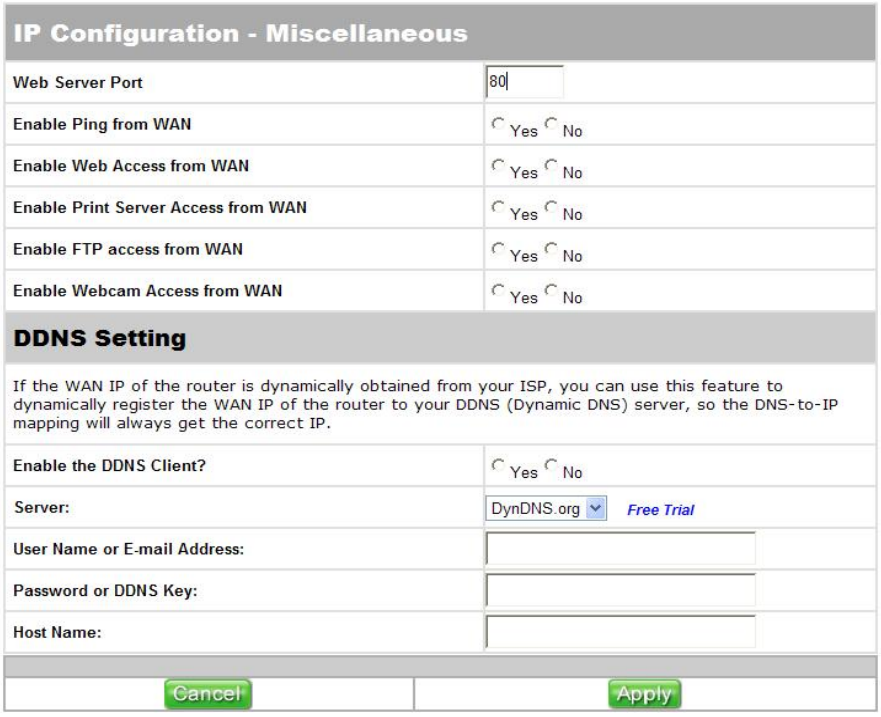
Miscellaneous includes web server port setting, access control from WAN and DDNS setting. You can enable or disable some services when clients access from WAN.



Enable the DDNS Client:

Select Yes to enable or No to disable the DDNS client.

DDNS Server:

Select a DDNS server from the drop-down list or click Free Trial to link up a free trial address.

User Name or E-mail Address:

User name or e-mail address is used as an identity to login to some DDNS services.

Password or DDNS Key:

Password or DDNS key is used to login to some DDNS services.

Host Name:

Input the host name you have registered to Dynamic-DNS website.

Apply/Cancel:

Click Apply to save the settings or click Cancel to aboard.

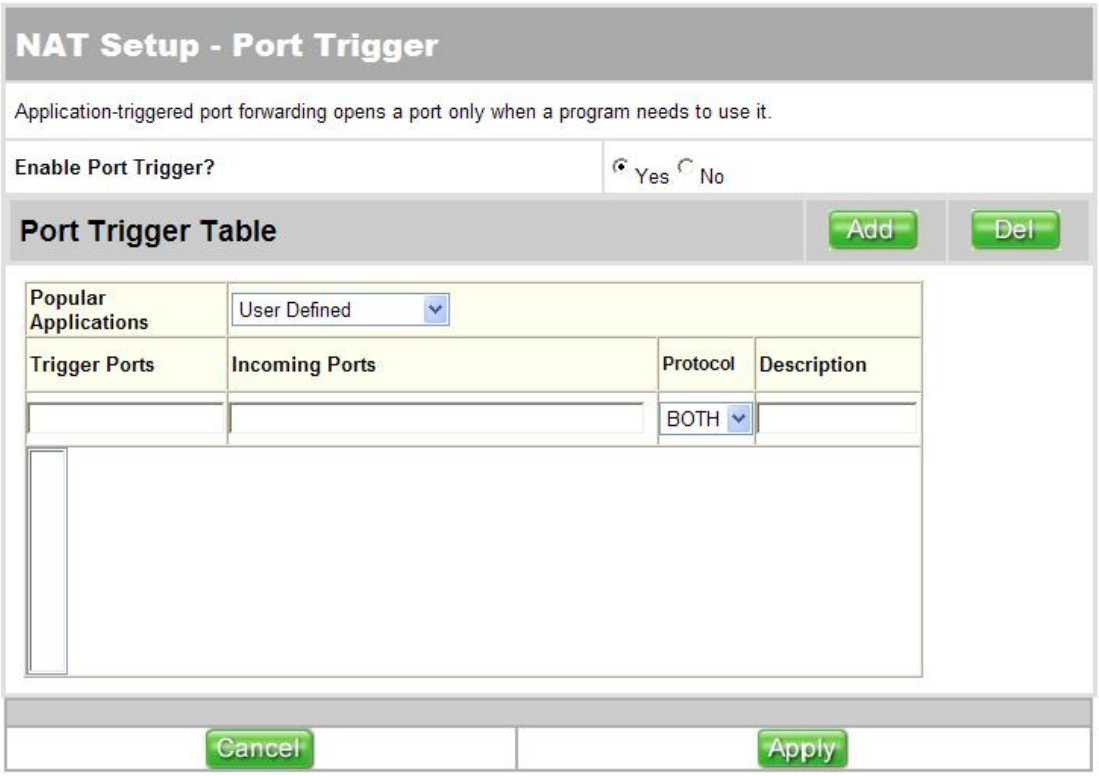
4.3 NAT Setup

NAT Setup contains three functional items including Port Trigger, Virtual Server and Virtual DMZ.

4.3.1 Port Trigger

Application-triggered port forwarding opens a port only when a program needs to use it. You can set a trigger port to open an incoming port. When trigger ports are used, the system opens the specified incoming ports.

To setup port trigger, follow the instructions below.



Enable Port Trigger:

Select Yes to enable or No to disable port trigger.

Popular Applications:

The drop-down list has listed some popular applications, you can get the port number of an application by selecting from the drop-down list. Or you can also select User Defined from the list

and input the port number by yourself.

Trigger Ports:

Input the port number that will trigger the action. If this port was active by a program, the system will open the corresponding incoming port.

Incoming Ports:

Input the port number that will be open if the trigger port is active.

Protocol:

Select from the list whether this rule should be applied to TCP or UDP or both.

Description:

You can input some description of this rule.

Add/Del:

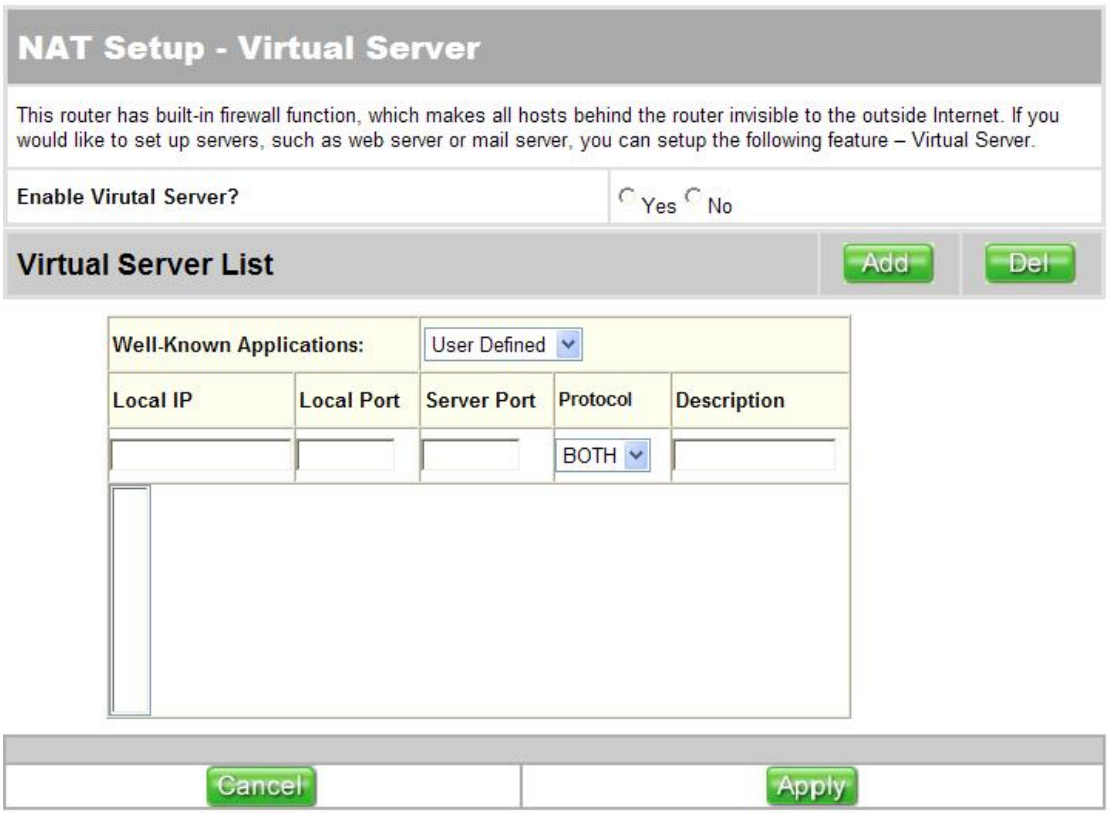
After fill up all your requirement of a rule, click Add to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click Del. Then the high-lighted rule will be removed from the list.

Apply/Cancel:

Click Apply to save the settings or click Cancel to aboard.

4.3.2 Virtual Server

The hosts behind a firewall will be invisible from the outside. If you would like to setup a server such as web server or mail server behind the firewall, you will need to setup a virtual server. You can follow the instructions to setup a virtual server.



Enable Virtual Server:

Select Yes to enable or No to disable virtual server.

Well-Know Applications:

The drop-down list has listed some well-know applications, you can get the port number of an application by selecting from the drop-down list. Or you can also select User Defined from the list and input the local port number and server port number by yourself.

Local IP:

Input the local server IP. For example, the IP address of your web server on you network.

Local Port:

Input the port number. For example, port 80 for your web server.

Server Port:

Input the port number that WAN IP takes for this rule. It means all the connections from the Internet to your WAN IP on this port will be redirected to the local IP on the local port you have set.

Protocol:

Select from the list whether this rule should be applied to TCP or UDP or both.

Description:

You can input some description of this service.

Add/Del:

After fill up all your requirement of a rule, click Add to add the rule to

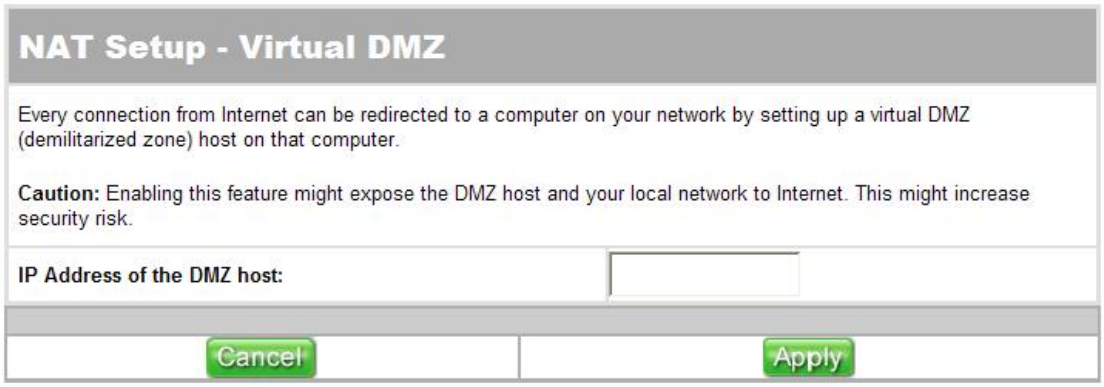
the rule table. If you want to delete a rule from the table, select the rule and click Del. Then the high-lighted rule will be removed from the list.

Apply/Cancel:

Click Apply to save the settings or click Cancel to aboard.

4.3.3 Virtual DMZ

You can redirect every connection from the Internet to a computer on your network by setting up a virtual DMZ. Every connection your WAN IP form the Internet will be redirected to the specified IP address on your network. However, this could also increase the security risk of your network. Follow the instructions to setup a virtual DMZ.



IP Address of the DMZ host:

Input the host IP address where you want all the connections to your WAN IP to be redirected to.

Apply/Cancel:

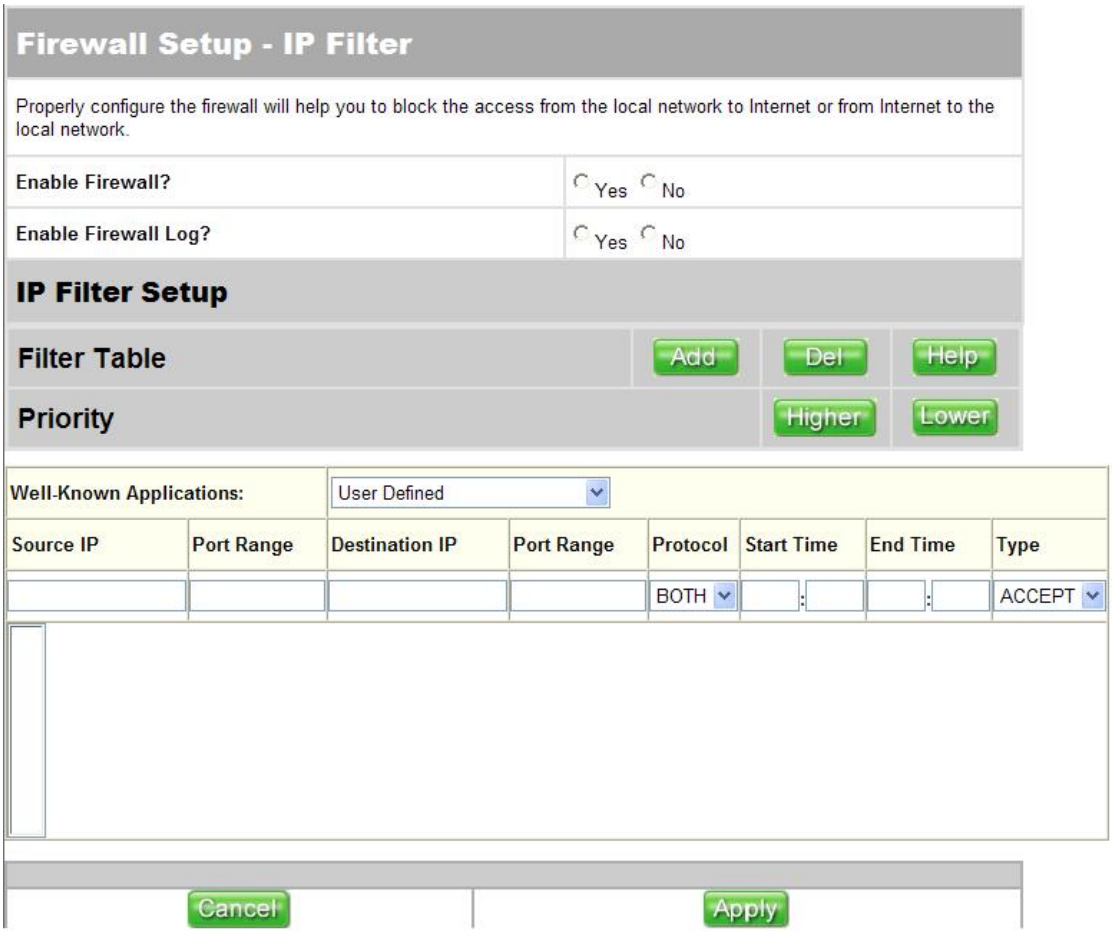
Click Apply to save the settings or click Cancel to aboard.

4.4 Firewall Setup

There are three ways to block connections. Connections can be blocked by their IP address, MAC address or URL.

4.4.1 IP Filter

IP Filter blocks connections according to their IP addresses and ports. You can also set start time and end time if you only want to apply the filter rules during a specific period in a day.



Enable Firewall:
Select Yes to enable or No to disable firewall.
Enable Firewall Log:
Select Yes to enable or No to disable firewall log.
Source IP and Port Range:
Input the source IP address and port range for the filtering rule.
Destination IP and Port Range:
Input the destination IP address and port range for the filtering rule.
Protocol:
Select from the drop-down list whether certain filter rule should

apply to TCP or UDP or both.

Start Time/End Time:

Set a period of time to drop or accept the connection.

Type:

Select from the drop-down list for dropping or accepting the connection.

Add/Del:

After fill up all your requirement of a rule, click Add to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click Del. Then the high-lighted rule will be removed from the list.

Priority:

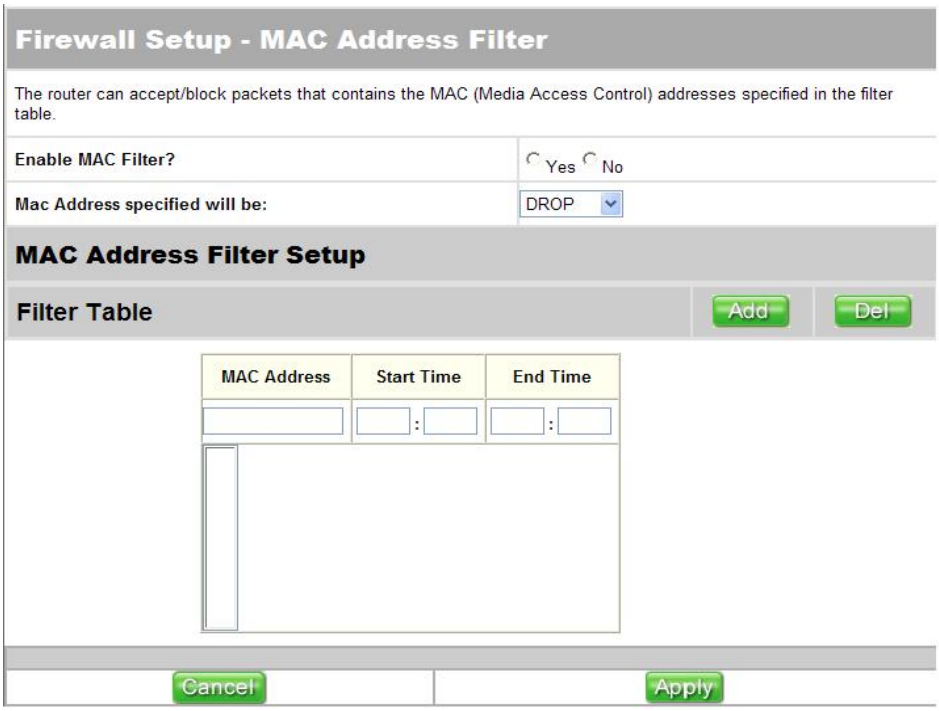
A connection is to be accepted or to be dropped is according to the first matching rule from the top of the rule table. You can change the priority of a rule by select the rule and click Higher or Lower.

Apply/Cancel:

Click Apply to save the settings or click Cancel to aboard.

4.4.2 MAC Filter

MAC filter drops or accepts a connection according to its MAC address.



Enable MAC Filter:

Select Yes to enable or No to disable MAC filter.

MAC Address specified will be:

Select DROP or ACCEPT from the list to mean all the connections to the MAC addresses on the list should be dropped or accepted.

MAC Address:

Input the MAC address that you want to apply to this rule.

Start Time/End Time:

Set a period of time to drop or accept the connection.

Add/Del:

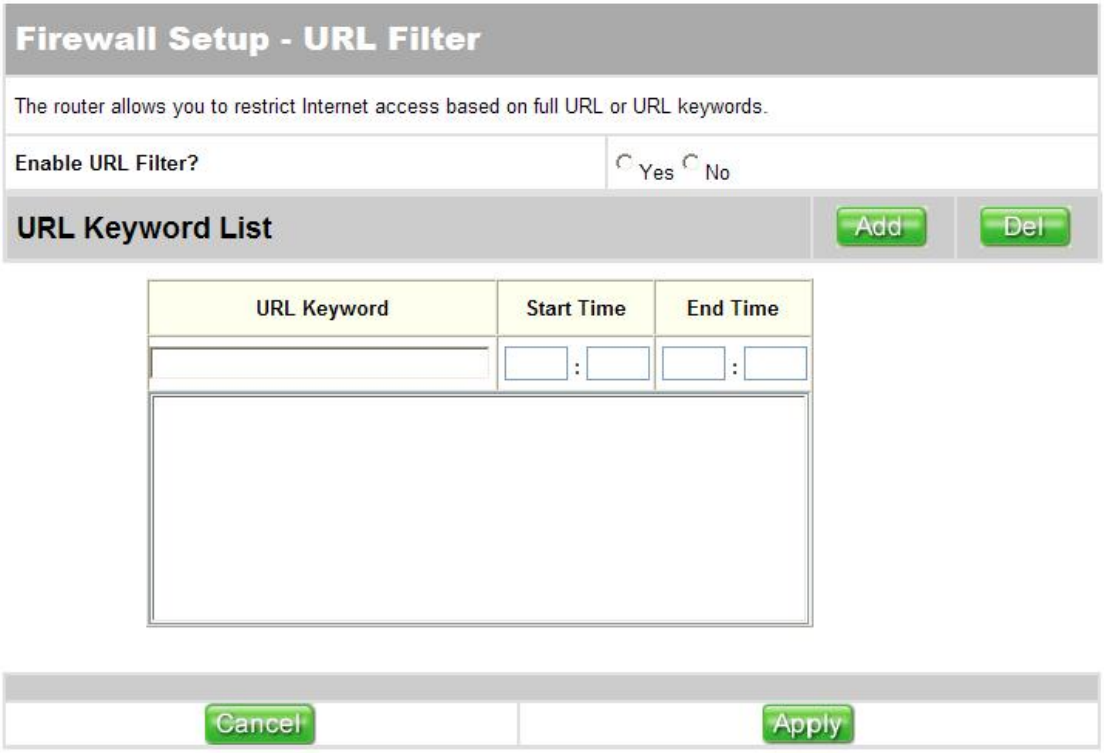
After fill up all your requirement of a rule, click Add to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click Del. Then the high-lighted rule will be removed from the list.

Apply/Cancel:

Click Apply to save the settings or click Cancel to aboard.

4.4.3 URL Filter

URL filter blocks a connection according to its URL.



Enable URL Filter:

Select Yes to enable or No to disable URL filter.

URL Keyword:

Input a full URL or a keyword of an URL. For example, input "www.abc.com.tw" will only block the URL perfectly matches this URL while input "abc" will block all the connections that contain "abc" in its URL.

Start Time/End Time:

Set a period of time to drop or accept the connection.

Add/Del:

After fill up all your requirement of a rule, click Add to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click Del. Then the high-lighted rule will be removed from the list.

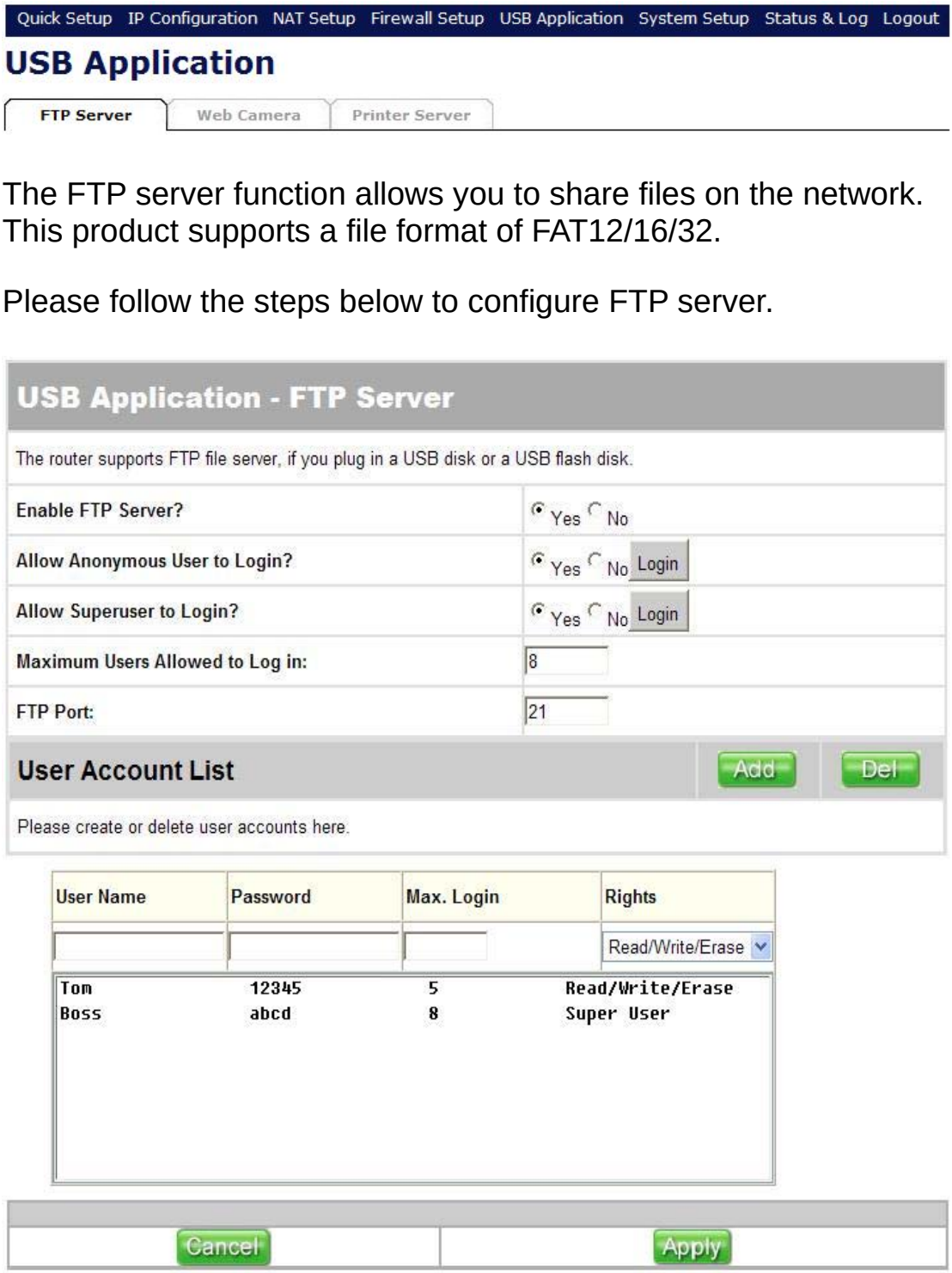
Apply/Cancel:

Click Apply to save the settings or click Cancel to aboard.

4.5 USB Application

This router provides three USB applications, FTP server, Web camera and printer server.

4.5.1 FTP Server



The FTP server function allows you to share files on the network. This product supports a file format of FAT12/16/32.

Please follow the steps below to configure FTP server.

Enable FTP Server:

Select Yes to enable or No to disable FTP Server.

Allow Anonymous User to Login:

Select Yes to allow users use anonymous to login or select No to forbid users use anonymous to login.

Allow Super User to Login:

Select Yes to enable or No to disable user log in to FTP as super user.

Maximum Users Allowed to Login:

Input the maximum amount that the system can allow users to login at the same time.

FTP Port:

The default FTP Port is 21, you can change it if necessary.

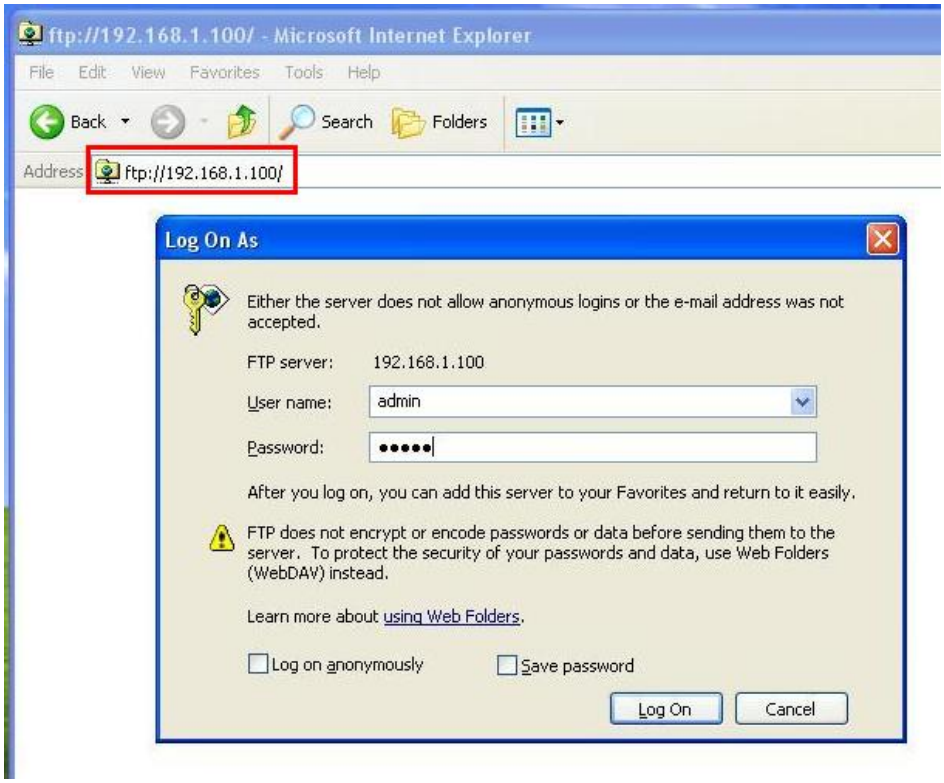
Add/Del:

To add a user account, input user name, password, max login and file access right of the new user and then click Add. To delete a user account, select the user from the account list and then click Del.

Apply/Cancel:

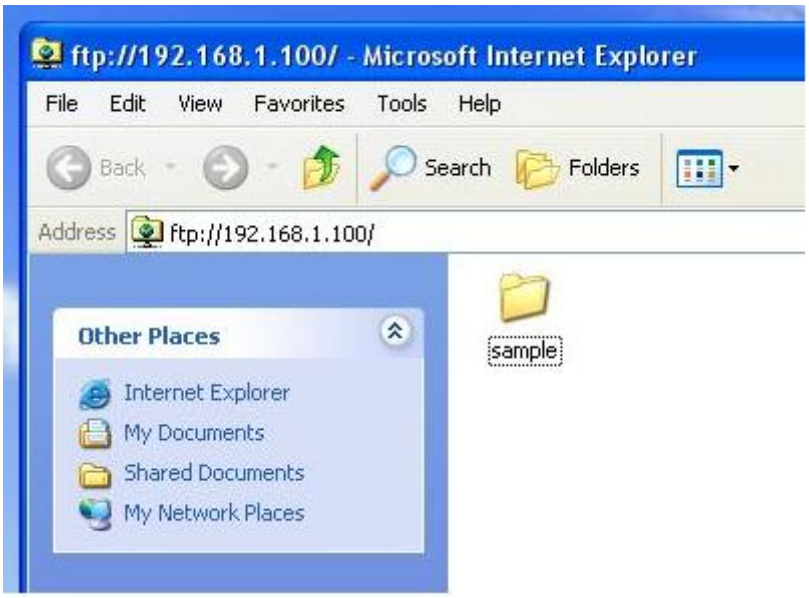
Click Apply to save the settings or click Cancel to aboard.

How to operate on Windows:

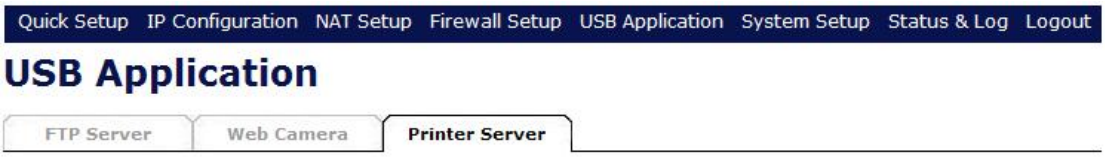


Open Internet browser and input the address of the router. For example, we use ftp://192.168.1.100 because the LAN IP address of our router is 192.168.1.100.

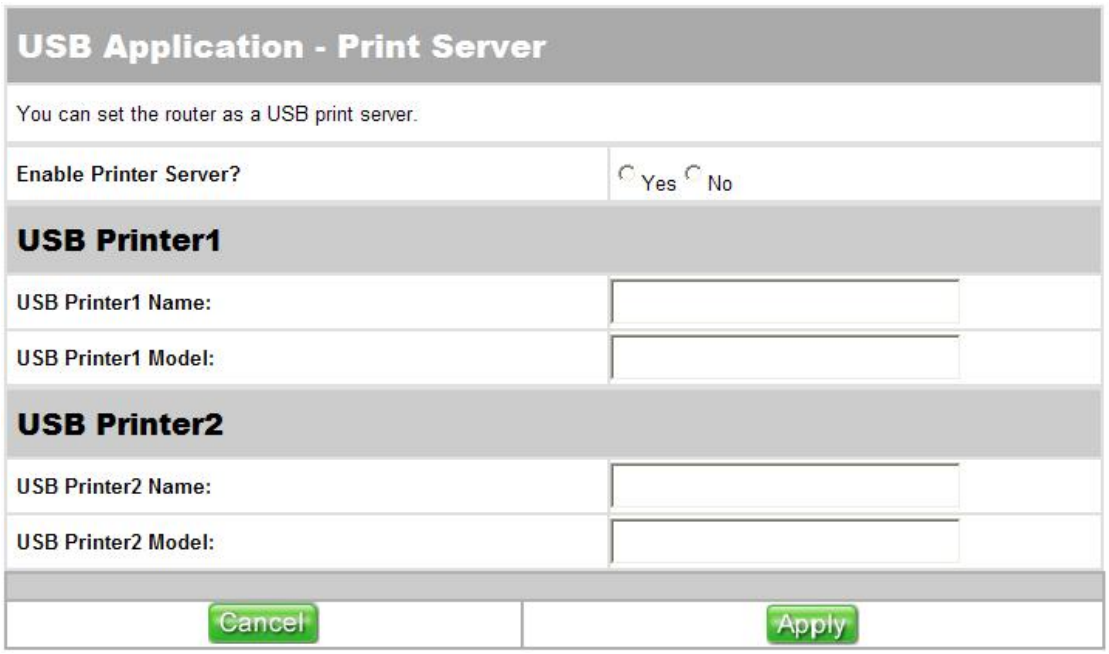
If the ***Allow Anonymous User to Login*** item is set to No, then a dialog will appear to ask you for user name and password. Enter the user name and password then click Log On. If the user name and password is valid, you can see the data as follows.



4.5.2 Print Server



The Print server function allows you to share printers on the network. KCodes 502g support LPR printing protocol. Please follow the steps below to configure print server.



Enable Print Server:
Select Yes to enable or No to disable print Server.
Printer1 Name:
This is the printer name of the first printer. There will be a default printer name. You can change it if you want. Remember this name will be the one you should use when adding printer on Windows.
Printer1 Model:
The model of the first printer.
Printer2 Name:
This is the printer name of the second printer. There will be a default printer name. You can change it if you want. Remember this name will be the one you should use when adding printer on Windows.
Printer2 Model:
The model of the second printer.
Apply/Cancel:
Click Apply to save the settings or click Cancel to aboard.

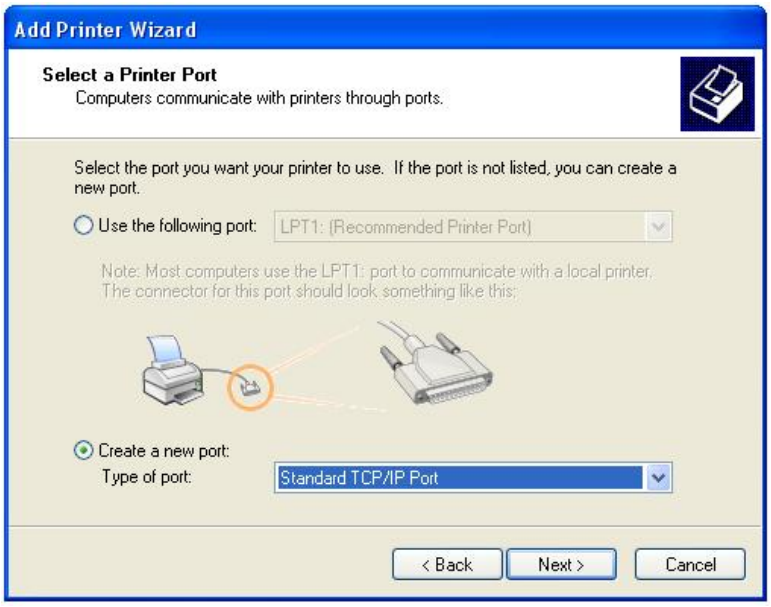
Add a printer on Windows:
Please follow the steps listed below to add a printer on Windows.

Go to “Start” select Printers and Faxes.

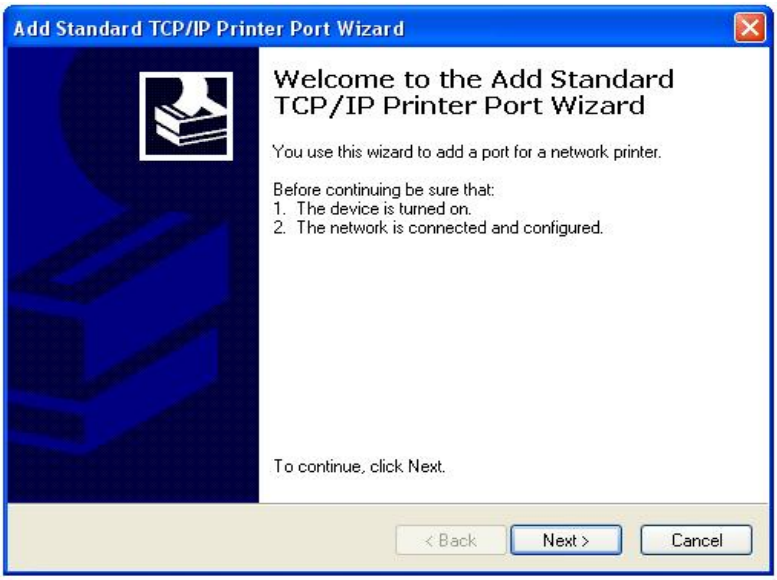
Click Add a printer.

Click Next.

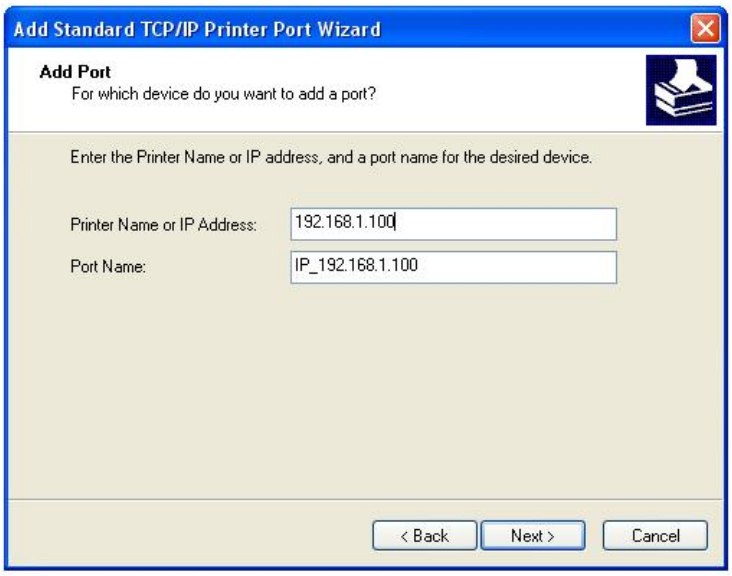
Select Local printer attached to this computer then click next.



Select Create a new port and set type of port to Standard TCP/IP Port. Click next.

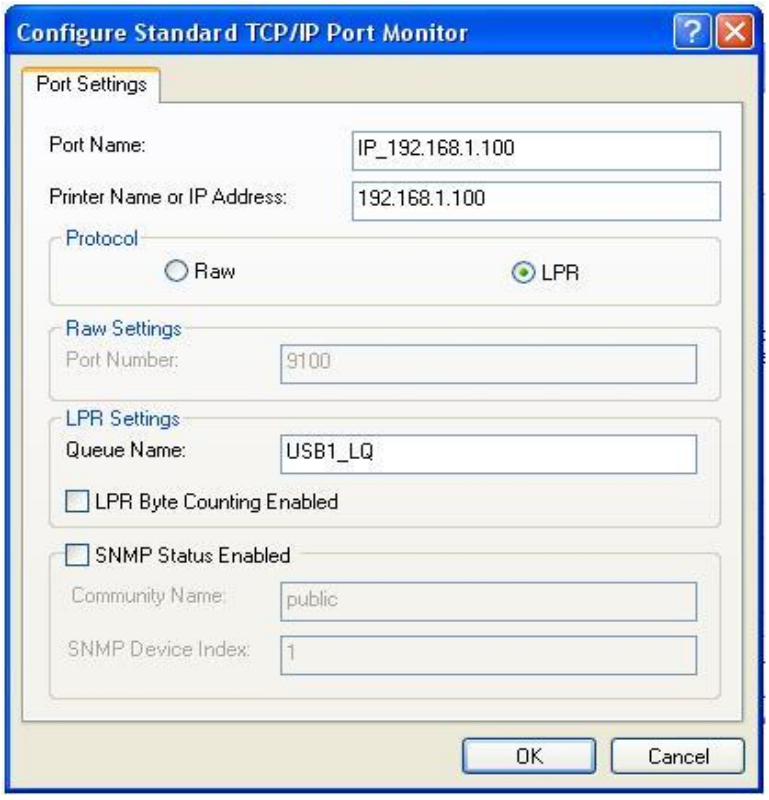


A wizard of adding a new standard TCP/IP port will appear. Click Next.



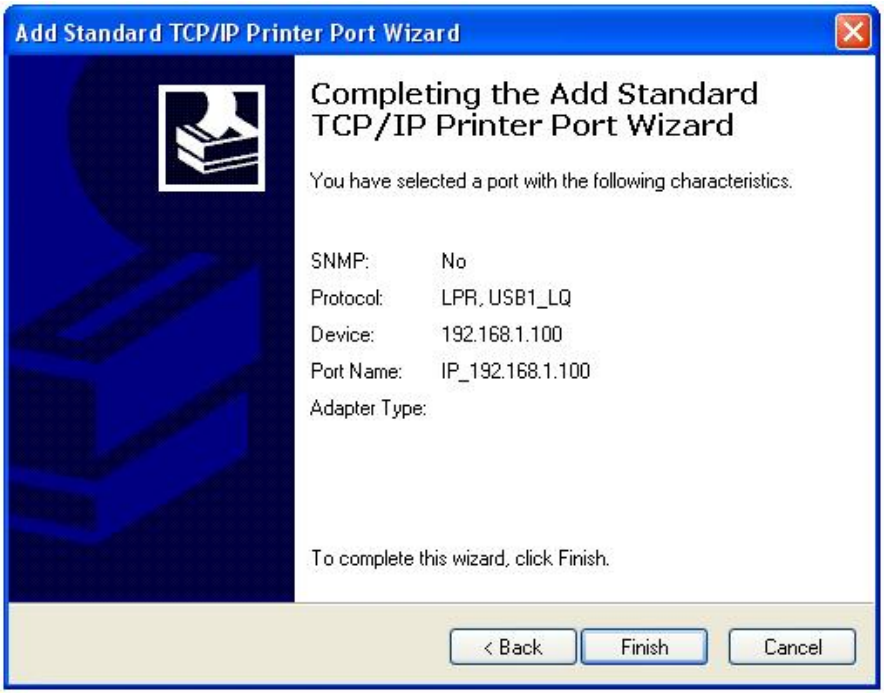
Give a name to this new port. Then click Next.

Select device type to Custom. Then click Settings.

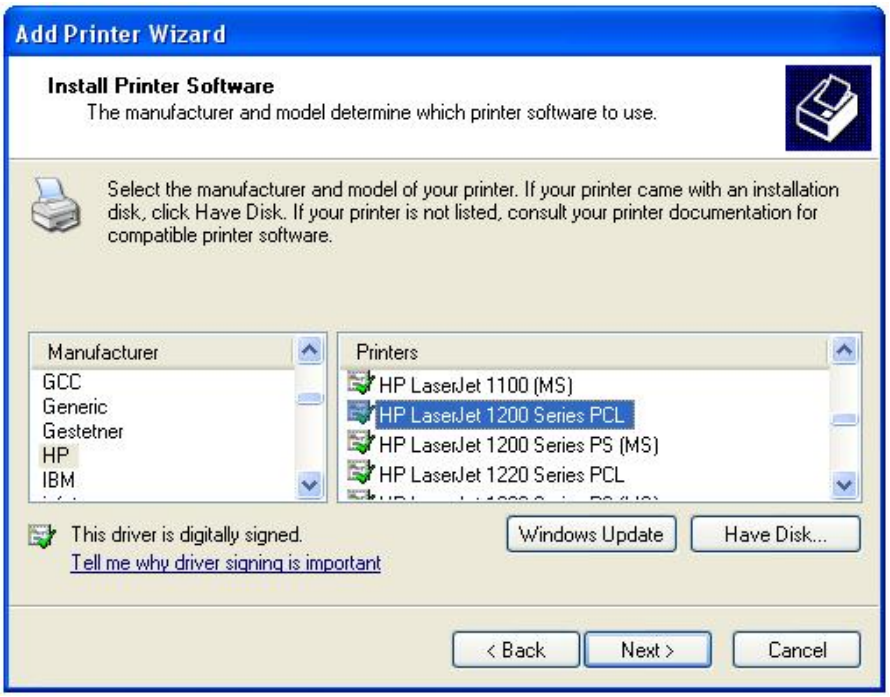


Set protocol to LPR and set queue name as the printer name you set on router web site. Here we use USSB1_LQ for example. Click OK.

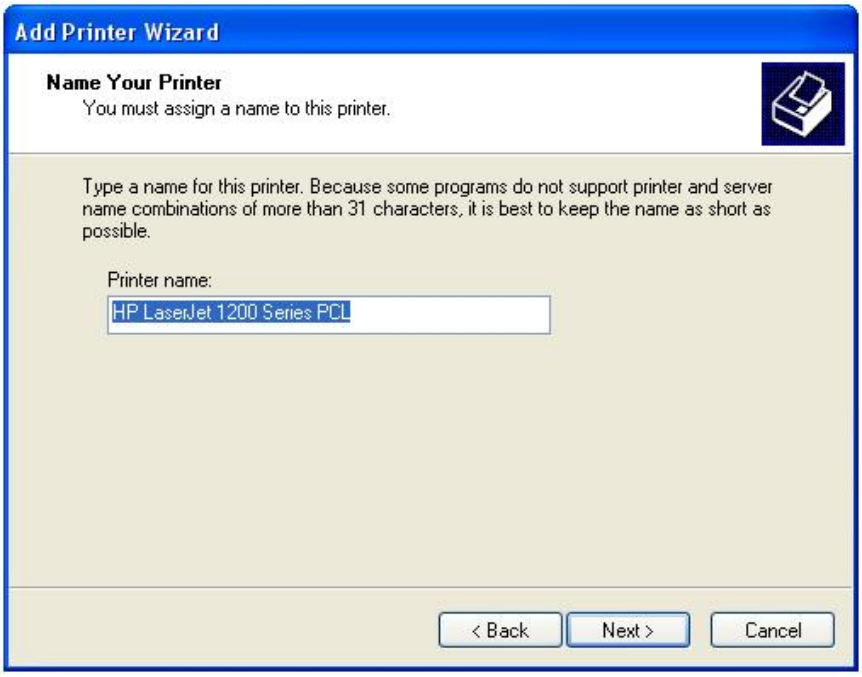
Once the device type is configures, the wizard will back to this page. Click Next.



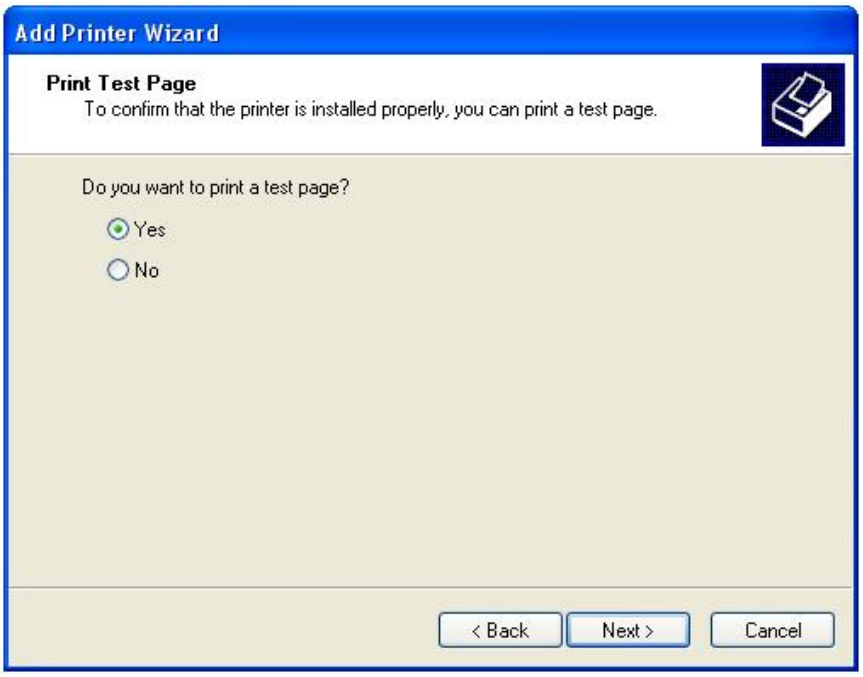
Click finish to complete the add printer port wizard.



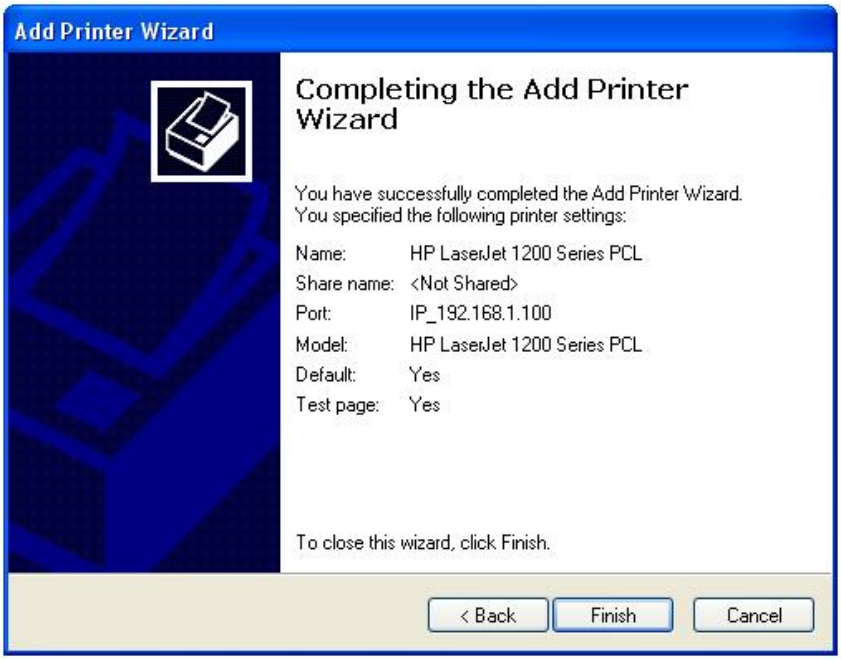
Select printer driver. Here we use HP LaserJet 1200 Series PCL for example. Click Next.



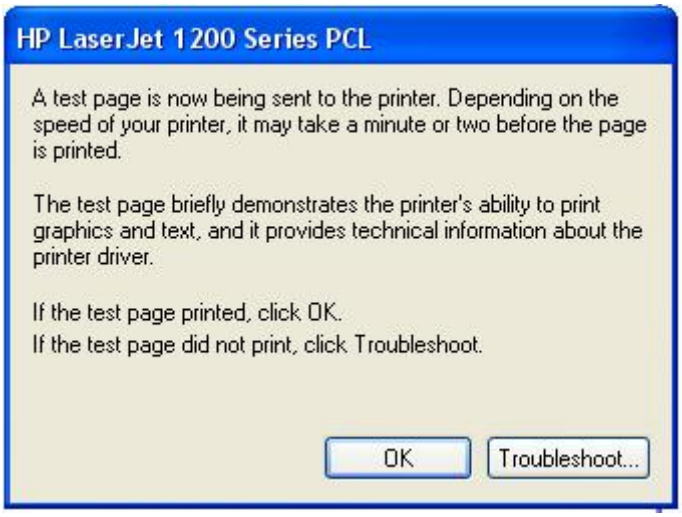
Give this printer a name. This name is used for Windows display. There will be a default printer name, you can change if necessary.



Select whether you want to print a test page or not. Here we select Yes as an example.



Click finish to complete the add printer wizard.



If the test page is printed, click Ok. Otherwise, click Troubleshoot.

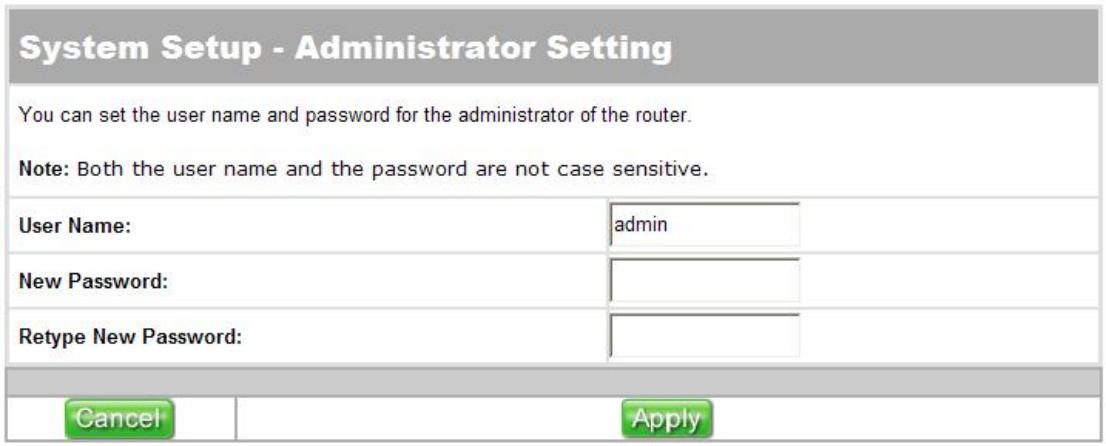
There will be a new printer added to your printer list.

4.6 System Setup

4.6.1 User Setting

You can set the name and password for the administrator of the

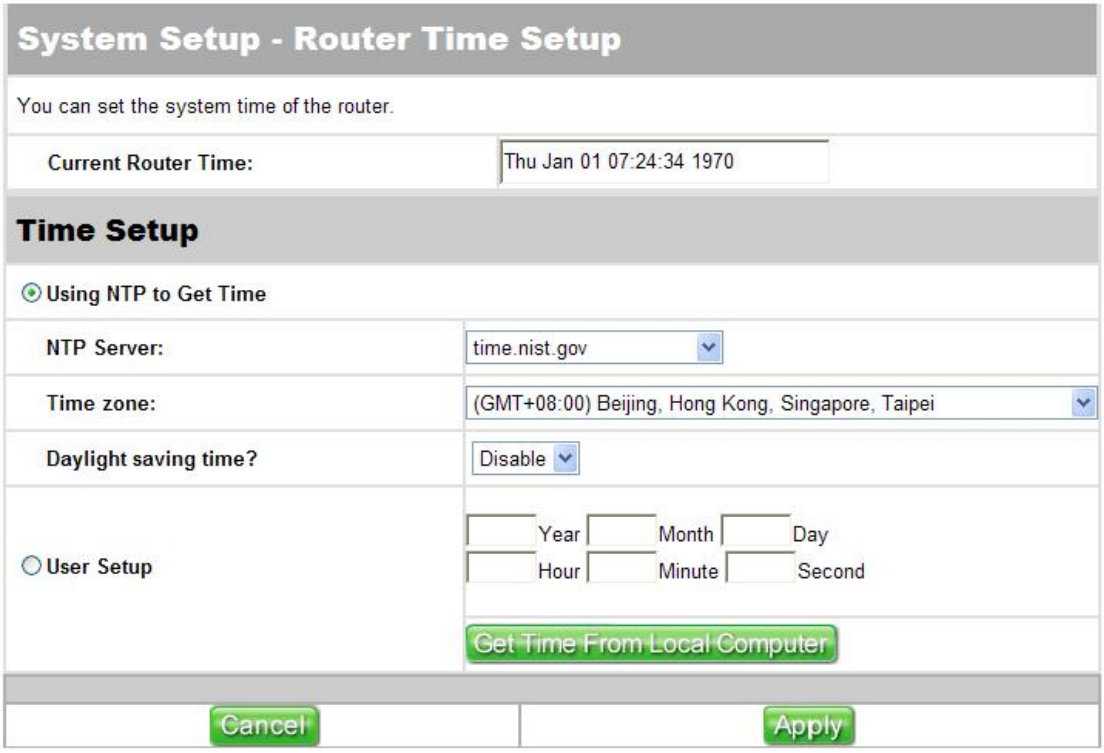
router.



Input the new user name and password that is to be used as the administrator of the router. Retype the password and click Apply to save the settings or Cancel to aboard.
*Note that you should use the new user name and password to login to the router web site once applied.

4.6.2 Time Setup

You can set the router clock to your local time and daylight saving time. You can get current time from NTP (Network Time Protocol) server or from your local computer. Please follow the steps below to set your router time.



Current Router Time:
This field displays your current router time.
Using NTP to Get Time:
Select this if you want to get time from NTP server.
NTP Server:
Select a NTP server from the drop-down list.
Time Zone:
Choose your local time zone from the drop-down list.
Daylight Saving Time:
Select an option to enable or disable daylight saving time.
User Setup:
Select this if you prefer setup time manually. Input the time for each field or you can also get time from your local computer.
Get Time From Local Computer:
Click to get time from your local computer. The time get from your computer will be displayed at the user setup field.
Apply/Cancel:
Click Apply to save the settings or click Cancel to aboard. Once applied, the current router time field will display your new router time.

4.6.3 Firmware Upgrade

This page displays the current firmware information of your router. You can always keep your router updated to the latest version from this page as well. Please follow the steps below to upgrade router firmware.

Product ID:
This field displays product ID of your router.
Firmware Version:
This field displays the firmware version that your router is using currently.
New Firmware File:
Click Browse to get the new firmware that you would like to upload.
Upload:
Click Upload to upgrade the firmware.

4.6.4 Setting Backup

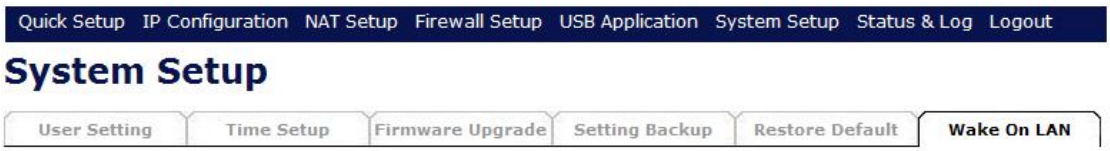
You can save your current configuration to a file, and you can also load your settings from a file that you have saved. Please follow the steps below to save or load your settings.

Click Here to save your current settings into a file for backing up. If you want to get your original settings back, click Browse to get your saved settings and click Upload to apply. The system will reboot automatically, all the settings will be restored to the original value after reboot.

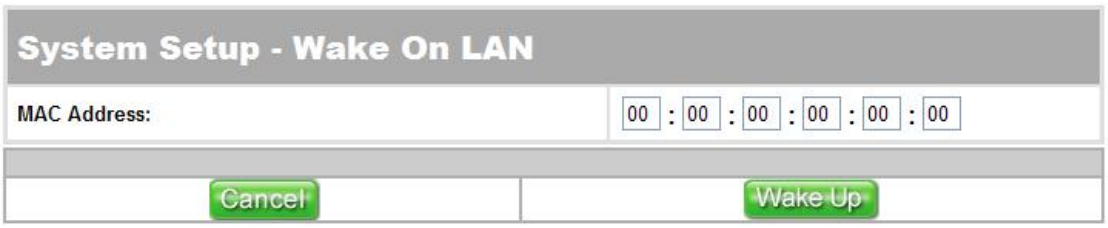
4.6.5 Restore Default

You may restore the router to factory default settings from this page. To restore default settings, simply click the Restore button. The system will reboot automatically. Settings will be reset to factory default values after reboot.

4.6.6 Wake on LAN



For computers connected on this router's LAN port, the Wake on LAN function allows you to turn on a computer through its MAC address. The computer must support Wake on LAN. Please check the BIOS setup in your computer.



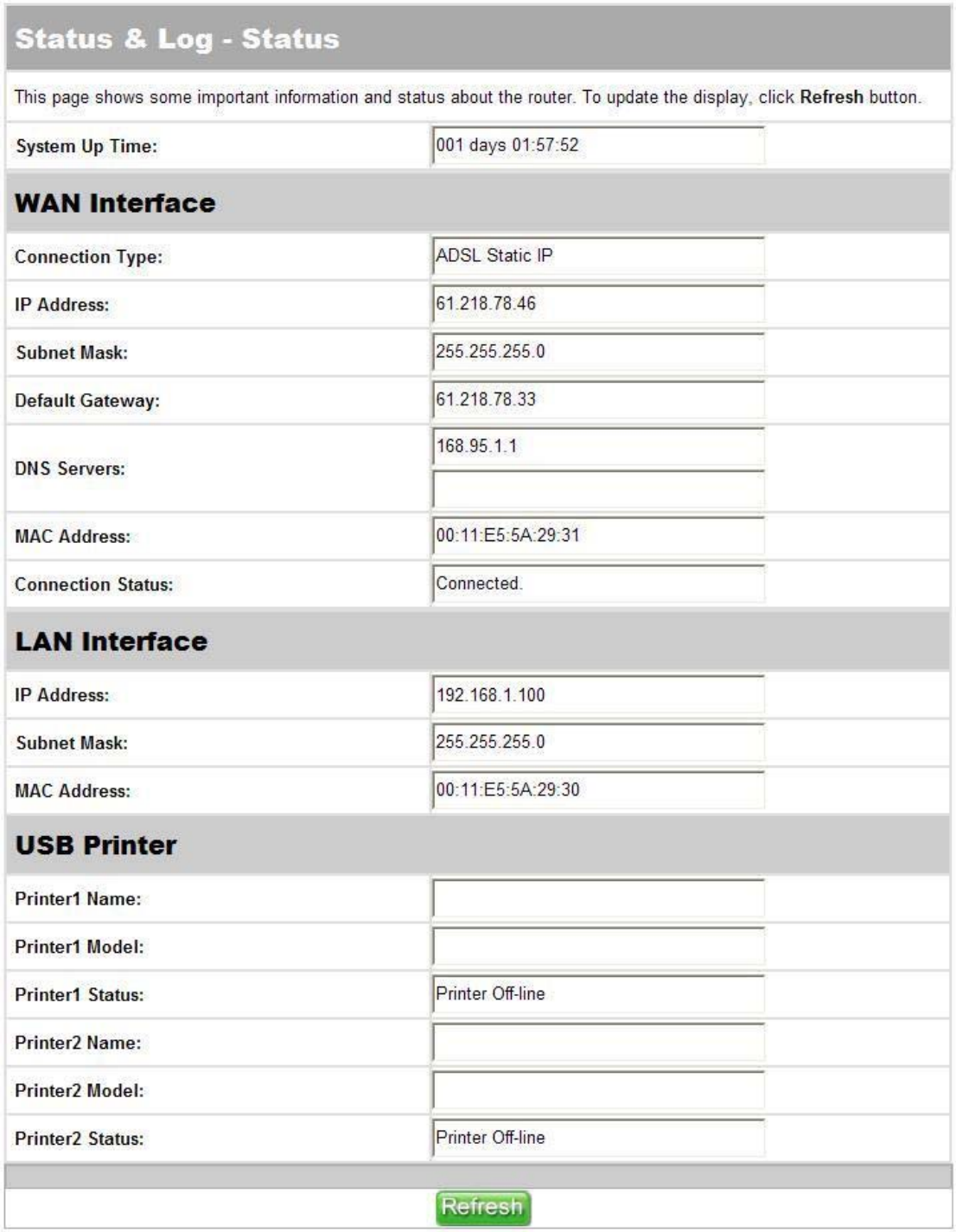
To wake up a computer, please enter the MAC address of the computer, and then click Wake Up to turn on the computer or click Cancel to aboard and clear the setting.

4.7 Status & Log

Status & Log provides many useful information of the system. Including the current WAN and LAN status of the system, the DHCP offered by this DHCP server and the login record of the system.

4.7.1 Status

Status page shows some important information and status of the interfaces of this router.



System Up Time:

This field shows the lasting time from the last time this system up to current.

WAN Interface

Connection Type:

This field shows the WAN connection type this system is using.

IP Address:

This field shows the IP address of the system WAN port.

Subnet Mask:
This field shows the subnet mask of the system WAN port.
Default Gateway:
This field shows the gateway of the system WAN port.
DNS Servers:
This field shows the DNS server IP address of the system WAN port.
MAC Address:
This field shows the MAC address of the system WAN port.
Connection Status:
This field shows the current WAN connection status. The value would be Connected or Not connected.

LAN Interface
IP Address:
This field shows the IP address of the system LAN port.
Subnet Mask:
This field shows the subnet mask of the system LAN port.
MAC Address:
This field shows the MAC address of the system LAN port.

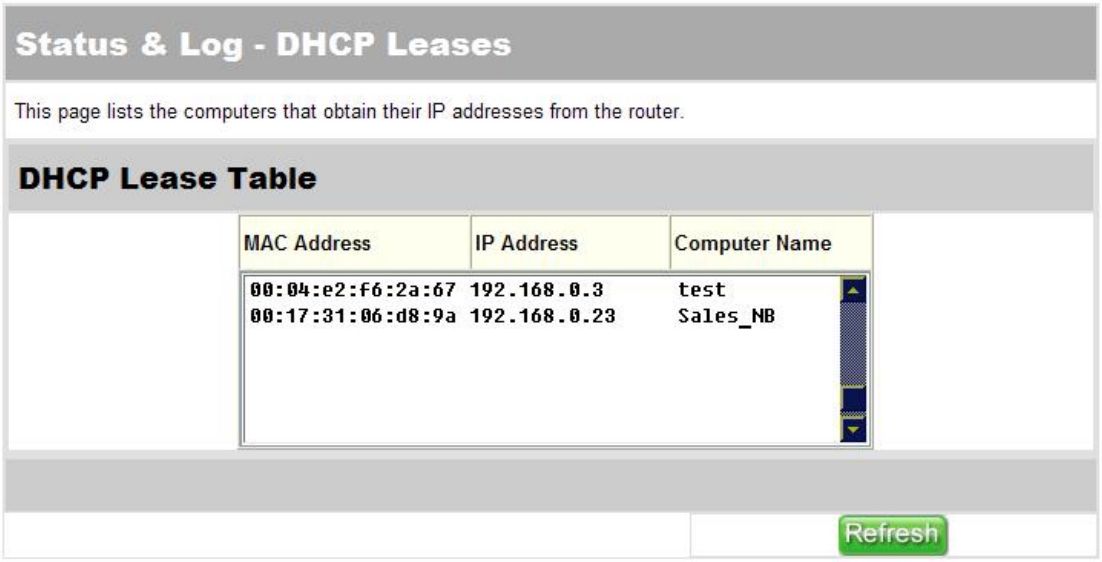
USB Printer
Printer Name:
This field shows the printer name of the printer connected to system USB port.
Printer Model:
This field shows the printer name of the printer connected to system USB port.
Printer Status:
This field shows the printer status of the printer connected to system USB port.

Refresh:
Click Refresh to get the latest information of the system.

4.7.2 DHCP Leases

When the system DHCP server function is on, this system will offer

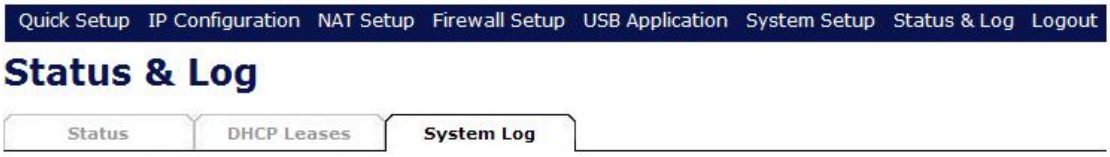
IP addresses to other network devices. This page shows the IP address offered and to which MAC address does this IP address offered.



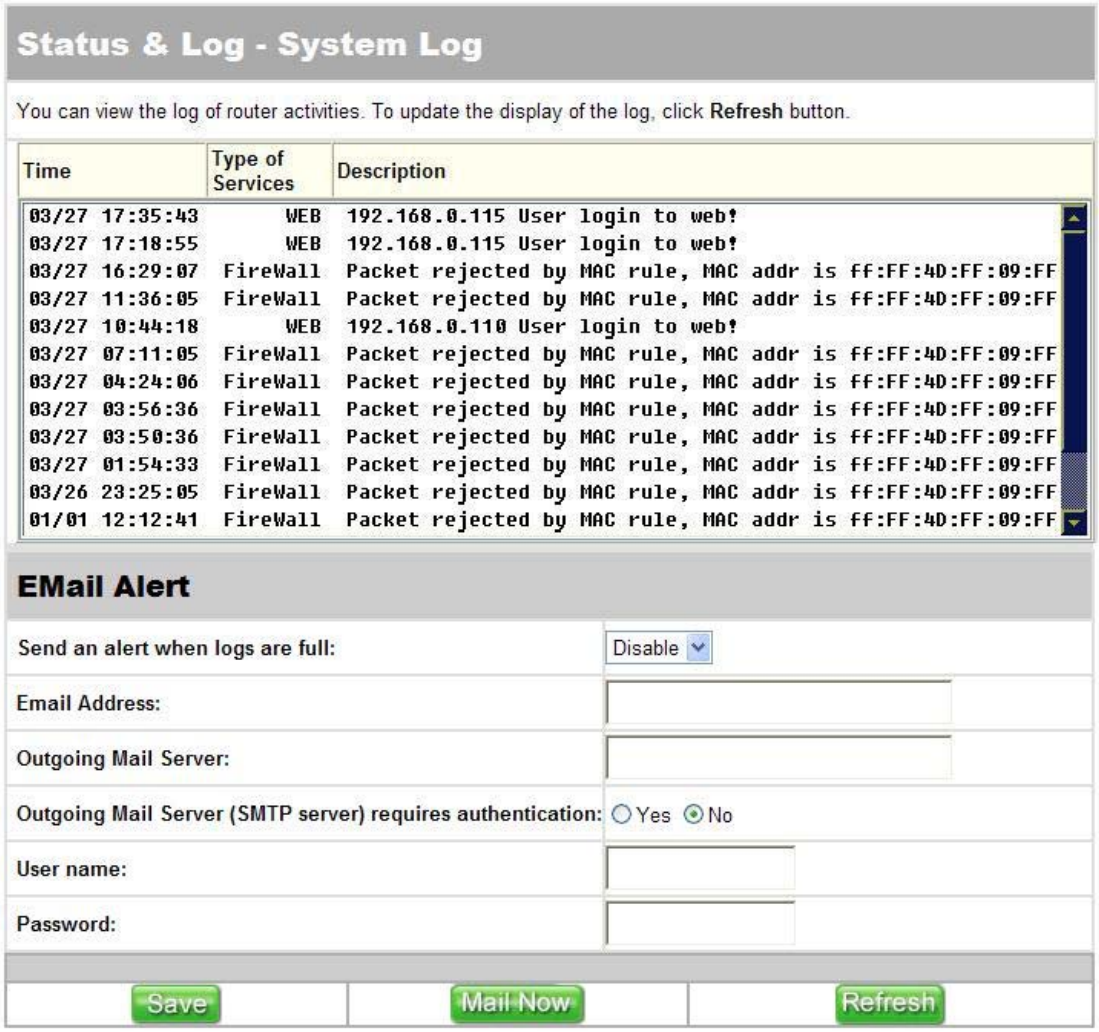
Refresh:

Click Refresh to get the latest information of the DHCP leases

4.7.3 System Log



The system records some of its activities automatically. An alerting email could be send to inform users when the system log is full. The logged information can be saved to computer manually.



System Log:

The log records the time, type of services and description of router activities.

Send an alert when logs are full:

Select an option to enable or disable alerting email. If enabled, the system will send an email to the designated email address when logs are full.

Email Address:

Input the email address that you want the alerting email to be sent to.

Outgoing Mail Server:

Input the outgoing mail server address.

Outgoing Mail Server (SMTP server) requires authentication:

Select whether your outgoing mail server requires authentication or not.

User Name:

Input the user name of your mail server authentication.

Password:

Input the password of your mail server authentication.

Save:

Click Save to save the logs to your computer.

Mail Now:

Click Mail Now to send an alerting email immediately.

Refresh:

Click Refresh to get the latest log status.

4.8 Logout

To logout from router web page, click Logout at the very right of the main menu.

A page will inform you that your logout has completed. If you want to login again, click Login.

Appendix Factory Default Values

IP Configuration

WAN Connect Type:	Automatic IP
WAN DNS:	Automatic
PPPoE's MTU:	1492
LAN IP:	192.168.1.100
LAN Subnet Mask:	255.255.255.0
DHCP Server:	Enabled
DHCP Server Starting IP Address:	192.168.1.1
DHCP Server Ending IP Address:	192.168.1.254
RIP:	Disabled
Web Server Port:	80
Ping from WAN:	Enabled
Web Access from WAN:	Disabled
Print Server Access from WAN:	Disabled
FTP Access from WAN:	Disabled
Webcam Access from WAN:	Disabled
DDNS:	Disabled

NAT

Port Trigger:	Disabled
Virtual Server:	Disabled
Virtual DMZ:	Disabled

Firewall

IP Filter:	Disabled
MAC Filter:	Disabled
URL Filter:	Disbaled

USB Application

FTP Server:	Disabled
Allow FTP Anonymous Login:	No
Allow FTP Superuser Login:	No
Max. Concurrent FTP Users:	8
FTP Port:	21
WebCAM Mode:	ActiveX
WebCAM Port:	64455
WebCAM Security Mode:	Disabled
Printer Server:	Disabled

System

Administrator ID:	admin
Administrator Password:	admin
Time Setup:	Use NTP to get time
NTP Server:	time.nist.gov
Time Zone:	GMT