a minimum and maximum IP address range filter; all IP addresses falling within the range are not allowed Internet access

## 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.

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OvisLink Corp.  
www.ovislink.com.tw

**WLAN Access Point**

Mode | **Status** | TCP/IP | Reboot | Other  
System / Statistics / Active Clients

**System Data**

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

**System**

<b>Uptime:</b>	0day:0h:4m:56s
<b>Firmware Version:</b>	v9.2.3.3.1eu_b[2]

**Wireless**

<b>Mode:</b>	AP
<b>Physical Address:</b>	00:4f:62:0e:88:76
<b>Band:</b>	2.4 GHz (B+G)
<b>SSID:</b>	airlive
<b>Channel Number:</b>	13
<b>Encryption:</b>	Disabled
<b>Associated Clients:</b>	0
<b>BSSID:</b>	00:4f:62:0e:88:76

**LAN Configuration**

<b>Connection Method:</b>	Fixed IP
<b>Physical Address:</b>	00:4f:62:0e:88:76
<b>IP Address:</b>	192.168.100.252
<b>Network Mask:</b>	255.255.255.0
<b>Default Gateway:</b>	0.0.0.0
<b>DHCP Server:</b>	OFF

- **System**

**System Data**

**System**

<b>Uptime:</b>	0day:0h:4m:56s
<b>Firmware Version:</b>	v9.2.3.3.1eu_b[2]

**Wireless**

<b>Mode:</b>	AP
<b>Physical Address:</b>	00:4f:62:0e:88:76
<b>Band:</b>	2.4 GHz (B+G)
<b>SSID:</b>	airlive
<b>Channel Number:</b>	13
<b>Encryption:</b>	Disabled
<b>Associated Clients:</b>	0
<b>BSSID:</b>	00:4f:62:0e:88:76

**LAN Configuration**

<b>Connection Method:</b>	Fixed IP
<b>Physical Address:</b>	00:4f:62:0e:88:76
<b>IP Address:</b>	192.168.100.252
<b>Network Mask:</b>	255.255.255.0
<b>Default Gateway:</b>	0.0.0.0
<b>DHCP Server:</b>	OFF

System	
Uptime	The time period since the device was up.
Firmware Version	The current version of the firmware installed in this device.
Wireless	
Mode	There are 7 modes supported, The default mode is Access Point. If you want to change to other mode, please click the Mode and select the wireless mode you want.
Physical Address	Display wireless MAC address information.
Band	Display wireless band type information.
SSID	Display the SSID of this device.
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	Display encryption setting information.
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.
LAN Configuration (TCP/IP)	
Connection Method:	Display the connection method, you can setup in TCP/IP section
Physical Address:	Display the LAN MAC address
IP Address:	Display the LAN IP address, you can setup in TCP/IP section
Network Mask:	Display the network mask, you can setup in TCP/IP section
Default Gateway:	Display the default gateway ip , you can setup in TCP/IP section
DHCP Server:	Default the DHCP Server is enabled(ON)
DHCP Start IP Address:	Display the DHCP server start IP address.
DHCP Finish IP Address:	Display the DHCP server finish IP address.
Internet Configuration	
Connection Method:	Display the internet connection method, you can setup in WISP mode→WAN Port configuration
Physical Address:	Display the AP MAC address information
IP Address:	Display the internet IP Address, you can setup in WISP mode→WAN Port configuration
Network Mask:	Display the network mask, you can setup in WISP mode→WAN Port configuration
Default Gateway:	Display the default gateway , you can setup in WISP mode→WAN Port configuration

- **Statistics**

The screenshot shows a web interface titled "Statistics". It contains a table with three main sections: Wireless LAN, Ethernet LAN, and Ethernet WAN. Each section has two rows for "Sent Packets" and "Received Packets". Below the table is a "Refresh" button.

Statistics		
<b>Wireless LAN</b>	Sent Packets	1380
	Received Packets	8679
<b>Ethernet LAN</b>	Sent Packets	1867
	Received Packets	0
<b>Ethernet WAN</b>	Sent Packets	3906
	Received Packets	4856

Refresh

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

- **Active Clients**

The screenshot shows a web interface titled "Active Wireless Client Table". It contains a table with five columns: MAC Address, Tx Packet, Rx Packet, Tx Rate (Mbps), and Power Saving. The only row shows "None" for all fields. Below the table is a "Refresh" button.

MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving
None	---	---	---	---

Refresh

Display the active Wireless Clients information: Wireless MAC address, Tx/Rx Packet, Tx Rate, and Power Saving information.

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www.ovislink.com.tw

**WLAN Access Point**

Mode | Status | TCP/IP | Reboot | Other

### LAN Interface Setup

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

IP Address:

Subnet Mask:

Default Gateway:

DHCP:  Server IP:

DHCP Client Range:  -

DNS Server:

Clone MAC Address:

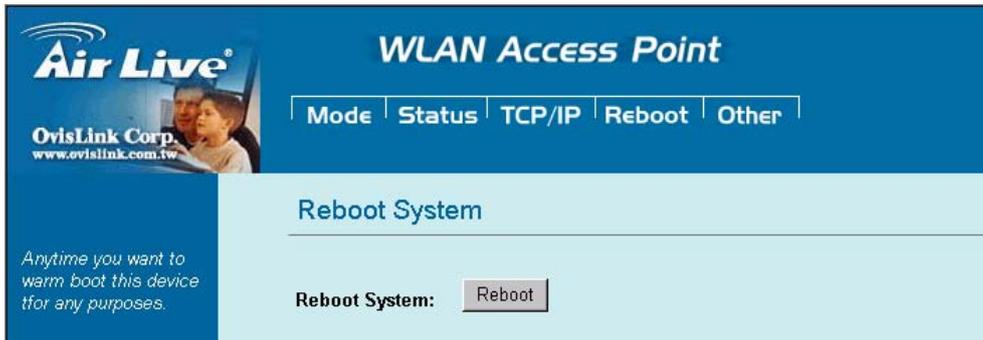
In this page, you can change the TCP/IP settings of this Access Point, select to enable/disable the DHCP Client, 802.1d Spanning Tree, and Clone MAC Address.

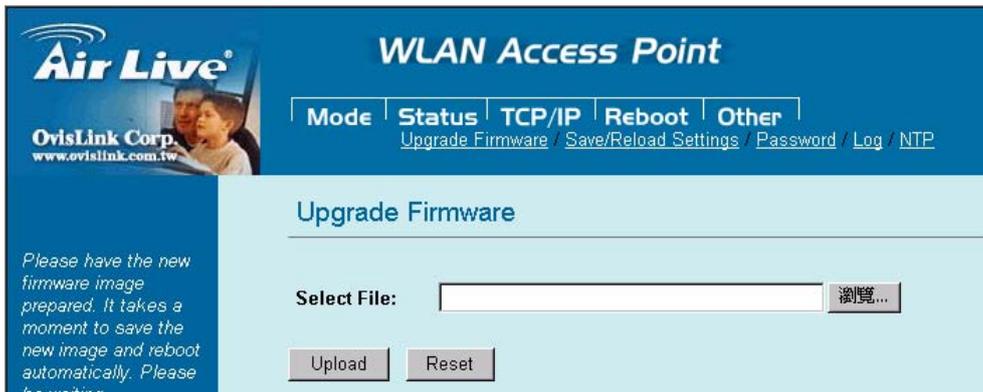
<b>IP Address</b>	This field can be modified only when DHCP Client is disabled. If your system manager assigned you static IP settings, then you will have to enter the information provided.
<b>Subnet Mask</b>	Enter the information provided by your system manager.
<b>Default Gateway</b>	Enter the information provided by your system manager.
<b>DHCP</b>	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.
<b>DHCP Client Range</b>	WL-5060AP IP addresses continuing from 192.168.100.1 to 192.168.100.253
<b>Show Client</b>	Click to show Active DHCP Client table.
<b>DNS Server</b>	Enter the Domain Name Service IP address.
<b>802.1d Spanning Tree</b>	To enable 802.1d Spanning Tree will prevent the network from infinite loops. Infinite loop will happen in the network when WDS is enabled and there are multiple active paths between stations.

	<p>The diagram illustrates a network configuration with two overlapping wireless networks in bridge mode. Each network is represented by a yellow circle containing an Access Point (AP) and a station. Both APs are labeled 'Wireless Network (Bridge Mode)' and '802.11g Spanning Tree must be enabled'. They share the same MAC address: 00-4F-62-03-DA-A5. The top network includes 'Station 2 (PC with Wireless network adaptor)' and is connected to 'Computer 2'. The bottom network includes 'Station 1 (Notebook with Wireless network adaptor)' and is connected to 'Computer 1'. Both APs are connected to their respective computers via 'Ethernet' links. A dashed blue line labeled 'Undesired loop' connects the two APs, indicating a network loop that can occur when two bridge-mode APs share the same MAC address and are connected to a common network segment.</p>
<p><b>Clone MAC Address</b></p>	<p>You can specify the MAC address of your Access Point to replace the factory setting.</p>

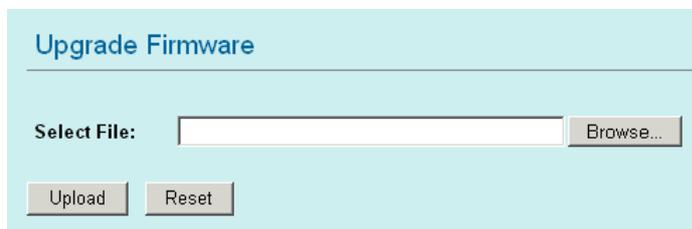
## Reboot

Click the **Reboot** button to restart device.



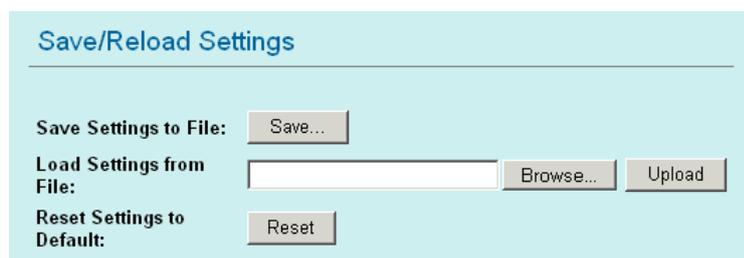


## • Upgrade Firmware



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.
3. Enter the new firmware's path and file name (i.e. C:\FIRMWARE\firmware.bin) or click the **Browse** button to find and open the firmware file (the browser will display to correct file path).
4. Click **Upload** button to start the upgrade function or **Reset** button to clear all the settings on this page.

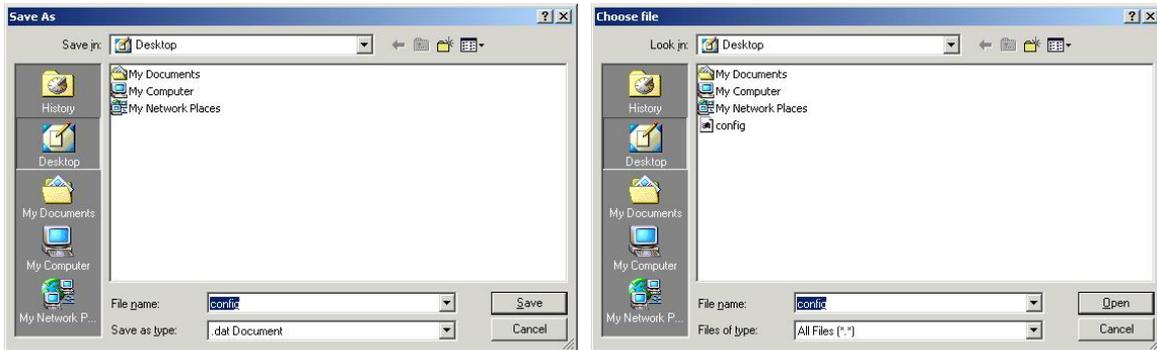
## • Save / Reload Settings



This function enables users to save the current configuration as a file (i.e. **config.dat**) or loads 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.

**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 Settings to Default:** Click **Reset** button to restore the default configuration.

- **Password**

### Password Setup

**New Password:**

**Confirmed Password:**

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

<b>New Password</b>	Set your new password. Password can be up to 30 characters long. Password can contain letter, number and space. It is case sensitive.
<b>Confirm Password</b>	Re-enter the new password for confirmation.

**Note:** when you setup the password and click the apply change button, system will pop-up Window and ask the username and password, Please enter system default username **“admin”** (not changeable) and your password for entering the configuration WEB UI.

- **Log**

### System Log

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

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**Enable Log**  
 System all                       Wireless only

This function can list all log information about device.

<b>Enable Log</b>	Enabled or Disabled display system log information.
<b>System All</b>	List system all log information.
<b>Wireless Only</b>	List wireless log information only.
<b>Refresh</b>	Refresh log information.
<b>Clear</b>	Clear all information in window.

• **NTP**

This function can setting system time from local computer or Internet.

<b>Current Time</b>	Setting system time
<b>Enable NTP client update</b>	Enable or Disable setting system from Internet NTP Server.
<b>Time Zone Select</b>	Select system time zone.
<b>NTP Server</b>	Select NTP Server by Server List or Manual Input.
<b>Save</b>	Save configuration to flash.
<b>Reset</b>	Reset system time configuration.
<b>Refresh</b>	Refresh system time information.