

Status > Device Info

D-Link
Building Networks for People

Air Premier™
2.4GHz Wireless Access Point with PoE

DWL-3200AP

Device Info

Stats

Client Info

Home **Advanced** **Tools** **Status** **Help**

Device Information

Firmware Version: v1.00
MAC Address: 00:0f:3d:fd:b4:2a

Ethernet

Get IP From:	Manual
IP address:	192.168.0.50
Subnet Mask:	255.255.255.0
Gateway:	0.0.0.0

Wireless (802.11g)

SSID:	default
Channel:	6
Super G Mode:	Disabled
Rate:	Auto
Security Level:	Open System / Encryption Disabled

+
Help

Device Information: This window displays the settings of the DWL-3200AP, the firmware version and the MAC address.

Status > Stats

The screenshot shows the configuration page for a D-Link DWL-3200AP. The page title is "Air Premier™ 2.4GHz Wireless Access Point with PoE". The navigation tabs are Home, Advanced, Tools, Status (selected), and Help. On the left sidebar, there are buttons for "Device Info", "Stats" (highlighted in yellow), and "Client Info". The main content area displays "WLAN 802.11G Traffic Statistics" with the following data:

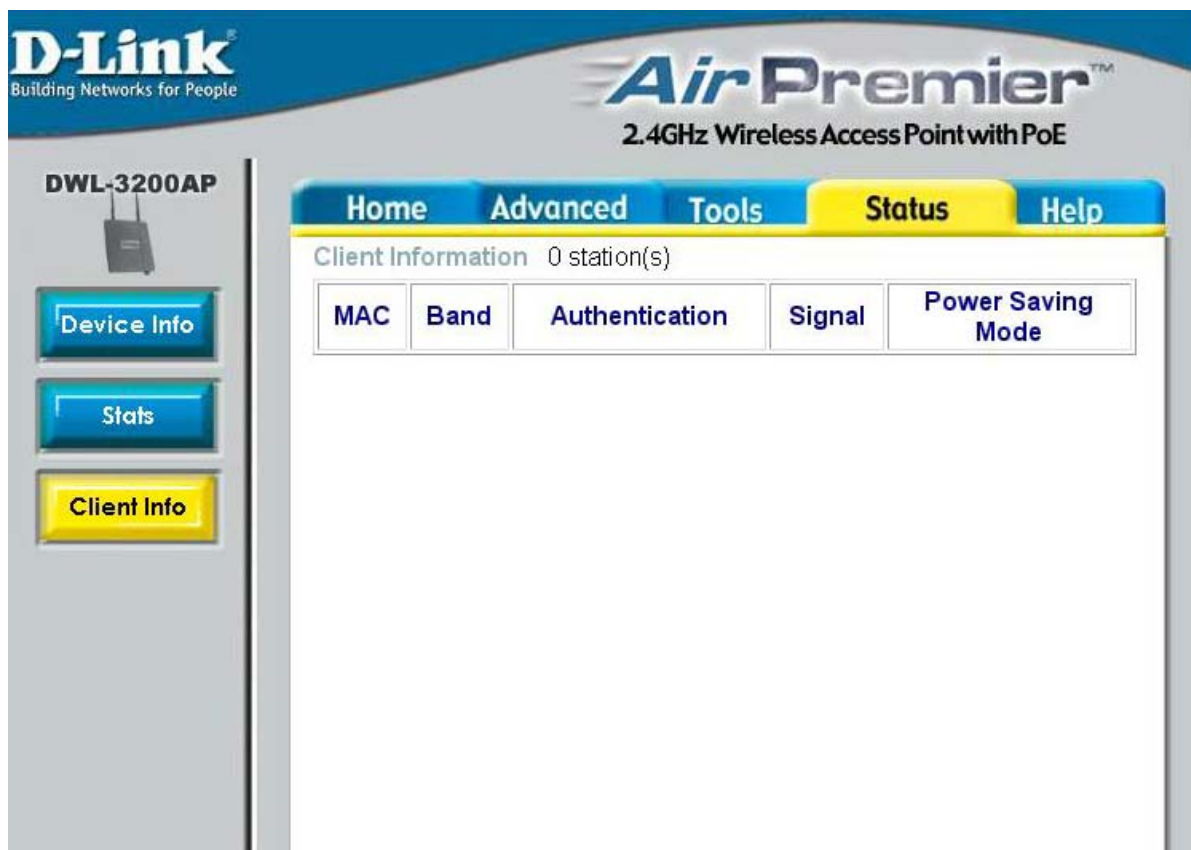
ThroughPut	
Transmit Success Rate	100 %
Transmit Retry Rate	1 %
Receive Success Rate	0 %
Receive Duplicate Rate	0 %
RTS Success Count	20
RTS Failure Count	58
Transmitted Frame Count	
Transmitted Frame Count	0
Multicast Transmitted Frame Count	56
Transmitted Error Count	19
Transmitted Total Retry Count	81
Transmitted Multiple Retry Count	58
Received Frame Count	
Received Frame Count	48
Multicast Received Frame Count	35
Received Frame FCS Error Count	89
Received Frame Duplicate Count	82
Ack Rcv failure Count	74
Wep Frame Error Count	
WEP Excluded Frame Count	17
WEP ICV Error Count	86

At the bottom right of the statistics area, there are "Refresh" and "Help" icons.

WLAN 802.11G Traffic Statistics:

This window displays the statistics of the IEEE 802.11g network.

Status > Client Info



Client Information: Select this option to obtain information on wireless clients. (A client is a device on the network that is communicating with the DWL-3200AP.)

The following information is available for each client that is communicating with the DWL-3200AP.

MAC: Displays the MAC address of the client.

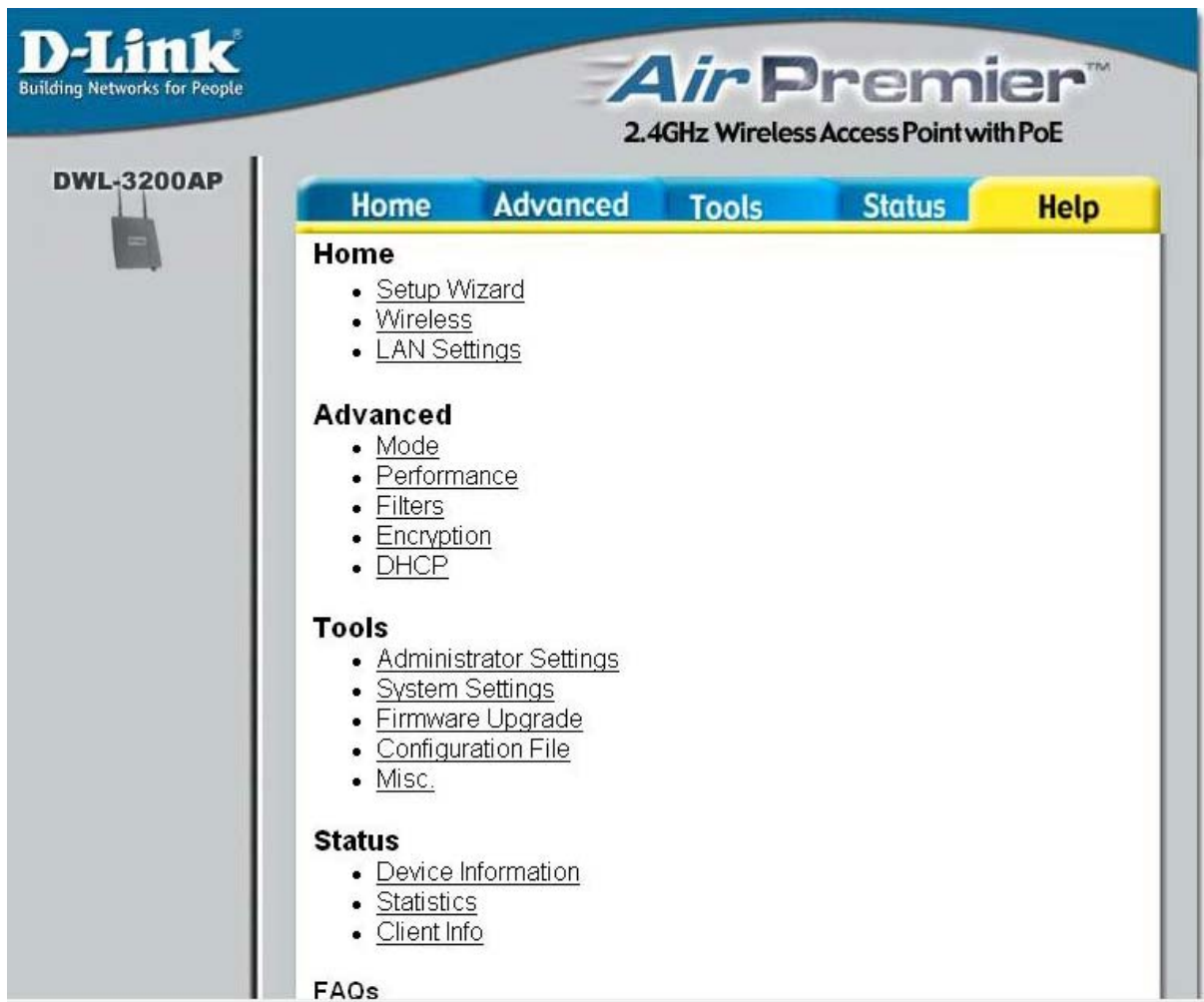
Band: Displays the wireless band.

Authentication: Displays the type of authentication that is enabled.

Signal: Indicates the strength of the signal

Power Saving Mode: Displays the status of the power saving feature.

Help



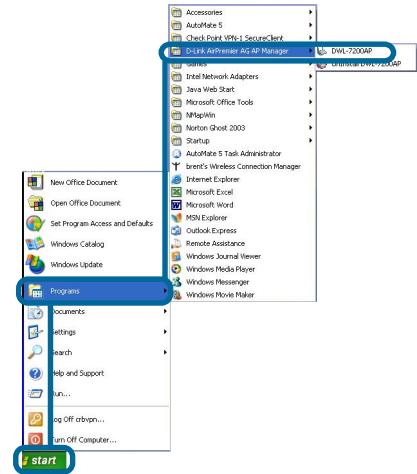
Help: Click on any item in the Help screen for more information.

Using the AP Manager

The **AP Manager** is a convenient tool to manage the configuration of your network from a central computer. With **AP Manager** there is no need to configure devices individually.

To launch the **AP Manager**:

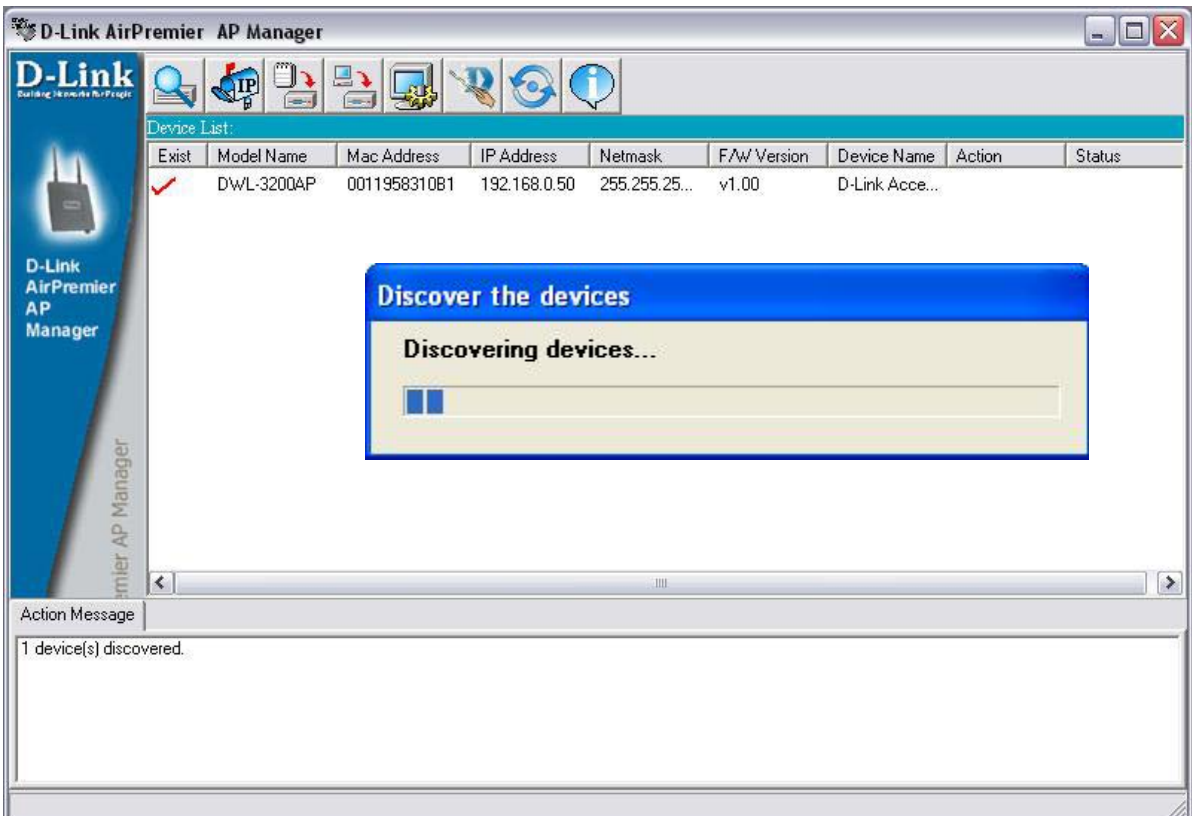
- Go to the **Start Menu**
- Select **Programs**
- Select **D-Link AirPremier AP Manager**
- Select **DWL-3200AP**



Discovering Devices



Click on this button to **discover the devices** available on the network.



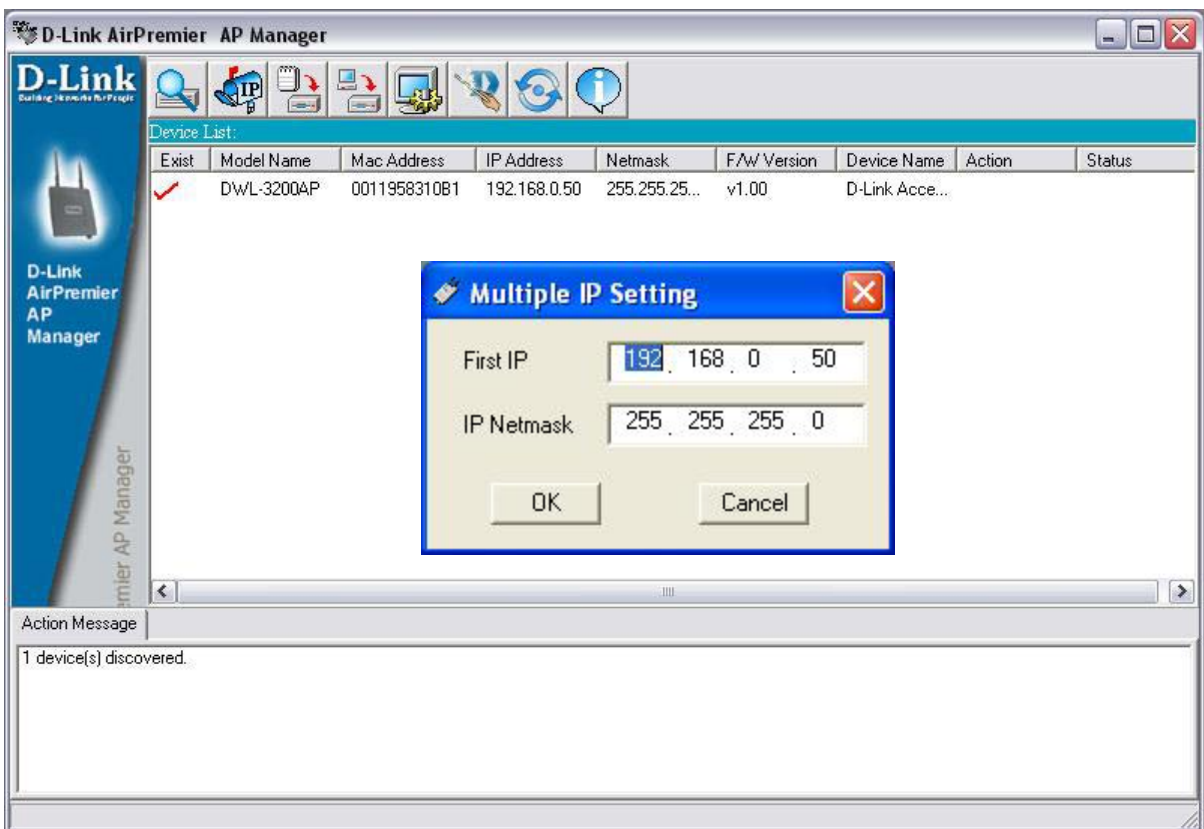
Selecting Devices

The AP Manager allows you to configure multiple devices all at once. To select a single device, simply click on the device you want to select. To select multiple devices, hold down the **Ctrl** key while clicking on each additional device. To select an entire list, hold the **Shift** key, click on the first AP on the list and then click on the last AP on the list.

IP Configuration



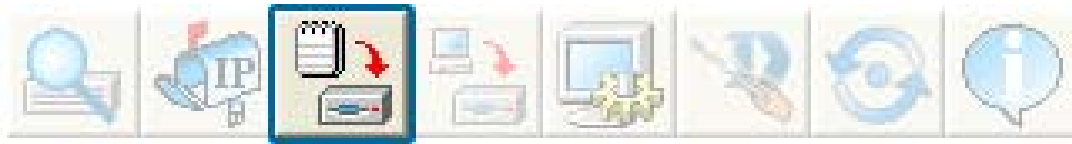
You can assign an IP address to an AP or assign IP addresses to multiple AP's by clicking on this button after selecting the device(s).



Select the AP that you want to assign an IP address to and click the IP button. Enter the IP address and IP netmask for the selected device and click OK.

You can configure multiple AP's with IP addresses all at once. Click on the IP button after you've selected all of the AP's you want to assign an IP address. Enter the IP address you want to assign the first unit and the AP manager will automatically assign sequential IP addresses.

Device Configuration



Click on this button to access the configuration properties of the selected device(s).

The device configuration window allows you to configure settings but does not actually apply the settings to the device unless you click the **Apply** button. You can also save and load configuration files from this window. When you load a configuration file, you must click **Apply** if you want the settings to be applied to the selected device(s).

You can configure a single device by highlighting one device in the list, or you can configure multiple devices by highlighting multiple devices before clicking on the Device Configuration icon pictured above. The examples in this section show single device configuration. When you select multiple devices for configuration the procedure will be similar.

Check All

The Check All button will select all configurable options. Any setting that has a checkmark next to it is applied to the device or saved to the configuration file.

Clear Checks

The Clear Checks button deselects all configurable options. This feature is useful if you only want to change a few settings. Deselect all items and only check the items that you want to modify.

Refresh

Refresh will revert to the actual device settings of the selected device(s).

Apply

To save settings to the device, you must click the Apply button. Only settings that have a checkmark next to them will be applied.

Open

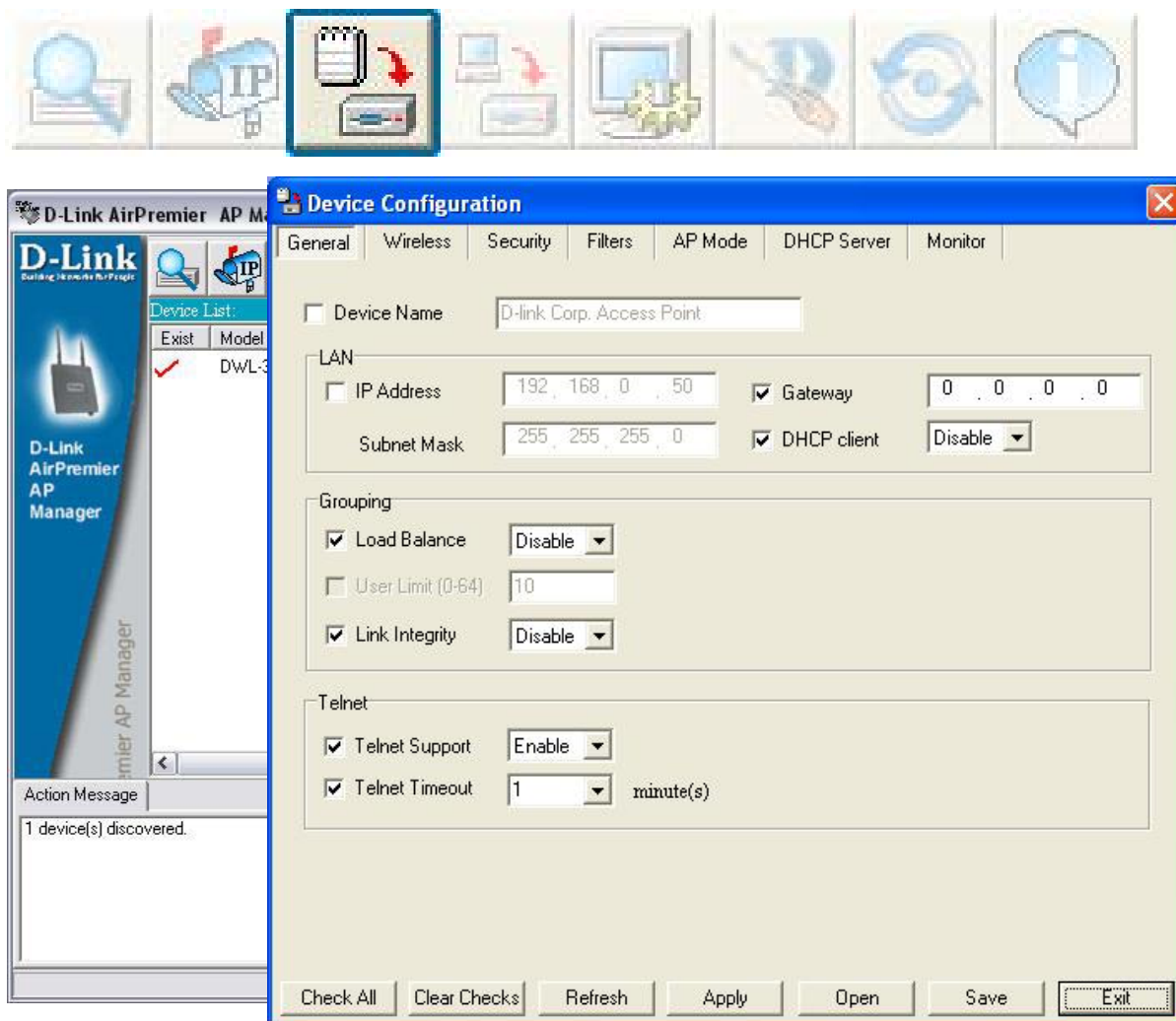
The open button is used to load a previously saved configuration file. After opening a configuration file, you must click the Apply button to save the settings to the selected device(s).

Save

The save button allows you to save a configuration file of the selected device settings. Only settings that have a checkmark next to them are saved. You cannot save a configuration file if you selected more than one device in the device list.

Exit

The Exit button will close the device configuration window. Any settings that haven't been applied will be lost.



Device Configuration > General

When selecting multiple devices for configuration, some options are unavailable for configuration by default as noted(*) below:

Device Name(*): This allows you to change the device name for the selected access point. You must place a checkmark in the Device Name box to change the name. This option should only be configured when one access point is selected for configuration.

IP address and Subnet Mask(*): If you've selected one device for configuration and you want to change the IP address of the device, check the IP Address box. You can then enter an IP address and Subnet Mask for the selected access point. This option should only be configurable when one access point is selected for configuration. To configure multiple devices with an IP address at one time, please reference the previous page.

Gateway: Enter the IP address of your gateway, typically your router address.



Device Configuration > General (continued)

- DHCP client:** There is a pulldown menu to select enabled or disabled. When enabled, the selected device(s) will function as a DHCP client(s). This allows them to receive IP configuration information from a DHCP server. When disabled, the access point(s) must have a static IP address assigned to them.
- Load Balance:** This pulldown selection enables or disables load balancing. When you enable load balance you allow several access points to balance wireless network traffic and wireless clients among the access points with the same SSID. All the APs that share Load Balancing must have the same SSID. Assign each access point a different non-overlapping channel (e.g., 1, 6, 11).
- User Limit:** Enter the number of load balancing users, from 0-64.
- Link Integrity:** This pulldown selection enables or disables Link Integrity. When Link Integrity is enabled, the wireless segment associated with the AP will be disconnected whenever the connection between the AP and the LAN is dropped.
- Telnet Support:** This pulldown selection enables or disables the ability to Telnet into the selected device(s).
- Telnet Timeout:** This pulldown selection defines the timeout period during a Telnet session with the selected device(s).

Device Configuration > Wireless

Device Configuration

General | **Wireless** | Security | Filters | AP Mode | DHCP Server

IEEE802.11g

Wireless setting

SSID: default

Channel: 6

SSID Broadcast: enable

11g only: disable

Super G: disable

Radio Wave: enable

Data Rate: auto

Beacon Interval (20~1000): 100

DTIM (1~255): 1

Fragment Length (256~2346): 2346

RTS Length (256~2346): 2346

Tx Power: full

Auto Channel Scan: Disable

Check All | Clear Checks | Refresh | Apply | Open | Save | Exit

Wireless: Check to enable wireless mode.

SSID: The Service Set (network) Identifier of your wireless network.

Channel: Allows you to select a channel. 6 is the default setting.

SSID Broadcast: Allows you to enable or disable the broadcasting of the SSID to network clients.

11g only: To include only 802.11g devices in your network, select this option.

Super G: Select this option to enable a wireless signal rate of up to 108Mbps.

Radio Wave: Select Enable or Disable.

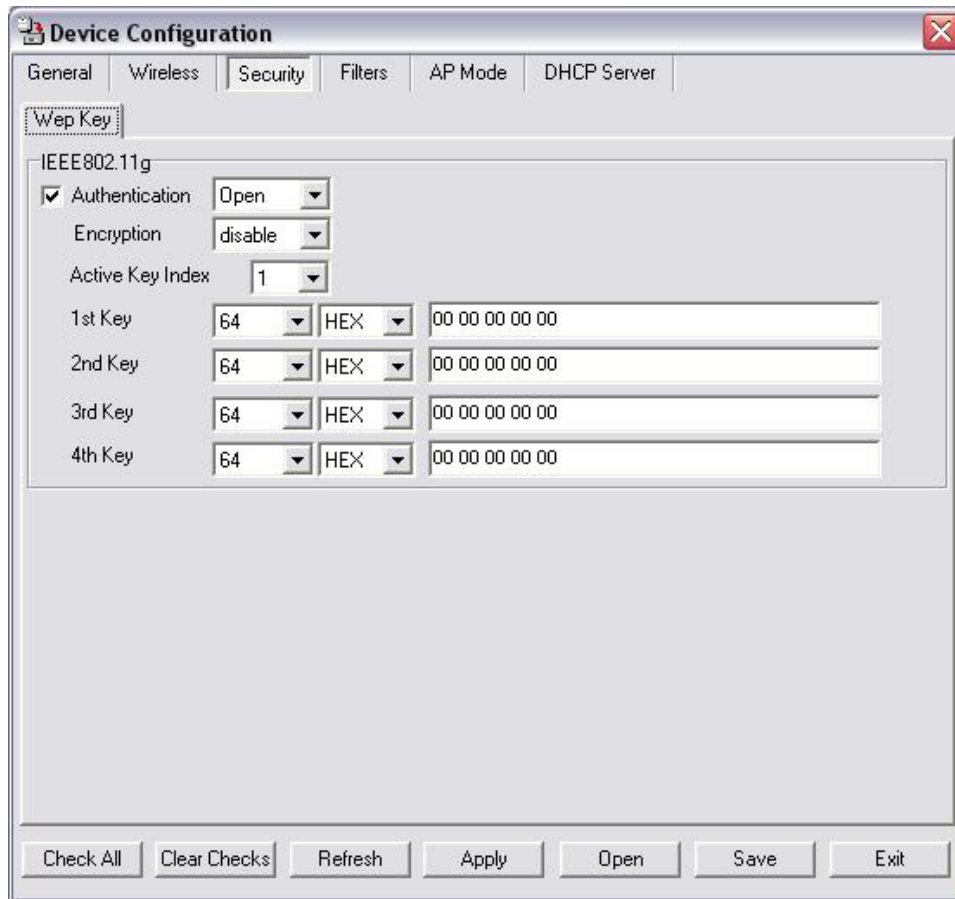
Data Rate: A pulldown menu to select the maximum wireless signal rate for the selected device(s).

Device Configuration > Wireless

Beacon Interval (20~1000):	Beacons are packets sent by an access point to synchronize a network. Specify the beacon value for the selected device(s) here. The default value of 100 is recommended.
DTIM (1~255):	DTIM (Delivery Traffic Indication Message) is a countdown informing clients of the next listening window for broadcast and multicast messages.
Fragment Length (256~2346):	This sets the fragmentation threshold (specified in bytes). Packets exceeding the value set here will be fragmented. The default is 2346.
RTS Length (256~2346):	The RTS value should not be changed unless you encounter inconsistent data flow. The default value is 2346.
Tx Power:	A pulldown menu for selecting the transmit power of the selected device(s).
Auto Channel:	Select this option to automatically select the most optimal channel available for wireless networking.

*Maximum wireless signal rate derived from IEEE Standard 802.11a specifications. Actual data throughput will vary. Network conditions and environmental factors lower actual data throughput rate.

Device Configuration > Security > Open and Shared



The Security tab contains the WEP configuration settings on the initial page. If you select WPA as the authentication type, an additional tab will appear with the WPA configuration options based on your selection.

Authentication Type: Select from the pulldown menu the type of authentication to be used on the selected device(s).

Open: The key is communicated across the network.

Shared: Limited to communication with devices that share the same WEP settings.

Both: The key is communicated and identical WEP settings are required.

WPA: Used to authenticate clients via a RADIUS server.

WPA-PSK: Does not utilize a RADIUS server for authentication but uses a passphrase that is configured on the clients and access points.

RADIUS: Built-in RADIUS server does not require outside server.

Local User: A type of 802.1x security that utilizes user login for security.



Device Configuration > Security > Open and Shared

Encryption: Enable or disable encryption on the selected device(s).

Active Key Index: Select which defined key is active on the selected device(s).

Key Values: Select the key size (64-bit, 128-bit, or 152-bit) and key type (HEX or ASCII) and then enter a string to use as the key. The key length is automatically adjusted based on the settings you choose.

Device Configuration > Security > WPA

The screenshot shows the 'Device Configuration' window with the 'Security' tab selected. The 'Wep Key' is set to 'IEEE802.11g WPA'. The 'WPA setting' section is checked. The 'Cipher Type' is set to 'Auto'. The 'Group Key Update Interval' is set to '1800' (range: 300 - 9999999). The 'PassPhrase' field is empty (range: 8 - 63 chars). The 'Security Server' section has three fields: 'RADIUS Server' (empty), 'RADIUS Port (0 - 65535)' (set to '1812'), and 'RADIUS Secret' (empty). At the bottom, there are buttons for 'Check All', 'Clear Checks', 'Refresh', 'Apply', 'Open', 'Save', and 'Exit'.

Cipher Type: Select Auto, TKIP, or AES from the pulldown menu.

Group Key Update Interval: Select the interval during which the group key will be valid. 1800 is the recommended setting. A lower interval may reduce transfer rates.

RADIUS Server: Enter the IP address of the RADIUS server.

RADIUS Port: Enter the port used on the RADIUS server.

RADIUS Secret: Enter the RADIUS secret.

Device Configuration > Security > WPA-PSK

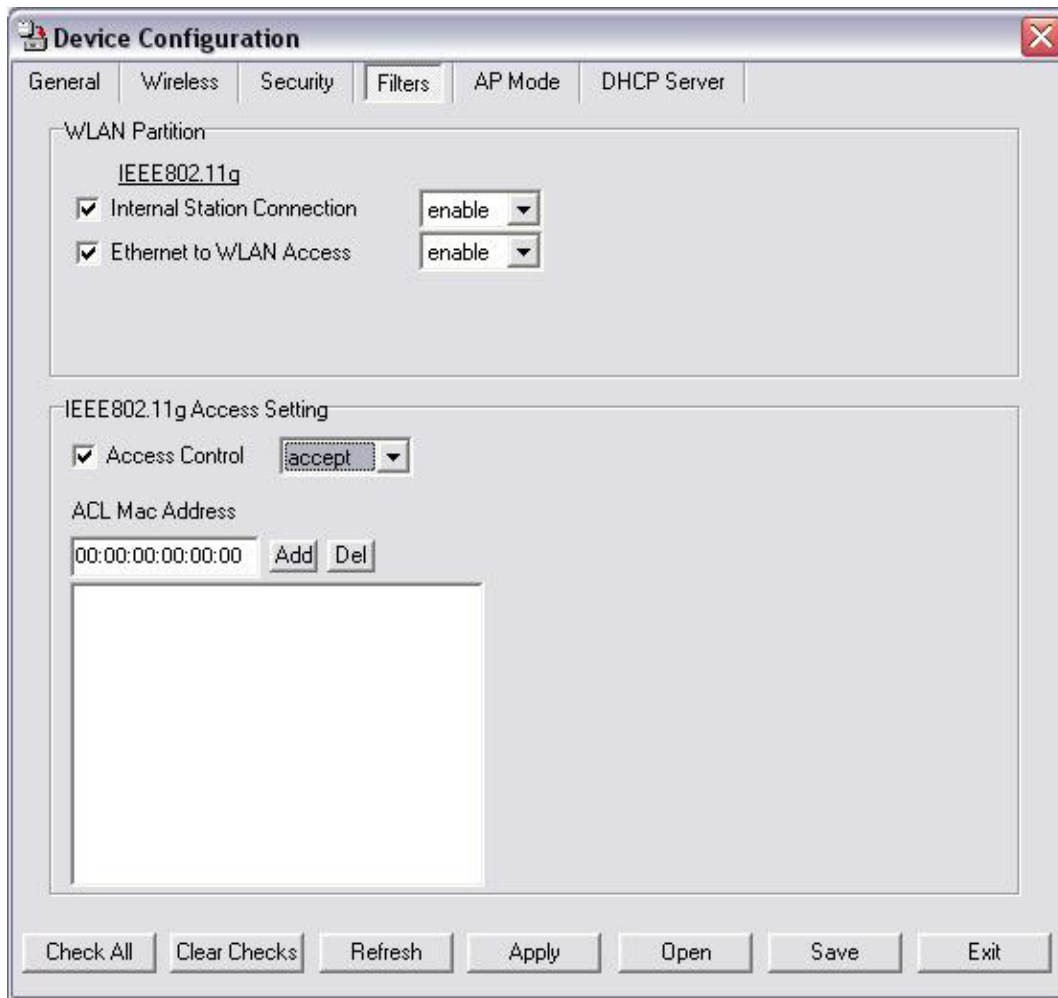
The screenshot shows the 'Device Configuration' window with the 'Security' tab selected. The 'Wep Key' is set to 'IEEE802.11g WPA'. A checkbox for 'WPA setting' is checked. The 'Cipher Type' is set to 'Auto'. The 'Group Key Update Interval' is set to '1800' with a range of '(300 - 9999999)'. The 'PassPhrase' field is empty with a range of '(8 - 63 chars)'. At the bottom, there are buttons for 'Check All', 'Clear Checks', 'Refresh', 'Apply', 'Open', 'Save', and 'Exit'.

Cipher Type: Select auto, TKIP, or AES from the pulldown menu.

Group Key Update Interval: Select the interval during which the group key will be valid. 1800 is the recommended setting. A lower interval may reduce transfer rates.

PassPhrase: Enter a PassPhrase between 8-63 characters in length.

Device Configuration > Filters



Internal Station Connection: Enabling this allows wireless clients to communicate with each other. When this option is disabled, wireless stations are not allowed to exchange data through the access point.

Ethernet to WLAN Access: Enabling this option allows Ethernet devices to communicate with wireless clients. When this option is disabled, all data from Ethernet to wireless clients is blocked. Wireless devices can still send data to the Ethernet devices when this is disabled.

Access Control: When disabled access control is not filtered based on the MAC address. If **Accept** or **Reject** is selected, then a box appears for entering MAC addresses. When **Accept** is selected, only devices with a MAC address in the list are granted access. When **Reject** is selected, devices in the list of MAC addresses are not granted access.

Access Control List: **Add** or **Delete** MAC addresses in the Access Control List.

Device Configuration > AP Mode

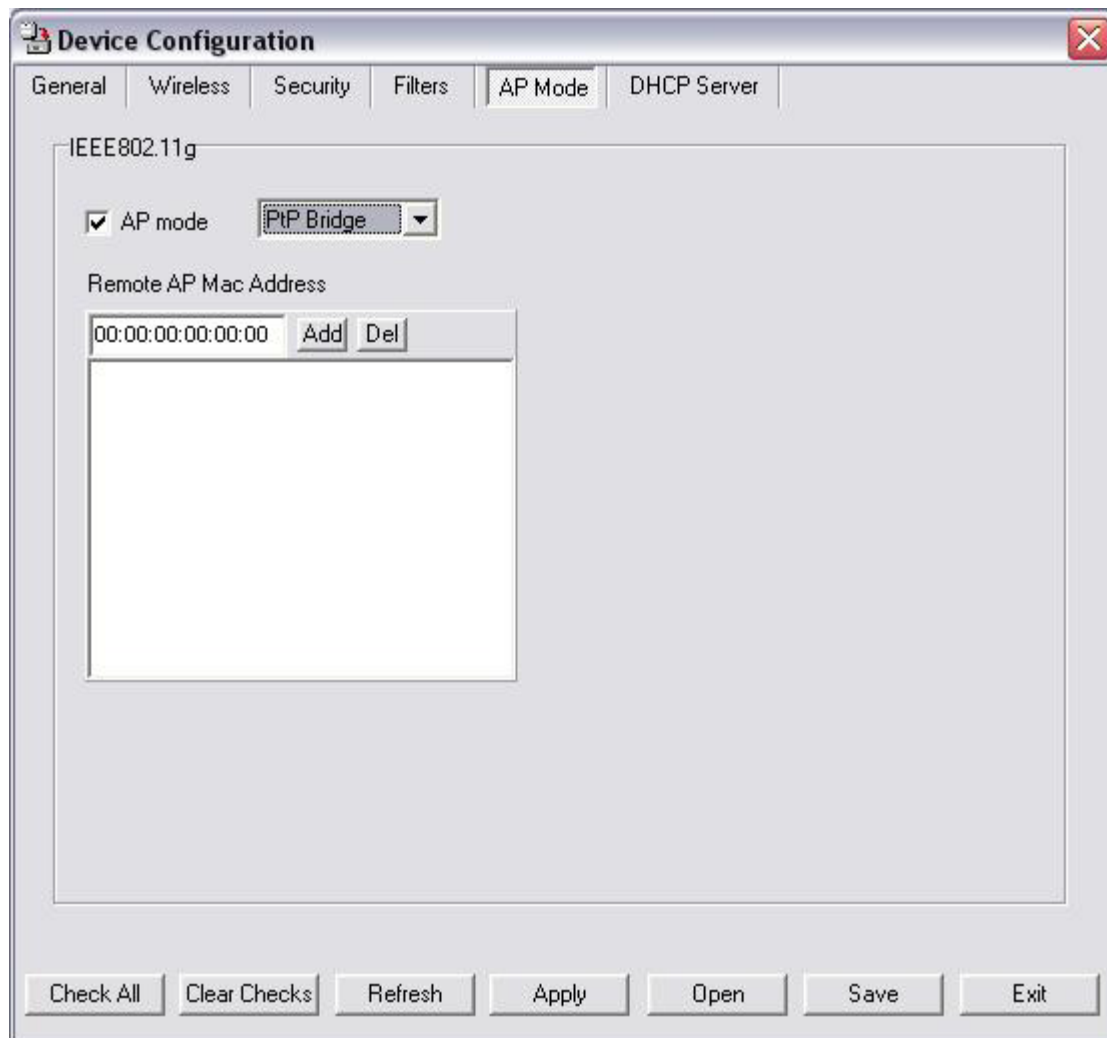


Access Point: There are 3 AP modes:

- Access Point**
- PtP Bridge**
- PtMP Bridge**

Please see the following pages for an explanation of the other 2 AP modes.

Device Configuration > AP Mode > PtP Bridge



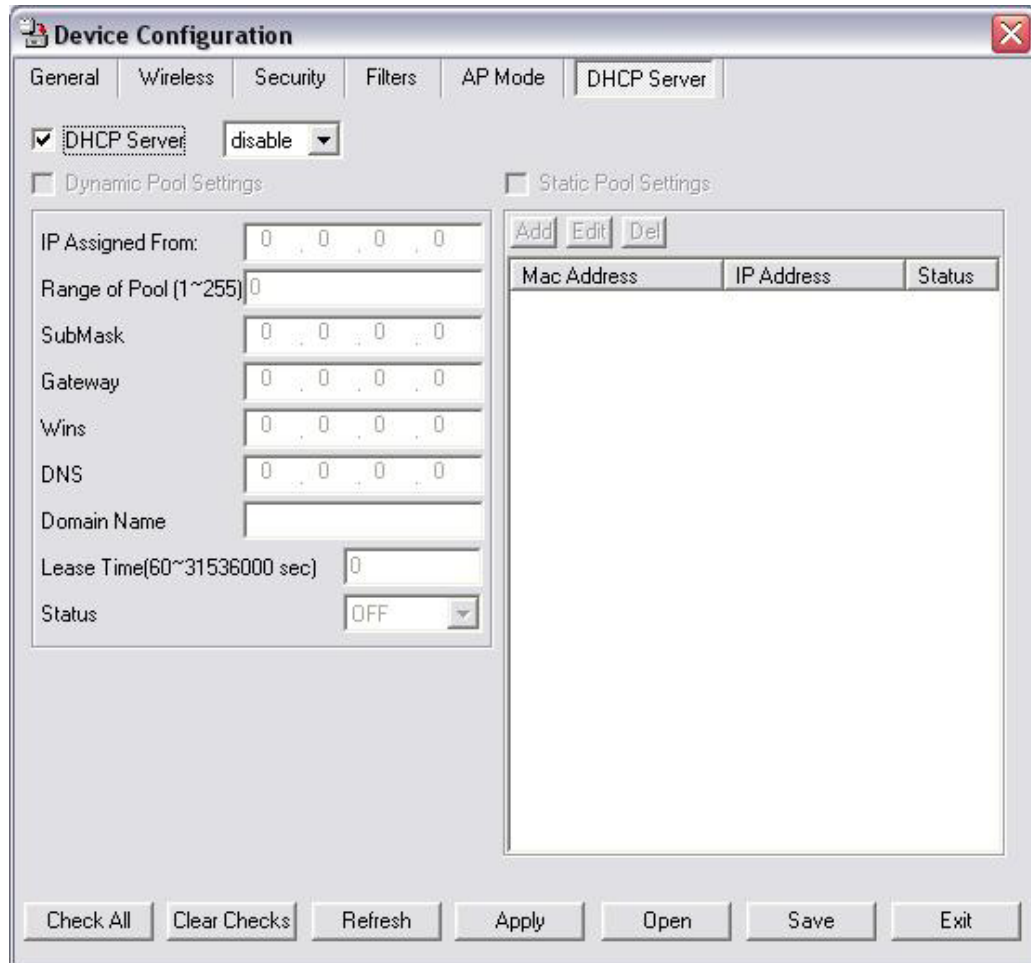
PtP Bridge: Allows you to connect two wireless LANs together. This only works with another DWL-3200AP. If enabled, you must enter the MAC address of the other DWL-3200AP.

Device Configuration > PtMP Bridge



PtMP Bridge: Allows you to connect multiple wireless LANs together. All other LANs must be using DWL-3200APs. When enabled, you must enter the MAC address of the other DWL-3200APs. Enter up to 8 addresses.

Device Configuration > DHCP



DHCP Server: Enable or disable the DHCP server function.

Dynamic Pool Settings: Click to enable Dynamic Pool Settings. Configure the IP address pool in the fields below.

Static Pool Settings: Click to enable Static Pool Settings. Use this function to assign the same IP address to a device at every restart. The IP addresses assigned in the Static Pool list must NOT be in the same IP range as the Dynamic Pool.

IP Assigned From: Enter the initial IP address to be assigned by the DHCP server.

Range of Pool (1~255): Enter the number of allocated IP addresses.

SubMask: Enter the subnet mask.

Gateway: Enter the gateway IP address, typically a router.

Wins: Wins (Windows Internet Naming Service) is a system that determines the IP address of a network computer with a dynamically assigned IP address, if applicable.



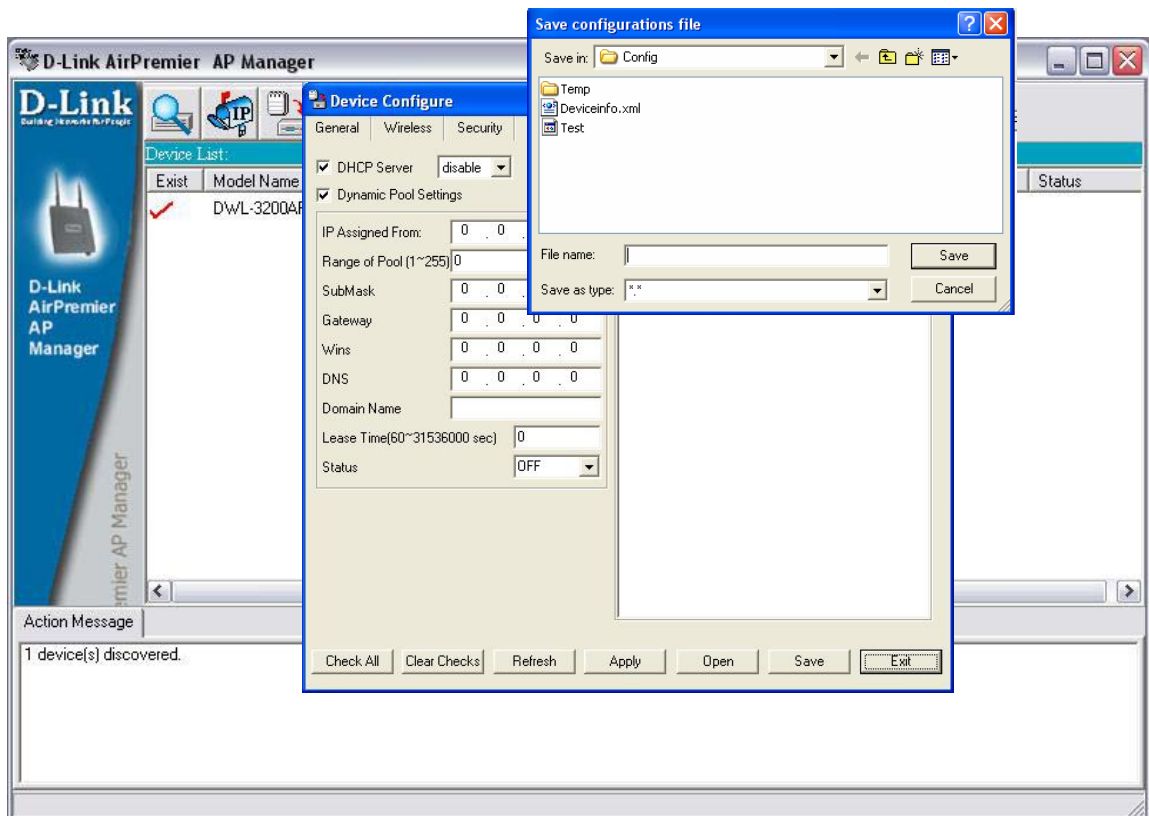
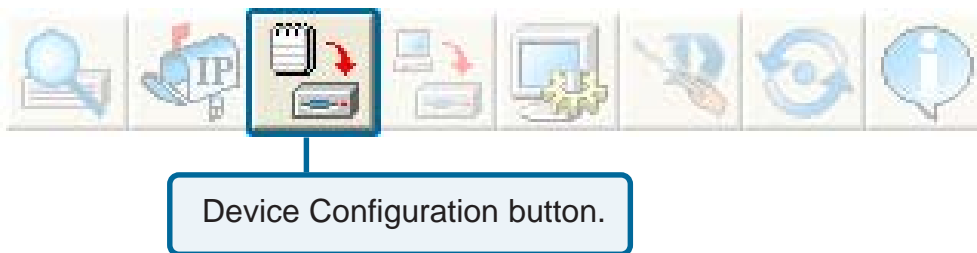
Device Configuration > DHCP (continued)

- DNS:** The IP address of the DNS server, if applicable.
- Domain Name:** Enter the domain name of the DWL-3200AP, if applicable.
- Lease Time:** The period of time that the client will retain the assigned IP address.
- Status:** This option turns the dynamic pool settings on or off.

Configuration Files

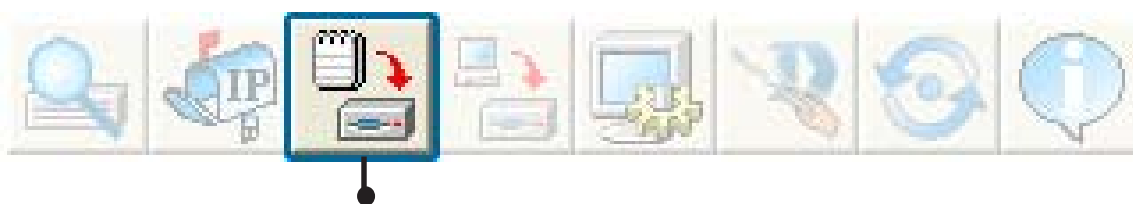
The DWL-3200AP allows you to save the device settings to a configuration file. To save a configuration file follow these steps:

- Select a device from the Device List on the main screen of the AP Manager.
- Click the device configuration button.
- Click the Save button after you have all the settings as you want them.
- A popup window will appear prompting you for a file name and location. Enter the file name, choose a file destination, and click Save.

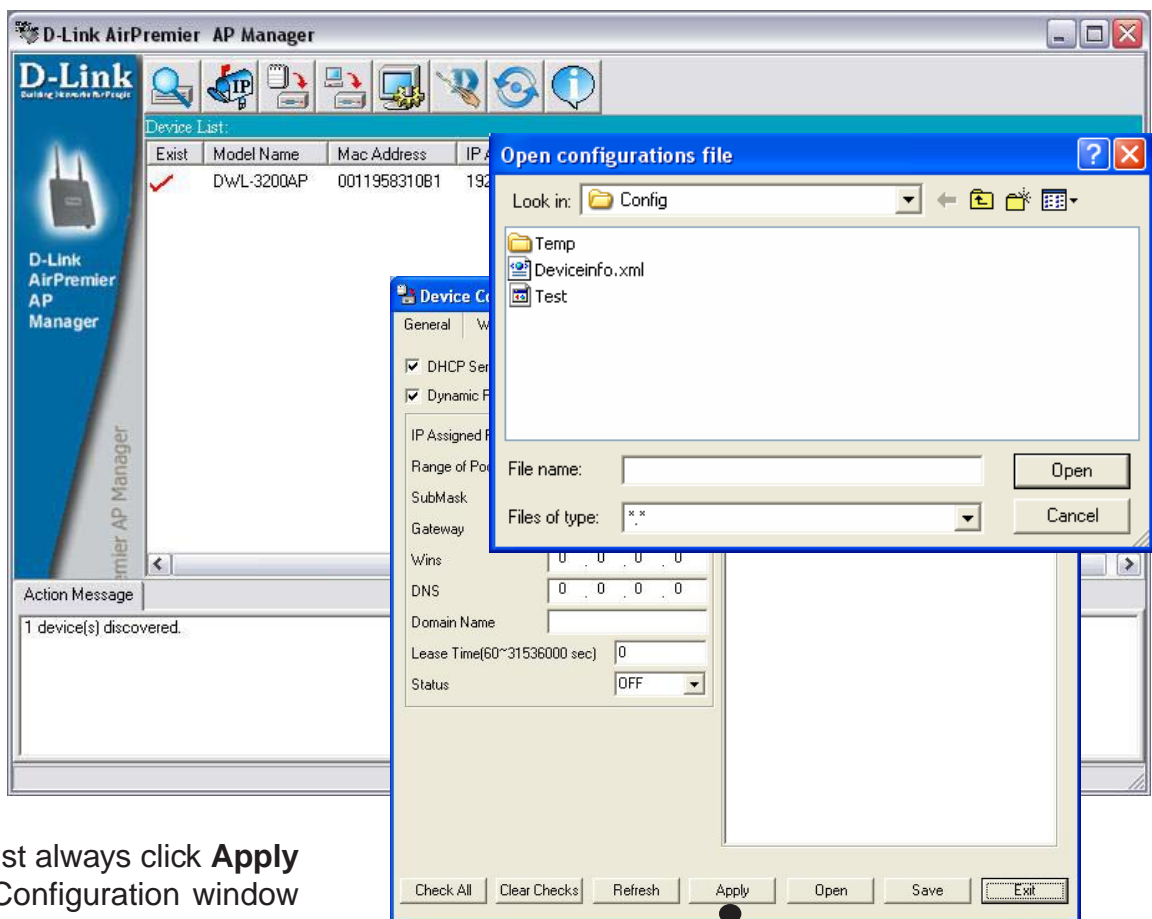


To load a previously saved configuration file, follow these steps:

- Select a device from the Device List on the main screen of the AP Manager.
- Click the device configuration button.
- Click the **Open** button.
- A popup window will appear prompting you to locate the configuration file. Locate the file and click **Open**.
- The configuration file is loaded into the AP Manager but has not actually been written to the device(s). If you want to use the newly loaded configuration for the selected device(s), click **Apply** and the configuration settings will be written to the device(s).

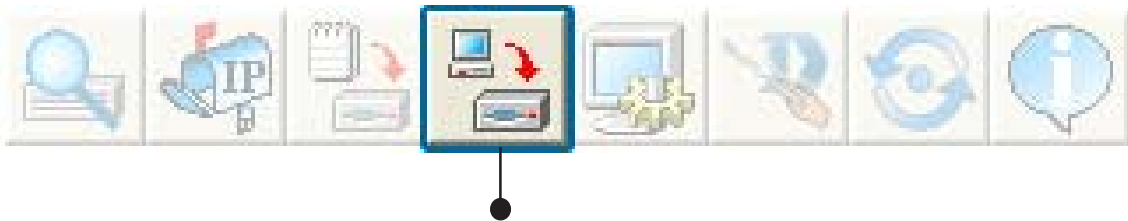


Device Configuration button.



You must always click **Apply** in the Configuration window if you want the settings to take effect.

Firmware



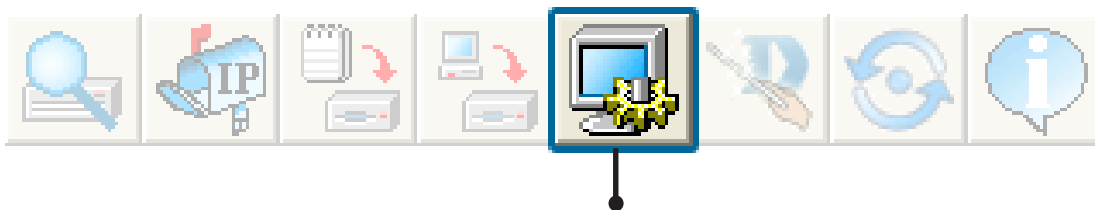
You can upgrade the firmware by clicking on this button after selecting the device(s).

To upgrade the firmware:

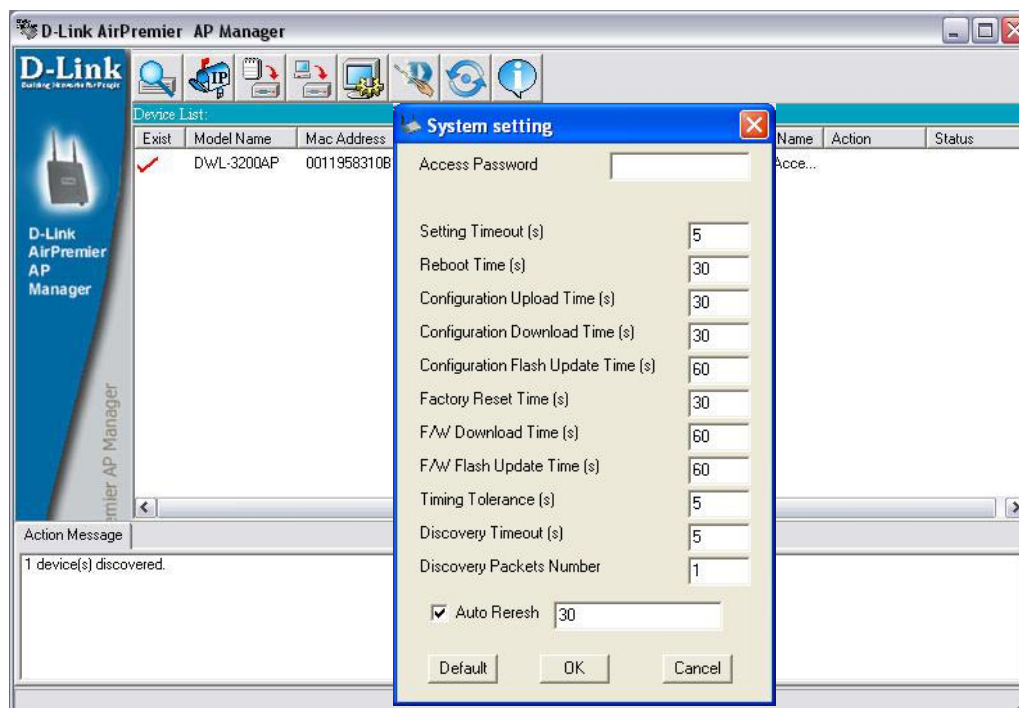
- Download the latest firmware upgrade from <http://support.dlink.com> to an easy to find location on your hard drive.
- Click on the firmware button as shown above.
- A popup window will appear. Locate the firmware upgrade file and click **Open**.

IMPORTANT! DO NOT DISCONNECT POWER FROM THE UNIT WHILE THE FIRMWARE IS BEING UPGRADED.

System Settings



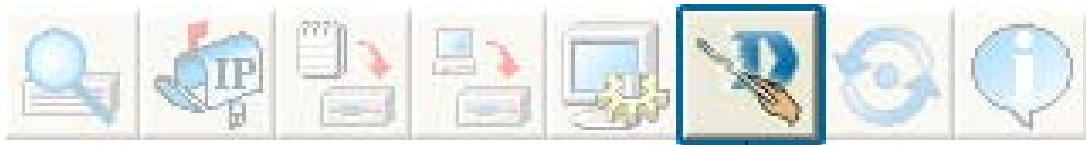
You can customize the basic System Settings for the DWL-3200AP by clicking on this button.



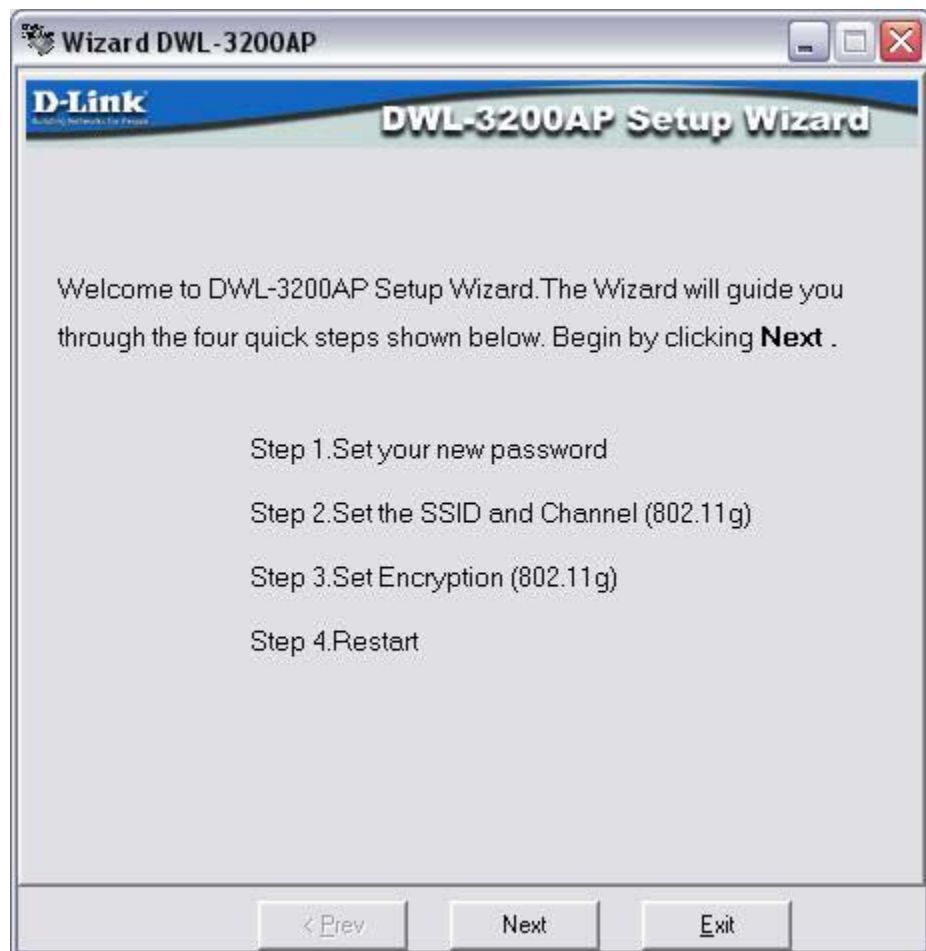
- **Access Password:** This sets the admin password for the selected device(s).
- **Auto Refresh:** This setting allows you to enable auto refreshing of the network device list. By default this option is disabled. If you choose to enable it, you must enter the refresh interval in seconds.

All other settings on this screen should be left at the default setting.

Setup Wizard

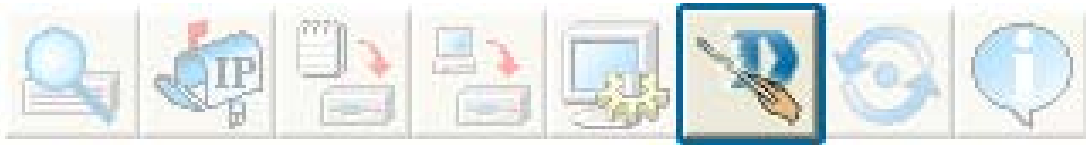


This button will launch the Setup Wizard that will guide you through device configuration.



Click **Next**.

Setup Wizard (continued)



Enter a **Password** and retype it in the **Verify Password** field.



Click **Next**.