

DHCP Reservation

If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device.

Note: This IP address must be within the DHCP IP Address Range.

Enable: Check this box to enable the reservation.

Computer Name: Enter the computer name or select from the drop-down menu and click <<.

IP Address: Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

MAC Address: Enter the MAC address of the computer or device.

Copy Your PC's MAC Address: If you want to assign an IP address to the computer you are currently on, click this button to populate the fields.

Save: Click **Save** to save your entry. You must click **Save Settings** at the top to activate your reservations.

Number of Dynamic DHCP Clients: In this section you can see what LAN devices are currently leasing IP addresses.

DHCP SERVER SETTINGS

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

Enable DHCP Server :

DHCP IP Address Range : to

DHCP Lease Time : (minutes)

ADD DHCP RESERVATION

Enable :

Computer Name : << Computer Name ▾

IP Address :

MAC Address :

DHCP RESERVATIONS LIST

Enable	Computer Name	MAC Address	IP Address

NUMBER OF DYNAMIC DHCP CLIENTS:

Hardware Address	Assigned IP	Hostname	Expires
00:1e:58:48:cc:86	192.168.0.101	dlinkpm2-niszmn	Tue Jan 8 00:00:04 2008

USB Settings

Use this section to configure your USB port. Share Port will be selected.

Note: If using the Network USB option, users will need to install the SharePort Utility into the computers to share the USB device through the router.

Network USB: Please set the Network USB Detection interval time.

Note: Please see the SharePort Manual on the CD for more information.

The screenshot shows the D-Link web interface for the DAP-1350 RT router. The top navigation bar includes 'D-Link', 'DAP-1350 // RT', and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists 'INTERNET SETTINGS', 'WIRELESS SETTINGS', 'NETWORK SETTINGS', 'USB SETTINGS', and 'LOGOUT'. The main content area is titled 'USB SETTINGS' and contains the following text: 'Use this section to configure your USB port. There are several configurations to choose from: Share Port, 3G USB Adapter .'. Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. A section titled 'USB SETTINGS' contains the instruction 'Choose the type of USB device to be plugged into the USB port.' and a dropdown menu labeled 'My plug of USB type is : Share Port'. On the right side, there is a 'Helpful Hints...' section with text: 'Device drivers and the D-Link USB Network Utility must be installed on each computer that will use the device.' and 'If you have trouble accessing the Internet through the router. Double check the settings you entered on this page and verify with your Internet Service Provider (ISP) if needed.' followed by a 'More...' link. The bottom of the page features a 'WIRELESS' section header.

Virtual Server

The DAP-1350 can be configured as a virtual server so that remote users accessing Web or FTP services via the public IP address can be automatically redirected to local servers in the LAN (Local Area Network).

The DAP-1350 firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DAP-1350 are invisible to the outside world. If you wish, you can make some of the LAN computers accessible from the Internet by enabling Virtual Server. Depending on the requested service, the DAP-1350 redirects the external service request to the appropriate server within the LAN network.

The DAP-1350 is also capable of port-redirection meaning incoming traffic to a particular port may be redirected to a different port on the server computer.

Each virtual service that is created will be listed at the bottom of the screen in the Virtual Servers List. There are pre-defined virtual services already in the table. You may use them by enabling them and assigning the server IP to use that particular virtual service.

For a list of ports for common applications, please visit http://www.dlink.com/support/faq/?prod_id=1191.

This will allow you to open ports (port forwarding).

Name: Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), your computer will be listed in the “Computer Name” drop-down menu. Select your computer and click <<.

Private Port/ Public Port: Enter the port that you want to open next to Private Port and Public Port. The private and public ports are usually the same. The public port is the port seen from the Internet side, and the private port is the port being used by the application on the computer within your local network.

Protocol Type: Select **TCP**, **UDP**, or **Both** from the drop-down menu.

Inbound Filter: Select **Allow All** (most common) or a created Inbound filter. You may create your own inbound filters in the **Advanced > Inbound Filter** page.

Schedule: The schedule of time when the Virtual Server Rule will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the **Tools > Schedules** section.

D-Link

DAP-1350 RT

SETUP ADVANCED MAINTENANCE STATUS HELP

VIRTUAL SERVER

The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Don't Save Settings

8--VIRTUAL SERVERS LIST

	Name	IP Address	Application Name	Computer Name	Port	Traffic Type
<input type="checkbox"/>		0.0.0.0	<< Application Name	<< Computer Name	Public 0	Protocol TCP
<input type="checkbox"/>		0.0.0.0	<< Application Name	<< Computer Name	Private 0	6
<input type="checkbox"/>		0.0.0.0	<< Application Name	<< Computer Name	Public 0	Protocol TCP
<input type="checkbox"/>		0.0.0.0	<< Application Name	<< Computer Name	Private 0	6
<input type="checkbox"/>		0.0.0.0	<< Application Name	<< Computer Name	Public 0	Protocol TCP

Helpful Hints...

Check the **Application Name** drop down menu for a list of predefined server types. If you select one of the predefined server types, click the arrow button next to the drop down menu to fill out the corresponding field.

You can select a computer from the list of DHCP clients in the **Computer Name** drop down menu, or you can manually enter the IP address of the computer at which you would like to open the specified port.

More...

Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DAP-1350. If you need to run applications that require multiple connections, specify the port normally associated with an application in the “Trigger Port” field, select the protocol type as TCP or UDP, then enter the firewall (public) ports associated with the trigger port to open them for inbound traffic.

The DAP-1350 provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

Name: Enter a name for the rule. You may select a pre-defined application from the drop-down menu and click <<.

Trigger: This is the port used to trigger the application. It can be either a single port or a range of ports.

Traffic Type: Select the protocol of the trigger port (TCP, UDP, or Both).

Firewall: This is the port number on the Internet side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

Traffic Type: Select the protocol of the firewall port (TCP, UDP, or Both).

D-Link

DAP-1350 // RT

SETUP ADVANCED MAINTENANCE STATUS HELP

APPLICATION RULES

This option is used to open single or multiple ports on your router when the router senses data sent to the Internet on a "trigger" port or port range. Special Applications rules apply to all computers on your internal network.

Save Settings Don't Save Settings

8 -- APPLICATION RULES

	Name	Application	Trigger	Traffic Type
<input type="checkbox"/>	<input type="text"/>	<< Application Name	<input type="text"/>	TCP
			Firewall	TCP
<input type="checkbox"/>	<input type="text"/>	<< Application Name	<input type="text"/>	TCP
			Firewall	TCP
<input type="checkbox"/>	<input type="text"/>	<< Application Name	<input type="text"/>	TCP
			Firewall	TCP
<input type="checkbox"/>	<input type="text"/>	<< Application Name	<input type="text"/>	TCP
			Firewall	TCP
<input type="checkbox"/>	<input type="text"/>	<< Application Name	<input type="text"/>	TCP
			Firewall	TCP

Helpful Hints...

Use this feature if you are trying to execute one of the listed network applications and it is not communicating as expected.

Check the **Application Name** drop down menu for a list of predefined applications. If you select one of the predefined applications, click the arrow button next to the drop down menu to fill out the corresponding field.

[More...](#)

MAC Address Filter

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the Network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router.

Configure MAC Filtering: Select Turn MAC Filtering Off, allow MAC addresses listed below, or deny MAC addresses listed below from the drop-down menu.

MAC Address: Enter the MAC address you would like to filter. To find the MAC address on a computer, please refer to the Networking Basics section in this manual.

DHCP Client: Select a DHCP client from the drop-down menu and click << to copy that MAC Address.

The screenshot shows the D-Link web interface for the DAP-1350 RT. The top navigation bar includes 'D-Link' and tabs for 'DAP-1350 // RT', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration sections: VIRTUAL SERVER, APPLICATION RULES, MAC ADDRESS FILTER (selected), WEBSITE FILTER, FIREWALL SETTINGS, ADVANCED WIRELESS, WI-FI PROTECTED SETUP, UPNP SETTINGS, GUEST ZONE, DMZ, and LOGOUT.

The main content area is titled 'MAC ADDRESS FILTER' and contains the following sections:

- MAC ADDRESS FILTER:** A message states, 'The DAP-1350 can be setup to deny or only allow access to wireless clients with the listed MAC addresses.' Below this are two buttons: 'Save Settings' and 'Don't Save Settings'.
- WIRELESS ACCESS SETTINGS:** A message says, 'Use the client's MAC Address to authorize network access through the Router.' It includes:
 - 'MAC Address Filter :' with a dropdown menu set to 'Disable'.
 - 'MAC Address :' with five input fields for hexadecimal digits and a 'Clear' button.
 - 'Connected PCs :' with a 'Computer Name' dropdown and a 'done' button.
- MAC FILTER LIST:** A table with one row containing a 'MAC Address' field and 'Edit' and 'Del' buttons.

On the right side, there is a 'Helpful Hints...' section with two sub-sections:

- Wireless Access Settings:** 'Create a list of MAC addresses that you would either like to accept or reject access to your network.'
- Connected PCs:** 'It will show the MAC address of all connected STAs. You can select what you want and click "done". Then the MAC address will show into "MAC address" part automatically.'

The bottom of the page features a 'WIRELESS' section header.

Website Filters

Website Filters are used to deny LAN computers from accessing specific web sites by the URL or domain. A URL is a specially formatted text string that defines a location on the Internet. If any part of the URL contains the blocked word, the site will not be accessible and the web page will not display. To use this feature, enter the text string to be blocked and click **Save Settings**. The text to be blocked will appear in the list. To delete the text, click **Clear the List Below**.

Website URL/ Domain: Enter the keywords or URLs that you want to block (or allow). Any URL with the keyword in it will be blocked.

The screenshot shows the D-Link DAP-1350 RT web interface. The top navigation bar includes 'D-Link' logo and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'WEBSITE FILTER' selected. The main content area is titled 'WEBSITE FILTER' and contains the following elements:

- A description: "The Website Filter option allows you to set up a list of Web sites you would like to allow or deny through your network. To use this feature, you must also select the 'Apply Web Filter' checkbox in the Access Control section."
- Two buttons: "Save Settings" and "Don't Save Settings".
- A section titled "40 -- WEBSITE FILTERING RULES" with a sub-header "Configure Website Filter below:".
- A dropdown menu set to "DENY computers access to ONLY these sites".
- A "Clear the list below..." button.
- A table with the header "Website URL/Domain" and three empty rows for input.

On the right side of the interface, there is a "Helpful Hints..." section with the text: "Create a list of Web Sites to which you would like to deny or allow through the network." and a "More..." link.

Firewall Settings

A firewall protects your network from the outside world. The D-Link DAP-1350 offers a firewall type functionality. The SPI feature helps prevent cyber attacks. Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ. DMZ is short for Demilitarized Zone. This option will expose the chosen computer completely to the outside world.

Enable SPI: SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol.

NAT Endpoint Filtering: Select one of the following for TCP and UDP ports:
Endpoint Independent - Any incoming traffic sent to an open port will be forwarded to the application that opened the port. The port will close if idle for 5 minutes.

Address Restricted - Incoming traffic must match the IP address of the outgoing connection.

Address + Port Restriction - Incoming traffic must match the IP address and port of the outgoing connection.

The screenshot displays the D-Link web interface for the DAP-1350 RT. The 'ADVANCED' tab is active, and the 'FIREWALL SETTINGS' section is expanded. The 'Enable SPI' checkbox is checked. Under 'NAT ENDPOINT FILTERING', 'UDP Endpoint Filtering' is set to 'Address Restricted' and 'TCP Endpoint Filtering' is set to 'Port And Address Restricted'. The 'ANTI-SPOOF CHECKING' section shows 'Enable anti-spoof checking' is unchecked. The interface also includes a 'Helpful Hints...' section on the right side.

Advanced Wireless Settings

Transmit Power: Set the transmit power of the antennas.

Note: Transmit power is regulated by international standard. Users are forbidden to change its maximum limit.

Beacon Period: Beacons are packets sent by an Access Point to synchronize a wireless network. Specify a value. 100 is the default setting and is recommended.

DTIM Interval: (Delivery Traffic Indication Message) 1 is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

RTS Threshold: This value should remain at its default setting of 2346. If inconsistent data flow is a problem, only a minor modification should be made.

Fragmentation Threshold: The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission. 2346 is the default setting.

WMM Function: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Short GI: Check this box to reduce the guard interval time therefore increasing the data capacity. However, it's less reliable and may create higher data loss.

D-Link

DAP-1350 // RT

SETUP ADVANCED MAINTENANCE STATUS HELP

ADVANCED WIRELESS

If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.

Save Settings Don't Save Settings

ADVANCED WIRELESS SETTINGS

Transmit Power : 100% ▾

Beacon Period : 100 (20..1024)

DTIM Interval : 1 (1..255)

RTS Threshold : 2346 (1..2347)

Fragmentation Threshold : 2346 (256..2346)

WMM Enable :

Short GI :

IGMP Snooping :

WLAN Partition :

WIRELESS

Helpful Hints...

It is recommended that you leave these parameters at their default values. Adjusting them could limit the performance of your wireless network.

Enabling WMM can help control latency and jitter when transmitting multimedia content over a wireless connection.

[More...](#)

Wi-Fi Protected Setup

Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the “Initial setup” as well as the “Add New Device” processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufactures. The process is just as easy, as depressing a button for the Push-Button Method or correctly entering the 8-digit code for the Pin-Code Method. The time reduction in setup and ease of use are quite beneficial, while the highest wireless Security setting of WPA2 is automatically used.

Enable: Enable the Wi-Fi Protected Setup feature.

Lock Wireless Security Settings: Locking the wireless security settings prevents the settings from being changed by the Wi-Fi Protected Setup feature of the router. Devices can still be added to the network using Wi-Fi Protected Setup. However, the settings of the network will not change once this option is checked.

PIN Settings: A PIN is a unique number that can be used to add the router to an existing network or to create a new network. The default PIN may be printed on the bottom of the router. For extra security, a new PIN can be generated. You can restore the default PIN at any time. Only the Administrator (“admin” account) can change or reset the PIN.

Current PIN: Shows the current value of the router’s PIN.

Reset PIN to Default: Restore the default PIN of the router.

Generate New PIN: Create a random number that is a valid PIN. This becomes the router’s PIN. You can then copy this PIN to the user interface of the registrar.

The screenshot displays the D-Link router's configuration interface for Wi-Fi Protected Setup. The main content area is divided into three sections:

- WI-FI PROTECTED SETUP:** This section includes an 'Enable' checkbox which is checked. Below it is a 'Reset to Unconfigured' button.
- PIN SETTINGS:** This section shows the 'Current PIN' as 97730668. It includes two buttons: 'Reset PIN to Default' and 'Generate New PIN'.
- ADD WIRELESS STATION:** This section contains a single button labeled 'Add Wireless Device With WPS'.

On the right side of the interface, there is a 'Helpful Hints...' section with the following text: 'Enable if other wireless devices you wish to include in the local network support Wi-Fi Protected Setup. Only "Admin" account can change security settings. Click Add Wireless Device Wizard to use Wi-Fi Protected Setup to add wireless devices to the wireless network. More...'.

Add Wireless Station: This Wizard helps you add wireless devices to the wireless network.

The wizard will either display the wireless network settings to guide you through manual configuration, prompt you to enter the PIN for the device, or ask you to press the configuration button on the device. If the device supports Wi-Fi Protected Setup and has a configuration button, you can add it to the network by pressing the configuration button on the device and then the on the router within 60 seconds. The status LED on the router will flash three times if the device has been successfully added to the network.

There are several ways to add a wireless device to your network. A “registrar” controls access to the wireless network. A registrar only allows devices onto the wireless network if you have entered the PIN, or pressed a special Wi-Fi Protected Setup button on the device. The router acts as a registrar for the network, although other devices may act as a registrar as well.

Add Wireless Device Wizard: Start the wizard.

UPnP Settings

UPnP Settings: To use the Universal Plug and Play (UPnP™) feature click on **Enabled**. UPnP provides compatibility with networking equipment, software and peripherals.

The screenshot shows the D-Link web interface for the DAP-1350 RT. The top navigation bar includes 'DAP-1350 // RT', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'UPNP SETTINGS' selected. The main content area is titled 'UPNP SETTINGS' and contains the following text: 'Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. Further down, there is a checkbox labeled 'Enable UPnP' which is checked. On the right side, there is a 'Helpful Hints...' section with the text: 'UPnP helps other UPnP LAN hosts interoperate with the router. Leave the UPnP option enabled as long as the LAN has other UPnP applications.' and a 'More...' link. The bottom of the page features a 'WIRELESS' section header.

Guest Zone

The Guest Zone feature will allow you to create temporary zones that can be used by guests to access the Internet. These zones will be separate from your main wireless network.

Enable Guest Zone: Check to enable the Guest Zone feature.

Schedule: The schedule of time when the Guest Zone will be active. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the **Tools > Schedules** section.

Wireless Network Name: Enter a wireless network name (SSID) that is different from your main wireless network.

Enable Routing Between Zones: Check to allow network connectivity between the different zones created.

Security Mode: Select the type of security or encryption you would like to enable for the guest zone.

The screenshot displays the D-Link router's configuration interface for the Guest Zone feature. The top navigation bar includes 'D-Link', 'DAP-1350 // RT', and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration sections, with 'GUEST ZONE' highlighted. The main content area is divided into two sections:

- GUEST ZONE:** Contains the text: "Use this section to configure the guest zone settings of your router. The guest zone provide a separate network zone for guest to access Internet." Below this text are two buttons: "Save Settings" and "Don't Save Settings".
- GUEST ZONE SELECTION:** Contains the following settings:
 - Enable Guest Zone:** A checkbox that is currently unchecked, followed by a dropdown menu set to "Always" and an "Add New Schedule" button.
 - Wireless Band:** Set to "2.4GHz Band".
 - Wireless Network Name:** A text input field containing "dlink_guest" with a note "(Also called the SSID)".
 - Enable Routing Between Zones:** A checkbox that is currently unchecked.

On the right side of the interface, there is a "Helpful Hints..." section with a "More..." link.

DMZ

This feature allows you to set up a DMZ (Demilitarized Zone) host. If you have a client PC that cannot run Internet applications properly from behind the DAP-1350, then you can set the client up for unrestricted Internet access. The DMZ allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the computer that will be the DMZ host. Adding a client to the DMZ may expose your local network to a variety of security risks, so only use this option as a last resort.

Enable DMZ: Check this box to enable DMZ.

DMZ Host IP Address: Enter the IP address of the computer you would like to open all ports to. You can select a computer from the Computer Name drop-down menu and click << to enter the computer name into the DMZ Host IP Address field.

The screenshot shows the D-Link web interface for the DAP-1350 RT. The top navigation bar includes 'D-Link' and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'DMZ' selected. The main content area is titled 'DMZ SETTINGS' and contains the following text:

The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access.

Note: Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.

Buttons for 'Save Settings' and 'Don't Save Settings' are visible.

Below the settings is the 'DMZ HOST' section, which includes:

- Enable DMZ :
- DMZ IP Address : <<

On the right side, there is a 'Helpful Hints...' section with the following text:

Enable the DMZ option only as a last resort. If you are having trouble using an application from a computer behind the router, first try opening ports associated with the application in the [Virtual Server](#) sections.

A 'More...' link is also present.

Administrator Settings

This page will allow you to change the Administrator and User passwords. You can also enable Remote Management. There are two accounts that can access the management interface through the web browser. The accounts are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes. Only the admin account has the ability to change both admin and user account passwords.

Admin Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

User Password: Enter the new password for the User login. If you login as the User, you can only see the settings, but cannot change them.

Gateway Name: Enter a name for the DAP-1350 router.

Enable Graphical Authentication: Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.

Enable HTTPS Server: Check to enable HTTPS to connect to the router securely.

Remote Management: Remote management allows the DAP-1350 to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform Administrator tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host.

Remote Admin Port: The port number used to access the DAP-1350.

The screenshot shows the D-Link web interface for the DAP-1350 RT router. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The main content area is titled 'ADMINISTRATOR SETTINGS' and contains the following sections:

- ADMINISTRATOR SETTINGS:** A text box explaining that 'admin' and 'user' accounts can access the management interface. The admin has read/write access and can change passwords, while the user has read-only access. It notes that by default, there is no password configured and it is highly recommended to create a password for security. Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'.
- ADMIN PASSWORD:** A section titled 'Please enter the same password into both boxes, for confirmation.' It contains two input fields labeled 'Password' and 'Verify Password'.
- USER PASSWORD:** A section titled 'Please enter the same password into both boxes, for confirmation.' It contains two input fields labeled 'Password' and 'Verify Password'.
- ADMINISTRATION:** A section with several checkboxes and a text input field:
 - Enable Graphical Authentication:
 - Enable HTTPS Server:
 - Enable Remote Management:
 - Remote Admin Port:

On the right side of the interface, there is a 'Helpful Hints...' section with the following text: 'For security reasons, it is recommended that you change the password for the Admin and User accounts. Be sure to write down the new and passwords to avoid having to reset the router in case they are forgotten. Enabling Remote Management, allows you or others to change the router configuration from a computer on the Internet. Choose a port to open for remote management. More...'

Time Settings

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the Time Server. Daylight Saving can also be configured to automatically adjust the time when needed.

Time Zone: Select the Time Zone from the drop-down menu.

Daylight Saving: To select Daylight Saving time manually, select enabled or disabled, and enter a start date and an end date for daylight saving time.

Enable NTP Server: NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Enter the NTP server or select one from the drop-down menu.

Manual: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second and then click **Set Time**. You can also click **Copy Your Computer's Time Settings**.

D-Link

DAP-1350 // RT SETUP ADVANCED MAINTENANCE STATUS HELP

TIME

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

Save Settings Don't Save Settings

TIME CONFIGURATION

Current Router Time : Jan/01/2008 00:52:12

Time Zone : (GMT-08:00) Pacific Time (US/Canada), Tijuana

Enable Daylight Saving :

Daylight Saving Dates :

DST start	Month	Week	Day of Week	Time
Mar	3rd	Sun	2 am	
Nov	2nd	Sun	2 am	

AUTOMATIC TIME CONFIGURATION

Enable NTP Server :

NTP Server Used : << Select NTP Server

SET THE DATE AND TIME MANUALLY

Date And Time : Year 2008 Month Jan Day 01

Hour 00 Minute 00 Second 00

Copy Your Computer's Time Settings

WIRELESS

Helpful Hints...

Good timekeeping is important for accurate logs and scheduled firewall rules.

More...

SysLog

The Broadband Router keeps a running log of events and activities occurring on the Router. You may send these logs to a SysLog server on your network.

Enable Logging to SysLog Server: Check this box to send the router logs to a SysLog Server.

SysLog Server IP Address: The address of the SysLog server that will be used to send the logs. You may also select your computer from the drop-down menu (only if receiving an IP address from the router via DHCP).

The screenshot shows the D-Link web interface for a DAP-1350 RT router. The top navigation bar includes 'D-Link', 'DAP-1350 RT', and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SYSLOG' page is active, displaying the following content:

- ADMIN** (selected)
- TIME**
- SYSLOG** (current page)
- SYSTEM**
- FIRMWARE**
- SCHEDULES**
- LOGOUT**

The main content area is titled 'SYSLOG' and contains the following text and controls:

The SysLog options allow you to send log information to a SysLog Server.

Save Settings Don't Save Settings

SYSLOG SETTINGS

Enable Logging To Syslog Server :

Helpful Hints...
A System Logger (syslog) is a server that collects in one place the logs from different sources. If the LAN includes a syslog server, you can use this option to send the router's logs to that server.
More...

At the bottom of the interface, there is a 'WIRELESS' section.

System Settings

Save Settings to Local Hard Drive: Use this option to save the current router configuration settings to a file on the hard disk of the computer you are using. First, click the **Save** button. You will then see a file dialog, where you can select a location and file name for the settings.

Load Settings from Local Hard Drive: Use this option to load previously saved router configuration settings. First, use the Browse control to find a previously save file of configuration settings. Then, click the **Restore Configuration from File** button to transfer those settings to the router.

Restore to Factory Default Settings: This option will restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the **Save** button above.

Reboot Device: Click to reboot the router.

The screenshot shows the D-Link web interface for the DAP-1350 RT. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists menu items: ADMIN, TIME, SYSLOG, SYSTEM, FIRMWARE, SCHEDULES, and LOGOUT. The main content area is titled 'SYSTEM SETTINGS' and contains the following options:

- Save Settings To Local Hard Drive :** Save Configuration
- Load Settings From Local Hard Drive :** Browse... Restore Configuration from File
- Restore To Factory Default Settings :** Restore Factory Defaults
Restore all settings to the factory defaults.
- Reboot The Device :** Reboot the Device

The right sidebar, titled 'Helpful Hints...', provides instructions on saving and restoring configurations. It states: 'Once your router is configured the way you want it, you can save the configuration settings to a configuration file. You might need this file so that you can load your configuration later in the event that the router's default settings are restored. To save the configuration, click the Save Configuration button. More...'

Firmware Update

You can upgrade the firmware of the Router here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support site for firmware updates at <http://www.dlink.com/support>. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware Upgrade: Click on **Check Online Now for Latest Firmware Version** to find out if there is an updated firmware; if so, download the new firmware to your hard drive.

Browse: After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

Notifications Options: Check **Automatically Check Online for Latest Firmware Version** to have the router check automatically to see if there is a new firmware upgrade.

Check **Email Notification of Newer Firmware Version** to have the router send an e-mail when there is a new firmware available.

The screenshot shows the D-Link router's web interface. At the top, the D-Link logo is displayed. Below it, a navigation menu includes 'DAP-1350 // RT', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'MAINTENANCE' tab is selected, and the 'FIRMWARE' sub-tab is active. The main content area is divided into three sections: 'FIRMWARE', 'FIRMWARE INFORMATION', and 'FIRMWARE UPGRADE'. The 'FIRMWARE' section contains a message about new firmware availability and a warning not to update over a wireless network. The 'FIRMWARE INFORMATION' section shows the current firmware version (1.00) and date (Mon, 10 Aug 2009). The 'FIRMWARE UPGRADE' section includes a note about factory defaults, instructions for upgrading, and an 'Upload' form with a 'Browse...' button. A similar section for 'LANGUAGE PACKAGE INFORMATION' is also visible at the bottom.

DAP-1350 // RT	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	FIRMWARE				Helpful Hints... Firmware updates are released periodically to improve the functionality of your router and to add features. If you run into a problem with a specific feature of the router, check if updated firmware is available for your router. More...
TIME	There may be new firmware for your DAP-1350 to improve functionality and performance. Click here to check for an upgrade on our support site. After you have download the new firmware file from our support site, click the Browse button below to find the firmware file on your local hard drive. Click the Save Settings button to update the firmware on the DAP-1350. Do not update firmware through wireless network!!				
SYSLOG	FIRMWARE INFORMATION				
SYSTEM	Current Firmware Version : 1.00 Current Firmware Date : Mon, 10 Aug 2009				
FIRMWARE	FIRMWARE UPGRADE				
SCHEDULES	Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration from the Maintenance -> System screen To upgrade the firmware, your PC must have a wired connection to the access point. Enter the name of the firmware upgrade file, and click on the Upload button. Upload : <input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Upload"/>				
LOGOUT	LANGUAGE PACKAGE INFORMATION				
	Note: Update language package will make changes language display on web page. Before performing an upgrade, be sure to do it! To upgrade the language package, your PC must have a wired connection to the access point. Enter the name of the language package upgrade file, and click on the Upload button. Upload : <input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Upload"/>				
	WIRELESS				

Schedules

Name: Enter a name for your new schedule.

Days: Select a day, a range of days, or All Week to include every day.

Time: Check **All Day - 24hrs** or enter a start and end time for your schedule.

Save: Click **Save** to save your schedule. You must click Save Settings at the top for your schedules to go into effect.

Schedule Rules The list of schedules will be listed here. Click the **List:** **Edit** icon to make changes or click the **Delete** icon to remove the schedule.

The screenshot shows the D-Link DAP-1350 RT web interface. The top navigation bar includes 'DAP-1350 // RT', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar contains 'ADMIN', 'TIME', 'SYSLOG', 'SYSTEM', 'FIRMWARE', 'SCHEDULES', and 'LOGOUT'. The main content area is titled 'SCHEDULES' and contains the following sections:

- SCHEDULES**: A header section with a description: "The Schedule configuration option is used to manage schedule rules for various firewall and parental control features."
- ADD SCHEDULE RULE**: A form for creating a new schedule rule. It includes:
 - Name**: A text input field.
 - Day(s)**: Radio buttons for 'All Week' and 'Select Day(s)'. Under 'Select Day(s)', there are checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat.
 - All Day - 24 hrs**: A checkbox.
 - Start Time**: Two input fields for hour and minute, and a dropdown for AM/PM. Example: 12 : 00 AM (hour:minute, 12 hour time).
 - End Time**: Two input fields for hour and minute, and a dropdown for AM/PM. Example: 12 : 00 AM (hour:minute, 12 hour time).
 - Save** and **Clear** buttons.
- SCHEDULE RULES LIST**: A table with columns for Name, Day(s), and Time Frame.

The right sidebar contains 'Helpful Hints...' with the following text:

Schedules are used with a number of other features to define when those features are in effect.

Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called "After School".

Click **Save** to add a completed schedule to the list below.

Click the **Edit** icon to change an existing schedule.

Click the **Delete** icon to permanently delete a schedule.

[More...](#)

Device Information

This page displays the current information for the DAP-1350. It will display the LAN, WAN (Internet), and Wireless information.

If your Internet connection is set up for a Dynamic IP address then a **Release** button and a **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP.

If your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

General: Displays the router's time and firmware version.

WAN: Displays the MAC address and the public IP settings for the router.

LAN: Displays the MAC address and the private (local) IP settings for the router.

Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

LAN Computers: Displays computers and devices that are connected to the router via Ethernet and that are receiving an IP address assigned by the router (DHCP).

D-Link

DAP-1350 // RT SETUP ADVANCED MAINTENANCE STATUS HELP

DEVICE INFORMATION

All of your wireless and network connection details are displayed on this page. The firmware version is also displayed here.

GENERAL

Time : Jan/01/2008 01:48:38
 System Up Time : 0 Day, 01:49:00
 Firmware Version : 1.00, Mon, 10 Aug 2009

WAN

Connection Type : DHCP client
 Cable Status : Connected
 Network Status : Connected

Connection Up Time : 0 Day, 01:48:44
 MAC Address : 00:18:e7:6a:20:ff
 IP Address : 67.130.140.148
 Subnet Mask : 255.255.255.0
 Default Gateway : 67.130.140.1
 Primary DNS Server : 67.130.140.2
 Secondary DNS Server : 192.152.81.1

LAN

MAC Address : 00:18:e7:6a:20:fe
 IP Address : 192.168.0.50
 Subnet Mask : 255.255.255.0
 DHCP Server : Enable

WIRELESS LAN

Wireless Radio : Enable
 Wireless Mode : Mixed 802.11n, 802.11g and 802.11b
 Channel Width : 20 MHz
 Channel : 10
 Wi-Fi Protected Setup : Enable / Configured

SSID List

Network Name (SSID)	Guest	MAC Address	Security Mode
dlink	No	00:18:e7:6a:23:40	Disable

LAN COMPUTERS

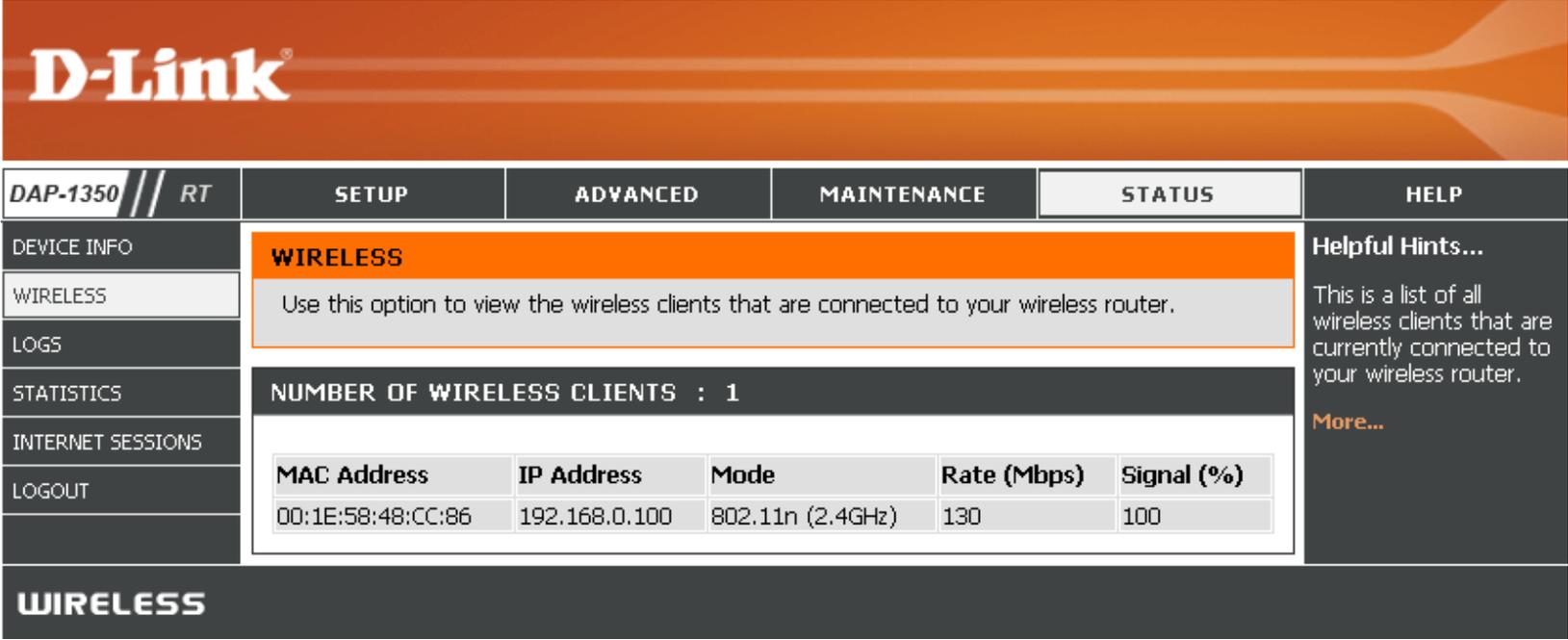
IP Address	Name(If Any)	MAC
192.168.0.100	dlinkpm2-niszmn	00:1e:58:48:cc:86

WIRELESS

Helpful Hints...
 All of your WAN and LAN connection details are displayed here.
[More...](#)

Wireless

The wireless client table displays a list of current connected wireless clients. This table also displays the connection rate and MAC address of the connected wireless clients.



The screenshot shows the D-Link web interface for a DAP-1350 RT router. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains menu items: DEVICE INFO, WIRELESS, LOGS, STATISTICS, INTERNET SESSIONS, and LOGOUT. The main content area is titled 'WIRELESS' and contains a message: 'Use this option to view the wireless clients that are connected to your wireless router.' Below this, it states 'NUMBER OF WIRELESS CLIENTS : 1'. A table lists the connected client's details:

MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)
00:1E:58:48:CC:86	192.168.0.100	802.11n (2.4GHz)	130	100

On the right side, there is a 'Helpful Hints...' section with the text: 'This is a list of all wireless clients that are currently connected to your wireless router.' and a 'More...' link. The bottom of the interface features a 'WIRELESS' header.

Logs

The router automatically logs (records) events of possible interest in its internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. The Logs option allows you to view the router logs. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

Log Options: You can select the types of messages that you want to display from the log. system activity, debug Information, attacks, dropped packets, and notice messages can be selected.

Add: Will filter the log results so that only the selected options appear.

Refresh: Updates the log details on the screen so it displays any recent activity.

Clear: Clears all of the log contents.

Save Log: This option will save the router to a log file on your computer.

D-Link

DAP-1350 // RT SETUP ADVANCED MAINTENANCE STATUS HELP

LOGS

Use this option to view the device logs. You can define what types of events you want to view and the event levels to view. This device also has internal syslog server support so you can send the log files to a computer on your network that is running a syslog utility.

LOG OPTIONS

Log Type : System Activity Debug Information Attacks
 Dropped Packets Notice

Add

LOG DETAILS

First Page Last Page Previous Next

Refresh Clear Save Log

0/0

Time	Message
------	---------

WIRELESS

Helpful Hints...
Check the log frequently to detect unauthorized network usage.
More...

Statistics

The screen below displays the Traffic Statistics. Here you can view the amount of packets that pass through the DAP-1350 on the Internet, wireless, and the LAN ports. The traffic counter will reset if the device is rebooted.

D-Link

DAP-1350 // RT SETUP ADVANCED MAINTENANCE STATUS HELP

DEVICES INFO

WIRELESS

LOGS

STATISTICS

INTERNET SESSIONS

LOGOUT

TRAFFIC STATISTICS

Traffic Statistics display Receive and Transmit packets passing through your router.

[Refresh Statistics](#) [Clear Statistics](#)

LAN STATISTICS

Sent : 20	Received : 24
TX Packets Dropped : 0	RX Packets Dropped : 0
Collisions : 0	Errors : 0

WAN STATISTICS

Sent : 33	Received : 46
TX Packets Dropped : 0	RX Packets Dropped : 0
Collisions : 0	Errors : 0

WIRELESS STATISTICS

Sent : 116	Received : 235
TX Packets Dropped : 0	RX Packets Dropped : 0
Collisions : 0	Errors : 0

Helpful Hints...

This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.

[More...](#)

WIRELESS

Internet Sessions

The Internet Sessions page displays full details of active Internet sessions through your router. An Internet session is a conversation between a program or application on a LAN-side computer and a program or application on a WAN-side computer.

Local: The IP address and, where appropriate, port number of the local application.

NAT: The port number of the LAN-side application as viewed by the WAN-side application.

Internet: The IP address and, where appropriate, port number of the application on the Internet.

Protocol: The communications protocol used for the conversation.

State: State for sessions that use the TCP protocol:

NO: None -- This entry is used as a placeholder for a future connection that may occur.

SS: SYN Sent -- One of the systems is attempting to start a connection.

EST: Established -- the connection is passing data.

FW: FIN Wait -- The client system has requested that the connection be stopped.

CW: Close Wait -- The server system has requested that the connection be stopped.

TW: Time Wait -- Waiting for a short time while a connection that was in FIN Wait is fully closed.

LA: Last ACK -- Waiting for a short time while a connection that was in Close Wait is fully closed.

CL: Closed -- The connection is no longer active but the session is being tracked in case there are any retransmitted packets still pending.

D-Link

DAP-1350 // RT

SETUP ADVANCED MAINTENANCE STATUS HELP

DEVICE INFO **INTERNET SESSIONS** Helpful Hints...

WIRELESS This page displays the full details of active internet sessions to your router. This is a list of all active conversations between WAN computers and LAN computers.

LOGS

STATISTICS

INTERNET SESSIONS

Local	Nat	Internet Settings	Protocol	State	Dir	Time-Out
219.77.195.156 :4260	4260	192.168.0.101 :4147	UDP	-	IN	68
192.168.0.101 :4147	4147	119.145.130.15 :17788	UDP	-	IN	5
219.78.149.227 :8733	8733	192.168.0.101 :4147	UDP	-	IN	69
94.194.226.253 :14917	14917	192.168.0.101 :4147	UDP	-	IN	37
75.6.228.232 :49158	49158	192.168.0.101 :4147	UDP	-	IN	51
192.168.0.101 :4147	4147	75.22.69.114 :4747	UDP	-	IN	63
222.73.25.118 :17788	17788	192.168.0.101 :4147	UDP	-	IN	12
192.168.0.101 :4147	4147	208.120.72.146 :2967	UDP	-	IN	58
121.9.13.20 :17788	17788	192.168.0.101 :4147	UDP	-	IN	37
113.254.188.21 :3183	3183	192.168.0.101 :4147	UDP	-	IN	62

LOGOUT

WIRELESS

More...

Dir: The direction of initiation of the conversation:

Out - Initiated from LAN to WAN.

In - Initiated from WAN to LAN.

Priority: The preference given to outbound packets of this conversation by the QoS Engine logic. Smaller numbers represent higher priority.

Time Out: The number of seconds of idle time until the router considers the session terminated. The initial value of Time Out depends on the type and state of the connection.

300 seconds - UDP connections.

240 seconds - Reset or closed TCP connections. The connection does not close instantly so that lingering packets can pass or the connection can be re-established.

7800 seconds - Established or closing TCP connections.