



## Fast Ethernet / Wireless 11b/g Print Server with Storage Server (NAS)

# **User's Manual**

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### Federal Communication Commission Interference Statement

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

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

#### **FCC Caution**

This equipment must be installed and operated in accordance with provided instructions and a minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

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

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

# Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **R&TTE Compliance Statement**

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

#### Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

#### EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

#### EU Countries Not intended for use

None.

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## 1. Introduction

Thank you for purchasing and using our Print Server with Storage Server (NAS) product. This product provides two USB 2.0 ports. User can connect the USB mass storage or printer to each USB port. When the USB mass storage is connected, the device can be a Storage Server (NAS, Network Attached Storage) allowing user to share files in the storage. When the printer is connected, the device can be a print server allowing user to share printer through the network.

#### **Main Features**

- Comply with IEEE 802.3, IEEE 802.3u Wired Ethernet and IEEE 802.11g/b (2.4GHz) Wireless LAN standards.
- Share USB Mass Storage or Printer to all PCs through Wired or Wireless Network.
- Compatible with all major operating systems (Windows 98SE/Me/2000/XP, MAC OS and Unix/Linux).
- Easy to configure through the Setup wizard and Web Management tool.

#### **Print Server**

- Supports LPR, IPP and Raw printing protocols.
- High compatibility with the popular brands of printers.

#### NAS

- Share USB Hard Disk or Flash Drive through the network.
- Support FAT16, FAT 32, Ext2, Ext3 and NTFS (Read Only for NTFS) file systems.
- Built-in Samba/FTP Server.
- Support account management and user authorization for file folders.
- Release USB storage through hardware buttons.

### 2. Product Package

This package contains the following components:

- One Print Server with Storage Server (NAS)
- One Dipole Antenna (PS-2207SUg only)
- One Power Adapter
- One Quick Installation Guide
- One CD-ROM (Including all the software utilities, drivers and User's Manual)

### 3. Hardware Installation

#### Step 1. Connect the server to your LAN network

Connect the server to your PC, hub or switch by attached the Ethernet cable to the LAN port of the server.

#### Step 2. Connect the USB devices to the USB ports of the server

You could connect the USB mass storage or printer to any one of two ports for files or printer sharing.

Note 1: It is recommended to plug the external power to your USB mass storage devices if the USB LED of the connected port is not lit.

Note 2: Please plug the USB mass storage dedicated to this server in the USB port 1 for disk management such as Add/Delete Partitions or Format the disk. If you just want to share the USB mass storage, you can plug the storage in USB port 1 or 2.

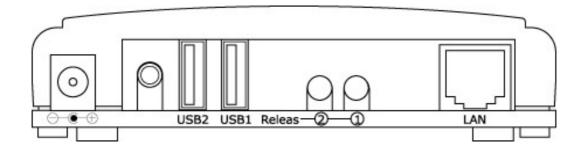
Note3: USB Flash Disk has to be plugged to USB port 2.

#### Step3: Connect the power adapter to the server

You must use the power adapter shipped along with the server, do NOT use any other power adapter from other sources.

### 4. Hardware Placement

### 4.1 Rear Panel



1) Power Jack

Please plug the power adapter attached with the server to the power jack.

2) Antenna Connector (PS-2207SUg only)

The antenna connector of the server is reverse SMA connector. It allows you to connecting an external antenna with reverse SMA connector to the server easily.

3) USB 1 and USB 2

The USB ports allow you to connect to printer or USB mass storage for network sharing.

4) Release 2 and Release 1

The Release button is used to safely remove USB mass storage from your server. Click the Release 1 and 2 buttons for over 5 seconds to remove device connected in the USB port 1 and port 2 individually. The USB LED of the USB port will be blinking after you have clicked Release button for over 5 seconds. Please unplug the USB mass storage while the USB LED is blinking. When the USB LED is turning unlighted, the release function is cancelled.

Note1: If the release function is cancelled, the USB mass storage will be reconnected by the server. Please wait a moment till the USB LED for the USB port is turn on again.

Note 2: If you experience extreme problems or you forgot your password, press the Release 1 for longer than 10 seconds and the server will reset itself to the factory default settings (warning: your original configurations will be replaced with the factory default settings)

5) Local Area Network (LAN)

The server's LAN port is where you connect your hubs, switches or routers.

### 4.2 Front LEDs

On the server's front panel there are LED lights that inform you of the server's current status. Below is an explanation of each LED and its description.



LED	Mode	Status	Description	
Power	Deth	On	The device is ready	
(Green)	Both	Off	No power	
		Off	The wireless mode is disabled.	
WLAN	Green	Blinking	The device is trying to connect to the AP or station.	
			Printing jobs are sending to the printer	
	Print Server	Off	No printing jobs	
		On	USB mass storage is ready to use	
USB Status (Green)		Off	<ul><li>No device is connected</li><li>Release is cancelled</li><li>Release is completed</li></ul>	
		Blinking	The "Release" button is clicked for over 5 seconds. The USB LED is blinking to alert user to unplug the USB mass storage.	
	Both	On	The LAN cable is connected to the network device such as hub or switch.	
LAN		Off	No network connection.	
(Green)		Blinking	Network traffic transferring or receiving through the LAN port.	

# 5. Setup Wizard

This Setup Wizard is for you to configure the server's IP Address. This wizard can be run in Windows 98SE/Me/2000/XP. The following procedures are operated in Windows XP. (Procedures are similar for Windows 98SE/Me/2000.)

- Insert the CD shipped along with the server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from "Autorun" folder in the CD.
- 2. The following screen will be displayed. Click "Setup Utility".



3. The wizard will search for all the servers within the network and list the connected device in each port of the servers. Please select the server you want to configure and click "Next".

Devic	e List		
Select of	one device to	configure	
Device Name	IP Address	Connected Port1	Connected Port2
18334455	192.168.2.5		WinFast Disk 128 M
Status	: 1 Device Fo	und !	Search

4. Please enter user name and password to login the server. By default, the user name is "Admin" and password is "1234". Click "Next" to continue.

	Setup Wizard
Login User Name/Password Login	
User Name: admin Password: ****	
	Back Next Canc

5. The wizard will try to determine your network settings automatically. If a DHCP Server is present within the network, the wizard will automatically obtain and configure the network settings assigned by the DHCP Server to the server. The assigned IP Address will be shown in the IP Address fields. If no DHCP Server is present within the network, please assign the network settings of the server manually. Please click "Next" once you have found appropriate network settings for the server. By default, the network settings are as follows.

IP Address: 192.168.2.5

#### Subnet Mask: 255.255.255.0

IP Address Assignment	
IP Address :	10 .0 .11 .111
Subnet Mask :	255 .255 .255 .0
Default Gateway :	10 .0 .11 .1
🔵 Manual IP	
IP Address :	192 . 168 . 2 . 5
Subnet Mask :	255 .255 .255 .0
Default Gateway :	0.0.0.0

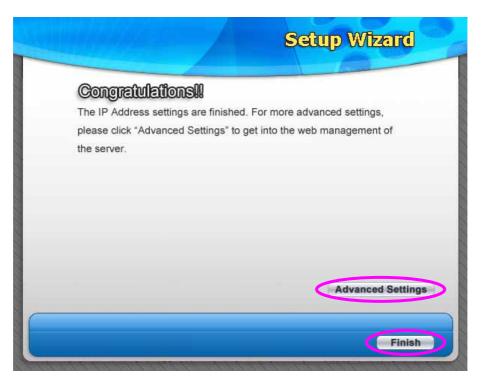
6. Review the network settings of the server. If there is no problem, click"Save" to save the settings and reboot the server.

	Setup Wizard
Settings Overview	
To confirm the IP Address settings, pl	ease click "Save" button.
Device Name : MS	334455
IP Address Setting : Ma	nual IP
IP Address : 192	.168.2.5
Subnet Mask : 255	.255.255.0
Default Gateway : 0.0.	0.0
	Back Save Canc

7. The server is saving the settings and rebooting, please wait for a while.



8. The configuration is finished. For more settings, please click "Advanced Settings" to get into the web management of the server. Or click "Finish" to close the wizard.



### 6. Print Server Installation

This server provides a Print Server Setup tool for you to add the network port of the server to your computer automatically. After you have added the network port, you can run the standard "Add Printers" procedures in the Windows to install the printer with the print server.

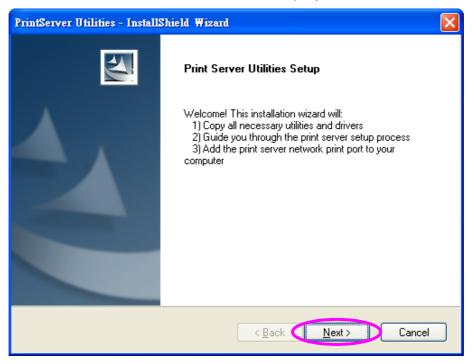
The program can be performed on Windows 98SE/Me/2000/XP/2003 with the same user interface. Before installation, please confirm that your PC has already connected to the network and installed TCP/IP network protocol.

Please follow the steps below to start installation.

- Insert the CD shipped along with the server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from "Autorun" folder in the CD.
- 2. The following screen will be displayed. Click "Print Server Utility".



3. The "PrintServer Utilities" window will be displayed. Click "Next".



4. Click "Next" to install the utilities in the default folder or click "Browse" to specify the destination folder where you would like to install the utilities.

PrintServer	Utilities - InstallShield Wizard		X
	Destination Location Ider where setup will install files.		
	Install PrintServer Utilities to: C:\Program Files\PrintServer Utilities		Change
InstallShield -		< Back	> Cancel

5. The system will start to install the utilities automatically.

PrintServer Utilities - InstallShield Wizard	X
Setup Status	No.
PrintServer Utilities Setup is performing the requested operations.	
Installing	
C:\WINDOWS\system32\pswin.dll	
InstallShield	
	Cancel

6. The "Remote Port Setup" is for you to add the network port of the print server to your computer. Please click "Add".

Remote port setup	
Remote port list :	
	Add
	Delete
	Exit

 Enter the "Print Server Name" and the "IP Address" of the server and also select the port number, then click "OK" to add the print server port to your computer.

Print Server Name: It is the last 6-digit of MAC ID with prefix "PS".

IP Address: By default, it is "192.168.2.5".

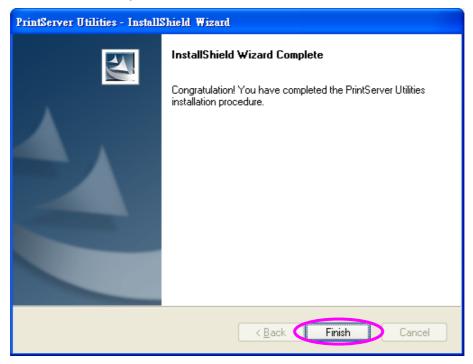
**Port**: Designate the printer port name for each port. By default, it is "lpt1" for USB port 1 and "lpt2" for USB port 2.

Create remote port	X
Print Server Name : PS334455	ОК
IP Address : 192.168.2.5	Cancel
Port	
Ipt1	
F Ipt2	
🗖 Ipt3	
	]

8. The network port of the print server is set completely. Click "Exit".

<b>F</b>	Remote port setup	
	Remote port list :	
	PS334455-P1	Add
		Delete
		Exit

9. Click "Finish" to complete the installation.



#### Add Printer

After adding a "Network Port" of the print server to your PC, you can follow the procedure described below to add printer to the Windows. Note that following "Add Printer" steps are running in Windows XP, the steps in other Operating Systems are similar.

- 1. Click "Start", and select "Printers and Faxes".
- 2. Click "Add a Printer".
- 3. The "Add Printer Wizard" is displayed. Click "Next".



 Select "Local printer attached to this computer" and make sure that "Automatically detect and install my Plug and Play printer" is not selected. Click "Next".

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use: <ul> <li>Local printer attached to this computer</li> <li>Automatically detect and install my Plug and Play printer</li> <li>A network printer, or a printer attached to another computer</li> </ul> To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back Next > Cancel

5. Choose the suitable "Print Server Network Port" which was created by the installation process and click "Next".

Add Printer Wizard
Select a Printer Port Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
O ∐se the following port: PS334455-P1 (PrintServer Network Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port: Type of port: Local Port
< <u>B</u> ack <u>N</u> ext > Cancel

6. Select the printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.

Add Printer Wizard
Install Printer Software The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer 🖸 Printers
Diconix EPSON Stylus C61 Series
Digital Epson 600Q ESC/P 2
Fuji Xerox
Fujitsu 💽 🙀 Epson ActionLaser 1100
This driver is digitally signed. <u>Tell me why driver signing is important</u>
< <u>B</u> ack <u>N</u> ext > Cancel

7. Name your printer and setup the default printer, click "Next".

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible. <u>Printer name:</u> <u>EPSON Stylus C61 Series</u>
< Back ( <u>N</u> ext > Cancel

8. Choose to print the test page or not. It is recommended to print a test page. Click "Next".

Add Printer Wizard
Print Test Page To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
< <u>Back</u> <u>N</u> ext> Cancel

9. You have added the printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".

Add Printer Wizard		
	Completing the Add Printer Wizard You have successfully completed the Add Printer Wizard. You specified the following printer settings:	
	Name:	EPSON Stylus C61 Series <not shared=""> PS334455-P1 EPSON Stylus C61 Series Yes Yes</not>
	To close this	wizard, click Finish.
< <u>B</u> ack Finish Cancel		

10. Now you can start to print from your PC to the print server.

# 7. FTP/File Server Configuration

The server provides FTP/File Server function, which let you share a USB storage device to all PCs in your Intranet/Internet. It supports SAMBA protocol in File Server, let you share files via Network Neighborhood. And also supports FTP Server for your FTP clients to upload/download files from the server.

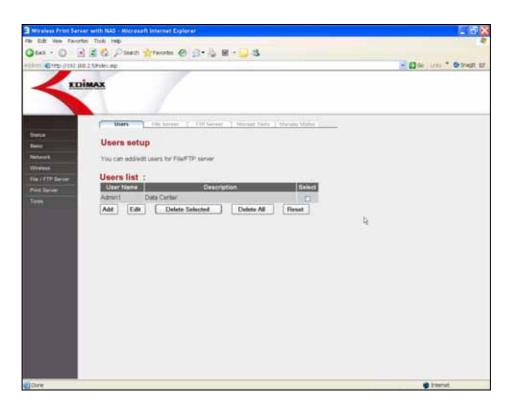
### 7.1 File Server

To share the USB mass storage or USB Flash Disk from the server, please follow the procedures below.

1. Open your Web Browser and enter the IP address of the server to logon to the web management of the server. The default settings of the server are:

IP Address: 192.168.2.5 User Name: admin Password: 1234

- 2. Set the users who are authorized to access to the USB storage device in the "Users" menu of "FTP/File Server" page.
  - Click Add
  - Enter the user information, including User Name and Password.



- 3. Set the share folders of the USB storage device, which are allowed to access by authorized users in the "Storage Server" menu of "FTP/File Server" page.
  - Set the following information to identify your USB storage device on the network.

**Storage Name**: By default the storage name is the last 6-digit of MAC ID with prefixes "MS".

Workgroup: The default workgroup is "WORKGROUP".

Description: The device name displayed in "My Network Places".

Follow the default settings, you will find a device "NAS System

(MS334455)" from workgroup computers in "My Network Places" of the Windows.

Please assign the shared folders and the user's read/write authority.
 Folder Name: Enter the name for shared folder.

**Path**: Designated the shared folder path or enable to share all folders in the storage.

**Description**: The comments or description for the shared folder.

User: Assign users with read/write authority for the shared folder.

Read/Write: Select "Read Only" or "Read/Write".

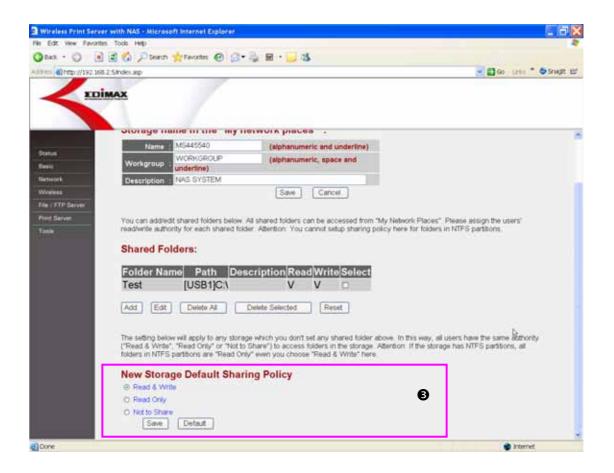
Note: You can not set sharing policy here for folders in NTFS partitions.

 If you want to set all users have the same authority to share the all folders in the storage, please select "Read & Write", "Read Only" or "Not to Share" here.

Note1: If you have set shared folders and the user's read/write authority, the "New Storage Default Sharing Policy" you set here will not enable.

Note2: If the storage has NTFS partitions, all folders in NTFS partitions are "Read Only" even you choose "Read & Write" here.

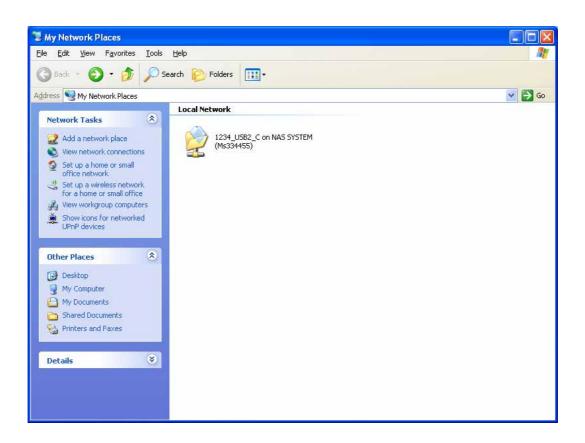
Wireless Print Ser	rver with NAS - Microsoft Internet Explorer	
File Edit View Favo	intes Tools Help	2
GEach · O	🖹 🗟 🐔 🔎 Search 👷 Favorites 🥑 🗇 + 🦕 🗟 🕂 🔂 🕉	
-32	168.2.5khdex.axp	🕑 🚰 Go 🗤 👘 🗳 Srugit 🖽
	DIMAX	
Section .	Usare File Server TID Server T Manaar Taals   Staraar Status	
Status	File Server	
Network		-
Wenness	Storage name in the "My network places" :	
Ele / FTP Server	Name MS445540 (alphanumeric and underline)	R
Print Server	Workgroup WORKGROUP (alphanumeric, space and underline)	
Tonis	Description : NAS SYSTEM	·
	Save Cancel	
	You can addredit shared folders below. All shared folders can be accessed from "My Network Places	
	read/write authority for each shared folder. Attention: You cannot setup sharing policy here for folder	rs in NTES partitions.
	Shared Folders:	
	CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR	
	Folder Name Path Description Read Write Select Test [USB1]C\ V V I	
	Test [USB1]C/\ V V D	·
	Add Edt Delete All Delete Selected Reset	
		-
	The setting below will apply to any storage which you don't set any shared folder above. In this way, i	all users have the same authority
	("Read & Write", "Read Only" or "Not to Share") to access folders in the storage. Attention: If the storage has NTFS partitions, all folders in NTFS partitions are "Read Only" even you choose "Read & Write" here.	
	The second s	
	New Storage Default Sharing Policy	
Operation	A Part & Make	a internet



- 4. Access the share folder of the USB storage device.
  - Double click "My Network Places" in Windows. You will find the USB storage device.

Note: If you cannot find the device in "My Network Places", you can click "Start" and select "Run...." Enter "\\\P Address of the server" to access the device.

Run	? 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
	OK Cancel Browse



Double click the device to logon to the folder.

**User Name**: Please enter the user's name who has been allowed to access the folder.

**Password**: Please enter the user's password.

Note1: In Windows, multiple connections to a server or shared resource by the same user, using more than one user name, is not allowed. Please make sure that you use one user name for one computer to access the same shared resource.

Note2: If you cannot logon to the shared folder, it is recommended to enter "Storage Name or IP Address of the server\User Name" (for example: MS334455\test or 192.168.2.5\test) in the "User Name" field.

Connect to MS	334455 🛛 🖓 🔀
R	E CAR
Connecting to Ms	334455
User name:	🖸 test 💌
Password:	••••
	Remember my password
	OK Cancel

### 7.2 FTP Server

To set the USB mass storage or USB Flash Disk as FTP Server for your FTP clients to upload/download files from the server, please follow the procedures below.

1. Open your Web Browser and enter the IP address of the server to logon to the web management of the server. The default settings of the server are:

```
IP Address: 192.168.2.5
User Name: admin
Password: 1234
```

 Set the users who are authorized to access to the USB storage device in the "Users" menu of "FTP/File Server" page.



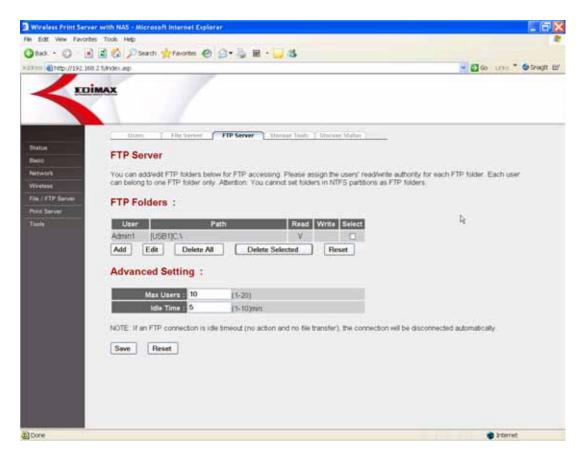
• Enter the user information, including User Name and Password.

🔳 Wireless Print Server	r with NAS - Microsoft Internet Explorer	
File Edit. View Favorites		*
Geat · 🔘 🖻	🗟 🚯 Diserci 👷 Facetes 😨 🔂 🖏 📓 🖓 📓	
Alizhea (114tp://192.168	2.5(milex aq)	Svagit Ef
xoi	MAX	
	- Anna-	
	Users File Server FIP Server Morrow Taols Sherrow States	
Status Basic	Users setup	
Network	You can add/edt users for FileFTP server.	
Wealess		
File / FTP: Server	User list : User Name Description Select	
Pitet Server Taula	Admin1 Data Center	
	Add Edit Delete Selected Delete All Reset	
		R.
Done		🔮 Internet

 Set the shared folders of the USB storage device which are allowed to access by authorized users in the "FTP Server" menu of "FTP/File Server" page.

Please assign the shared folders and the user's read/write authority.
User: Select the user who has the right to access the FTP Server.
Path: Designated the shared folder path.
Read/Write: Select "Read Only" or "Read/Write".

Note: You can not set sharing policy here for folders in NTFS partitions.



- 4. Open your web browser and enter "ftp://IP Address of the Server", for example: ftp://192.168.2.5.
- 5. Enter user name and password to logon to the FTP Server.

### 8. Web Management

This server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage the server's various main functions in browsers. Simply enter the server's IP address into your browser's address field to start the configuration.

The default IP Address, User Name and Password settings of the server are as follows.

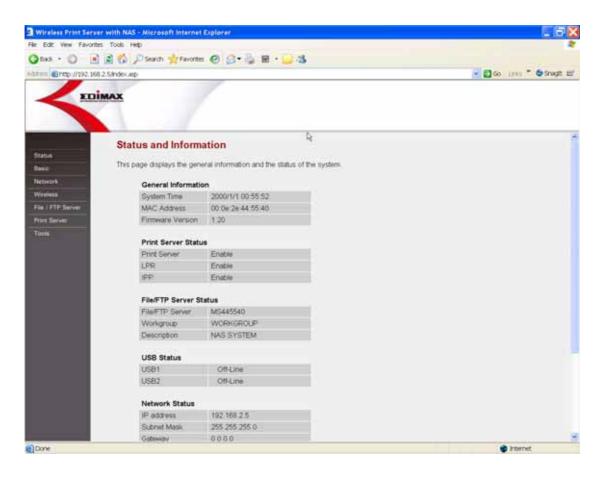
IP Address: 192.168.2.5 User Name: Admin Password: 1234

Note: Please make sure that your computer is in the same segment network of the server or you cannot get into the web management of the server.

Connect to 19	2.168.2.5 🛛 🛛 🔀
7	GR
Default: admin/1	
User name:	🖸 admin 💌
Password:	••••
	<u>Remember my password</u>
	OK Cancel

### 8.1 Status

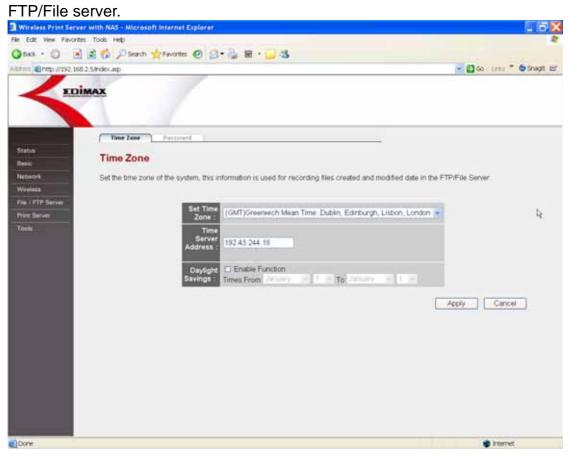
The status of the server will be displayed here. You can find the information including system time, firmware version, network settings and the USB port status.



# 8.2 Basic

#### 8.2.1 Time Zone

The Time Zone allows your server to refer the time configured here. This information is used for recording files' created and modified date in the



Parameter	Description
Set Time Zone	Select the time zone of the country you are currently in. The server will set its time based on your selection.
Time Server Address	Set the time from a time server, the default time server is "192.43.244.18".
Daylight Savings	If your region is currently in DST, please check the "Enable Function" and set the time period of Daylight Savings.
Times From	Select the beginning date of the Daylight Savings Time.
Times to	Select the end date of the Daylight Savings Time.

### 8.2.2 Password

You can change the password required to log into the server's web-based management. By default, the password is "1234".

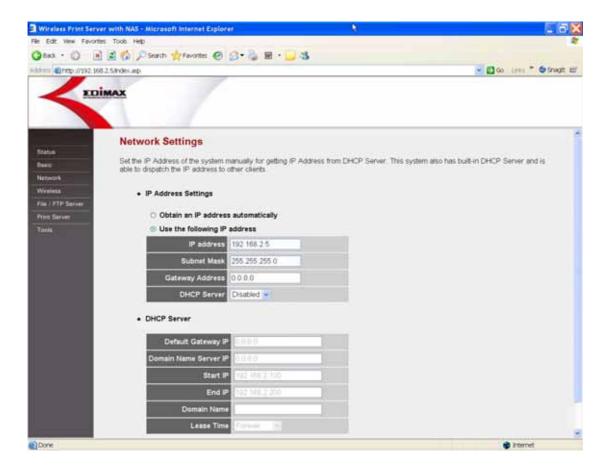
and the second se	er with NAS - Microsoft Into	rnet Esplorer		
File Edit Vew Favorit		vortes 🕑 🔗 📲 🖬 🕛	-	-
Address (1/192.168		AND CALIFIC MALE	· a	Struct Ef
	Inter Inter Password Sett	assword of the system required t	o log into the web management. The	
				Internet

Parameters	Description
Current Password	Enter your current password for the remote
	management administrator to login to your server. By
	default, the password is "1234".
	Please enter your new password. The password can be
New Password	0 to 30 alphanumeric characters, and are case
	sensitive.
	Enter your new password again for password
Confirmed Password	confirmation.
	Note: If you forget your password, you have to reset the
	server to the factory defaults by pressing the Release 1
	button longer than 10 seconds.

## 8.3 Network

#### 8.3.1 IP Address Settings

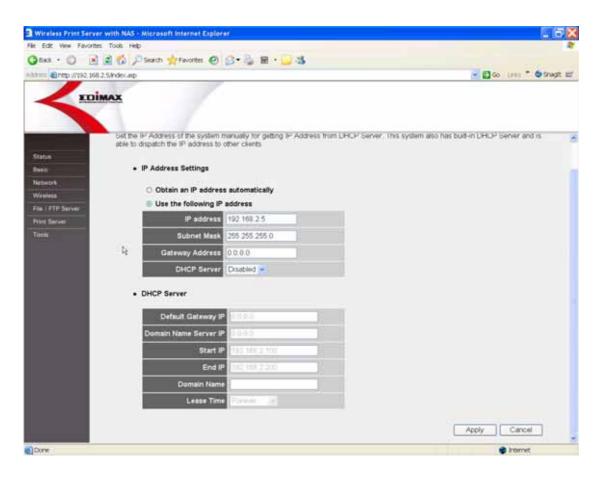
You can configure the server to automatically get IP Address from DHCP server or manually specify static IP Address. The IP Address of the server must be set to have the same network segment within your network environment or connected computer. If the network IP Address settings are incorrect, then the server will not be able to communicate throughout the network. For example, if your router/gateway/computer is using IP Address 192.168.2.1, then you need to give a unique IP Address to your server with IP range 192.168.2.x (Please note: Above IP address setting is only an example, please do not follow exactly!)



Parameters	Description
Obtain an IP Address Automatically	If there is a DHCP Server within your network, please select to obtain an IP Address from DHCP Server. Then the DHCP server will assign a unique IP Address to your server.
Use the following IP Address Password	If you want to set the server's IP Address manually, please select this option. You have to enter the IP Address, Subnet Mask and Gateway Address for the server.
IP Address	Enter the IP Address of the server. If your router/gateway/computer is using IP Address 192.168.2.1, then you need to give a unique IP Address to your server with IP range 192.168.2.x
Subnet Mask	Enter the same Subnet Mask as your router/gateway/computer.
Gateway Address	Enter the same Gateway Address as your router/gateway/computer.
DHCP Server	This server has a built-in DHCP Server; please select "Enabled" to activate the function. By default, it is disabled.

### 8.3.2 DHCP Server

This server has a built-in DHCP Server. If the DHCP Server is enabled, it will automatically give your LAN clients a unique IP Address, also include Default Gateway and DNS Server IP Address if you have designated.



Parameters	Description
Default Gateway IP	A default gateway is a node (a router) on a network that serves as an access point to another network. Please enter the IP Address of the default gateway.
	A Domain Name System (DNS) server is like an index of IP addresses and Web addresses. If you type a Web
Domain Name Server IP	address into your browser, such as "www.server.com", a DNS server will find that name in its index and the
	matching IP address. Please enter the DNS Server IP Address here.
Start IP	The Start IP is the first IP Address assigned to the LAN client. By default, the "Start IP" is " <b>192.168.2.100</b> ".

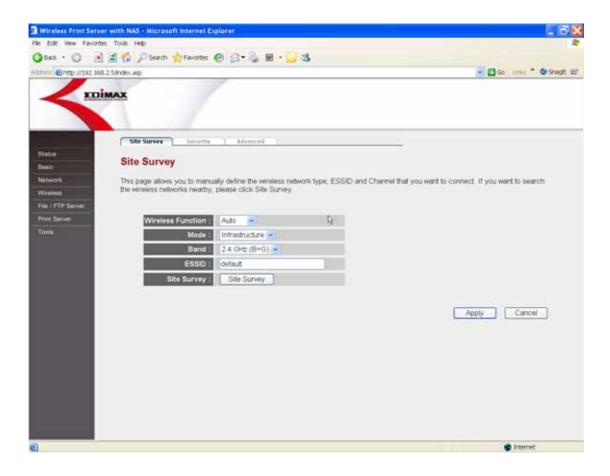
Parameters	Description
	The End IP is the last IP Address assigned to the LAN
End IP	client. By default, the "End IP" is "192.169.2.200"
Domain Name	You can specify a Domain Name for your LAN.
Lease Time	In the Lease Time setting you can specify the time
	period that the DHCP Server lends an IP Address to
	your LAN clients. The DHCP will change your LAN
	client's IP Address when this time threshold period is
	terminated.

## 8.4 Wireless (PS-2207Sug only)

If you want to use the server through wireless LAN, please set up the server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the server, then you can start to use the server through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, restart the server and configure the server through Ethernet until the wireless LAN settings are correct.

#### 8.4.1 Site Survey

This page allows you to enable/disable the wireless function and set the wireless networks that you want to connect. If you want to automatically search and connect to the wireless networks nearby, please click "Site Survey" button.



Parameters	Description
	You can select "Auto", Enable" or "Disable" to manually
	configure the wireless function.
	Auto – "Auto" is the default setting of the server. At this
	mode, the server will automatically decide to enable or
	disable the wireless function. When the server starts up,
	it will auto-detect if the LAN port is connected to an
	active network by an Ethernet cable. If this is the case,
	the server will run in Ethernet mode. If the server is not
	connected to an active network by Ethernet cable, the
	server will run in wireless LAN mode.
Marala a	Users can plug the Ethernet cable to the server at the
Wireless	first, after configuring the server features and wireless
Function	settings; they can unplug the Ethernet cable to enable
	the wireless connection. It makes the configuration
	much easier without creating the wireless connection in
	advance.
	Enable – Enable wireless function only, the server's
	wireless LAN will be always enabled and Ethernet will
	be always disabled.
	<b>Disable</b> – Disable the wireless function, the server's
	wireless LAN will be always disabled and Ethernet will
	be always enabled.
	Infrastructure – This operation mode requires the
	presence of an 802.11 Access Point or Router. All
	communication is done via the Access Point or Router.
Mode	
	Ad-Hoc – Select this mode if you want to connect to
	other wireless stations in the Wireless LAN network
	without through an Access Point or Router.

Parameters	Description
	<b>2.4GHz (B)</b> – This server can be compatible with both
	802.11g and 802.11b wireless devices. If there are only
	802.11b wireless devices in the network, you can set
	the server to this mode.
	<b>2.4GHz (G)</b> – This server can be compatible with both
Band	802.11g and 802.11b wireless devices. If there are only
Dana	802.11g wireless devices in the network, you can set
	the server to this mode.
	$2 4 CH = (P \cdot C)$ If you have a mix of 902 11h and
	<b>2.4GHz (B+G)</b> – If you have a mix of 802.11b and
	802.11g wireless devices in your network, it is
	recommended to set the server to this mode. This mode
	is also the default setting.
	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the
	unintentional merging of two co-located WLANs.
ESSID	difficientional merging of two co-located WEANS.
	You may specify an ESSID for the server and then only
	the device with the same ESSID can interconnect to the
	server. By default, the ESSID of the server is "default".
	The radio channel used by the wireless LAN. All devices
	in the same wireless LAN should use the same channel.
Channel	When you have set the wireless mode to Ad Hoc, you
	have to select the channel that is used in the Ad Hoc
	network.
	Click "Site Survey" and then the server will scan all the
Site Survey	channels to find all the access points/routers/stations
One Ourvey	within the accessible range of your server. You can then
	connect to one of the networks you have selected.

#### • Site Survey Tool

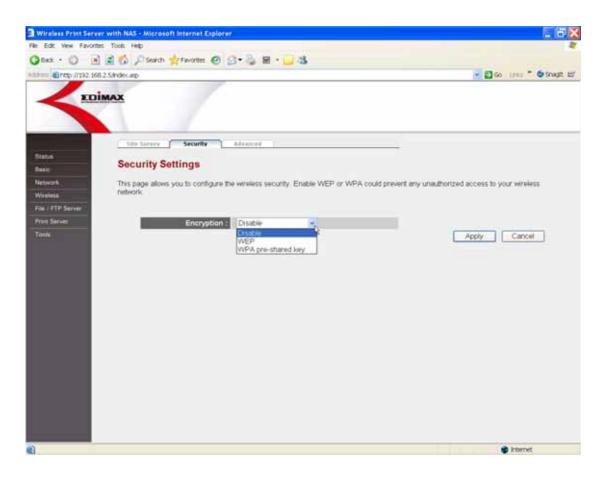
From the "Site Survey", all the networks nearby will be listed. You can select the network you want to connect and click "Done".

http://192.168.2.5 - Wireless Site Survey - Microsoft Internet Explorer	
Wireless Site Survey	<u>^</u>
This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.	
SSID BSSID Channel Type Encrypt Signal Select	
6F_EMAX 00:0E:2E:FF:FF:01 11 Infrastructure off 46 O	
Refresh Done	
Done Disternet	*

Parameters	Description
SSID	The SSID (up to 32 printable ASCII characters) is the
	unique name identified in a WLAN. The SSID name of
3310	the access points/routers/stations nearby will be listed
	here.
BSSID	The MAC ID of the access point/router/station.
Channel	The radio channel used by the wireless LAN. All devices
Channel	in the same wireless LAN should use the same channel.
	Display the type of the network. If the network is an
Туре	Infrastructure network, it will show "Infrastructure". If the
	network is an Ad Hoc network, it will show "Ad Hoc".
	Display the security setting of the network. If "Off" is
Encrypt	displayed, it means that the network is no security
	settings.
Signal	The signal strength of the network will be displayed
Signal	here. The higher signal strength, the better link quality.
Salaat	Click the radio button of the network which you want to
Select	connect and click "Done" to connect to the network.

### 8.4.2 Security

This server supports 64/128-bit WEP data encryption that protects your wireless network from eavesdropping. It also supports WPA-PSK and WPA2-PSK security, which provide stronger security level for your wireless network.



#### 8.4.2.1 WEP

11 0 Mg //192.168.	📓 🐔 🔎 Search 👷 Favorites 🥑 🖇		
CTCC//1392.000.			Stragt E
	s.wroev.arp		
EDi	XAM		
	Site Survey Security	Advantant	
Status			-
Deng	Security Settings		
Network	This name allows you to continue the	wheless security. Enable WEP or WPA could pr	overt any una thorizant access to way wireless
Winniess	network.	Construction of the second of the second of the second of the	CAN'N IN A REPORT OF THE DOCUMENT OF THE
File / FTP Server			
Print Server	Encryption :	WEP.	
Torns	Key Length :	64-bit 🛒	Per .
	Key Format :	Hex (10 characters)	
	Default Key :	Rey 1 -	
	Encryption Key 1 :		
	Encryption Key 2 :		
	Encryption Key 3 :		
		R	
	Encryption Key 4 :		
			Apply Cancel

Parameters	Description
Encryption	Select "WEP" encryption type.
	You can select "64 bit" or "128 bit" length for the data
Key Length	encryption. Longer key length can provide stronger
	security but worth communication performance.
Key Format	You can select "Hexadecimal" or "ASCII" format for the
	encryption key.

Parameters	Description	
	Select the default key from the key1 to 4. The default	
	key will be used to encrypt the transmission data from	
	the server.	
	Note: The default key on the wireless device that you	
	want to connect and the server can have different	
Default Key	default WEP keys as long as the keys are in the same	
	order. In other words, the wireless device can use WEP	
	key 2 as its default key to transmit, while the server can	
	use WEP key 3 as its default key to transmit. The two	
	devices will communicate as long as the wireless	
	device's WEP key 2 is the same as the server's WEP	
	key 2, and the wireless device's WEP key 3 is the same	
	as the server's WEP key 3.	
	Enter the four sets of keys; the key order should be the	
	same as the wireless device you want to connect.	
	<b>C4 bit</b> Input 10 digit Llow values (in the "A F" "e f" and	
	<b>64-bit</b> – Input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII characters (including "a-z"	
Encryption Key	and "0-9") as the encryption keys. For example:	
1-4	"0123456aef" or "test1".	
1-4		
	<b>128-bit</b> – Input 26-digit Hex values (in the "A-F", "a-f"	
	and "0-9" range) or 13-digit ASCII characters (including	
	"a-z" and "0-9") as the encryption keys. For example:	
	"01234567890123456789abcdef" or "administrator".	

### 8.4.2.2 WPA-PSK

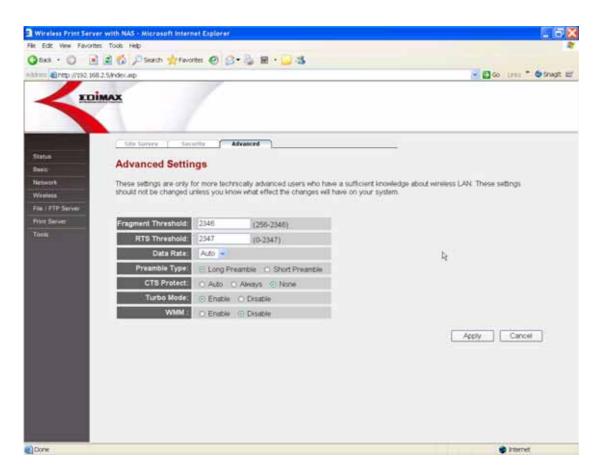
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File Edit View Favorite		
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Status Sosio Network Weatess Jile / FTP: Server Print Server Tome	Image: Source	your wireless
		PDF-SHI
e)		🐨 internet

Parameters	Description	
Encryption	Select "WPA pre-shared key" encryption type.	
	WPA-PSK is suitable for home and small business. It	
	uses TKIP for data encryption. When "WPA-PSK" is	
	selected, please enter 8-64 characters as the	
	"Pre-Shared Key".	
WPA Unicast	WPA2-PSK is also for home and small business. The	
Cipher Suite	difference between WPA-PSK and WPA2-PSK is that	
	WPA2-PSK provides data encryption via the AES. In	
	contrast, WPA-PSK uses Temporal Key Integrity	
	Protocol (TKIP). WPA2-PSK offers the highest level of	
	security available. When "WPA2-PSK" is selected,	
	please enter 8-64 characters as the "Pre-Shared Key".	

Parameters	Description	
Pre-shared Key	You can select "Passphrase" or "Hex (64 characters)"	
Format	format for the WPA pre-shared key.	
Pre-shared Key	Enter 8 to 64 digits as you select "Passpharse" format	
	or 64 digits (in the "A-F", "a-f" and "0-9" range) as you	
	select "Hex" format to be the key for the authentication	
	within the network.	

### 8.4.3 Advanced

You can set advanced wireless LAN parameters of this sever. The parameters include Fragment Threshold, RTS Threshold, Data Rate, Preamble Type, etc. It is recommended that do not change these parameters unless you know what effect the changes will have on this server.



Parameters	Description	
	Fragment Threshold specifies the maximum size of	
Fragment	packet during the fragmentation of data to be	
Threshold	transmitted. If you set this value too low, it will result in	
	bad performance. Enter a value from 256 to 2346.	
	When the packet size is smaller than the RTS threshold,	
RTS Threshold	the server will not use the RTS/CTS mechanism to send	
	this packet. The range is from 0 to 2347.	

Parameters	Description
	There are several data rates including
Data Rate	Auto/1/2/5.5/11/6/9/12/18/24/36/48/54Mbps for you to
	select. When the "Auto" is selected, the device will
	choose the most suitable transmission rate
	automatically.
	The preamble defines the length of the CRC block for
	communication among wireless devices. There are two
Broomble Type	modes including Long and Short Preamble. Therefore,
Preamble Type	for an IEEE 802.11g network to be interoperable with
	IEEE 802.11b clients, it must use larger preambles than
	it would normally need.
	The RTS/CTS protection mechanism is needed to
	ensure that all the devices can access the medium
	when IEEE 802.11b and IEEE 802.11g devices are
	co-existence in the same network. Especially, when
	Hidden Node is existent. Hidden Node occurs when
	different clients connected to the same access point
	cannot see each other, decide that the channel is free,
CTS Protect	and transmit at the same time. The frames collide when
	they reach the access point and all of them are rejected.
	When CTS protect is enabled, the throughput will be a
	little lower but it will help to reduce the packet loss.
	Select "Auto", the server will automatically enable the
	CTS protection mechanism when it is needed. Select
	"Always", the function will be always enabled. If you
	don't want to enable the function, please select "None".

Parameters	Description	
	This sever supports specific ways to increase the data	
	transfer rate at a time; compress the data and decrease	
	the waiting time to send the next data to the Access	
	Point or Router, this feature (known as Turbo Mode)	
Turbo Mode	enables higher throughput than IEEE 802.11g standard.	
	When the server is connecting to the Access Point or	
	Router with the same proprietary Turbo Mode feature,	
	the Turbo Mode will be enabled automatically without	
	any configuration.	
	This server supports WMM function. When you use the	
	devices such as Voice over Internet Protocol (VoIP)	
	phones, televisions, VCRs and MP3 players, IEEE	
	802.11e Quality of Service (QoS) (The Wi-Fi Alliance	
	defined WMM as a profile of the IEEE 802.11e)	
WMM	extensions for 802.11 networks will help to define the	
	priorities of the data traffics by the data categories to	
	provide enhanced multimedia support.	
	When the server is connected to the Access Point or	
	Router with WMM function, you can enable the function	
	of the server.	

### 8.5 Print Server

The server supports print server function by default. It supports LPR/IPP printing protocols. These two protocols allow users to connect to printers via TCP/IP for printing sharing. By using LPR protocol, the computer with Windows 98SE/Me/NT/2000/XP/2003, MAC OS 9.x above and Linux/Unix operating systems can use the protocol to share printing in the network. By using IPP protocol, you can share the printer to all the computers that can access the server by IP Address in Windows 2000/XP/2003 operating systems.

Parameters	Description
Print Server Features	Enable or disable the print server function. By default, it is enabled.
IPP	When the print server function is enabled, the IPP protocol will be enabled as well. IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The server can support IPP printing in Windows 2000/XP/2003 by default. By using the IPP printing, you can share the printer to all the PC's that can access the server by IP. You can even share your printer to Internet users.
LPR	When the print server function is enabled, the LPR protocol will be enabled as well. LPR Printing (Line Printer Remote technology) allows users to connect to printers via TCP/IP for printing sharing. The computer with Windows 98SE/Me/NT/2000/XP/2003, MAC OS 9.x above and Linux/Unix operating systems can use the protocol to share printing in the network.
Print Server Name	The name of the print server. You can use this name to identify the print server when you are searching for the print server by the Windows utilities. By default, the print server name is the last 6-digit of MAC ID with prefix "PS".
Queue Name of USB Port 1	The server has two USB 2.0 ports. If you connect a printer to the USB port 1, you have to designate a printer queue name to the port. Then you can use this name to access the printer port. By default, the printer queue name is "lpt1" for port 1.
Queue Name of USB Port 2	The server has two USB 2.0 ports. If you connect a printer to the USB port 2, you have to designate a printer queue name to the port. Then you can use this name to access the printer port. By default, the printer queue name is "lpt2" for port 2.

### 8.5.1 LPR Printing

LPR printing protocol is supported in Windows 98SE/Me/NT/2000/XP/2003, MAC OS 9.x above and Linux/Unix. The following sections introduce the standard LPR setup process in Windows 2000/XP/2003, MAC OS 9.x and Linux/Unix.

Note: It is recommended that running the Print Server Setup Tool in Windows operating system when you want to install the print server. Please refer to Chapter 6.

#### 8.5.1.1 Windows 2000/XP/2003

To configure the LPR setting in Windows 2000/XP/2003, please follow the steps below.

- 1. Click "Start", choose "Settings" and select "Printers and Faxes".
- 2. Click "Add a Printer".
- 3. The "Add Printer Wizard" is displayed. Click "Next".



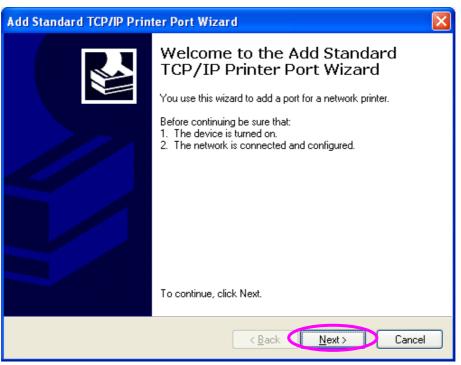
4. Select "Local Printer attached to this computer" and click "Next".

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use: <ul> <li>Local printer attached to this computer</li> <li>Automatically detect and install my Plug and Play printer</li> <li>A network printer, or a printer attached to another computer</li> </ul> To set up a network printer that is not attached to a print server, use the "Local printer" option.
< <u>B</u> ack <u>N</u> ext > Cancel

5. Choose "Create a new port" and "Standard TCP/IP Port". Click "Next".

Add Printer Wizard		
Select a Printer Port Computers communicate with printers through ports.		
Select the port you want your printer to use. If the port is not listed, you can create a new port.		
OUse the following port: LPT1: (Recommended Printer Port)		
Note: Most computers use the LPT1; port to communicate with a local printer. The connector for this port should look something like this:		
Create a new port:     Type of port:     Standard TCP/IP Port		
< Back Next > Cancel		

6. Please make sure that the print server and the printer have turned on and connected to the network correctly before you continue. Click "Next".



 Enter the IP Address of the print server in the "Printer Name or IP Address". Click "Next".

Add Standard TCP/IP Printer Port Wizard	
Add Port For which device do you want to add a port?	
Enter the Printer Name or IP address, and a port name for the desired device.	
Printer Name or IP Address: 192.168.2.2	
Port Name: IP_192.168.2.2	
< Back Next >	Cancel

8. Select "Custom" and click "Settings". When you have finished the settings at step 9, click "Next" to continue.

Add Standard TCP/IP Printer Port Wizard 🛛 🔀
Additional Port Information Required The device could not be identified.
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct. Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type       O Standard       Generic Network Card       O Custom       Settings
< <u>B</u> ack Next > Cancel

9. Select "LPR" and enter "lpt1" for printer attached in USB Port 1 or "lpt2" for printer attached in USB Port 2 in the "Queue Name", click "OK".

Configure Standard TCP/IP	Port Monitor 🛛 💽 🔀
Port Settings	
Port Name:	IP_192.168.2.2
Printer Name or IP <u>A</u> ddress:	192.168.2.2
- Protocol	
<u> </u>	<u>⊙</u> LPR
- Raw Settings	
Port <u>N</u> umber: 9100	
LPB Settings	
Queue Name: Ipt1	
LPR Byte Counting Enabled	ł
SNMP Status Enabled	
Community Name: public	;
SNMP <u>D</u> evice Index: 1	
	OK Cancel

#### 10. Click "Finish".

Add Standard TCP/IP Prin	ter Port Wiza	ard	×
	TCP/IP	ting the Add Standard Printer Port Wizard cted a port with the following characteristics.	
	SNMP: Protocol: Device: Port Name: Adapter Type:	Yes LPR, lpt1 192.168.2.2 IP_192.168.2.2	
	To complete th	nis wizard, click Finish.	
		< Back Finish Cancel	

11. Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.

Add Printer Wizard
Install Printer Software The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer A Printers
Gestetner HP IBM infotec Iwatsu
Iwatsu
This driver is digitally signed.     Windows Update     Have Disk       Tell me why driver signing is important     Have Disk     Have Disk
< Back Next > Cancel

12. Choose to set the print whether as a default printer or not. Click "Next".

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
HP LaserJet Do you want to use this printer as the default printer? ⊙Yes
O N <u>o</u>
< <u>B</u> ack <u>N</u> ext > Cancel

13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".

Add Printer Wizard							
	Comple Wizard	ting the Add Printer					
		You have successfully completed the Add Printer Wizard. You specified the following printer settings:					
	Name:	HP LaserJet					
	Share name:	<not shared=""></not>					
	Port:	IP_192.168.2.2					
	Model:	HP LaserJet					
	Default:	Yes					
	Test page:	Yes					
	To close this	wizard, click Finish.					
< <u>B</u> ack Finish Cancel							

#### 8.5.1.2 MAC OS

LPR Printing (Line Printer Remote technology) allows Macintosh computers to connect to printers via TCP/IP. LPR Printing can be set up on any Macintosh with version 9.x above.

#### • MAC 10.4.x

To enable LPR Printing in Macintosh 10.4.x, please follow the procedures below.

- 1. Open Print and Fax from the System Preferences.
- 2. With the Printing tab selected, click the "Add" button.
- 3. When the Printer Browser opens, select "IP Printer".
- 4. In the "IP Printer" screen, please configure as below.

Protocol: Select Line Printer Daemon - LPD as the Protocol.IP Address: Set the address to the server's IP Address, for example: 192.168.2.5.Queue: Set the queue name to lpt1 or lpt2.Name: You can designate a name for the printer.Location: You can enter the location of the printer.Printer: Select the printer model that is attached to the server.

5. Click "Add" to complete the printer installation.

#### • MAC 10.3.x

To enable LPR Printing in Macintosh 10.3.x, please follow the procedures below.

1. In the Desktop, click "System Preferences".



2. Click "Print & Fax".

00		Sy	stem Prefere	ences		
ersonal						
E New		-		1	Ó	
ppearance	Desktop & Screen Saver	Dock	Exposé	International	Security	
ardware						
6		$\mathbf{Q}$	9	H		
Ds & DVDs	Displays	Energy Saver	Keyboard & Mouse	Print & Fax	Sound	
nternet &	Network					
		Ø				
.Mac	Network	QuickTime	Sharing			
ystem						
11	9	A	()	8	2	$\bigcirc$
Accounts	Classic	Date & Time	Software Update	Speech	Startup Disk	Universal Access

3. From the "Print & Fax" screen, click "Set Up Printers...".

	Printing	Faxing	
	Set Up F	Printers	
Selected pri	nter in Print Dialog:	Last printer used	
	size in Page Setup:		•
	Share my prin	ters with other computers	

4. Click "Add" to add the new server through TCP/IP.

	Printe	er List	
Make Defa In Menu N	Utility Color     Status	Sync Show Info Kind EPSON Stylus Color EPSON Stylus Color	

5. Enter the "Printer Type", "Printer Address" and "Queue Name" and select the "Printer Model" to setup the server. Click "Add" to continue.

Printer Type: LPD/LPR

Printer Address: Input the IP Address of the server

Queue Name: The queue name of the server is "lpt1" or "lpt2".

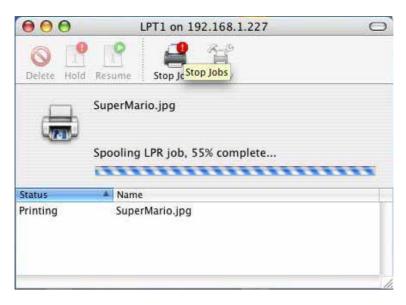
Printer Model: Select the Printer Model that is attached to the server.

00	Printer Setup U \varTheta	Itility Edit View Printers Windov Printer List	v Help
Aake		IP Printing	
Men √	Printer Type:	(LPD/LPR	
⊻ ∑	Printer Address:	192.168.1.227	
		Complete and valid address.	
	Queue Name:	lpt1	•
		Leave blank for default queue	
_	Printer Model:	EPSON	•
	Model Name	29, 601 51 0mp 11mc 11.2.3	
	EPSON Stylus CO	51, CUPS+Gimp-Print v4.2.5	6
		52, CUPS+Gimp-Print v4.2.5	
		70, CUPS+Gimp-Print v4.2.5 30, CUPS+Gimp-Print v4.2.5	A I
	Er Solv Stylus Ct	50, C0F3+Gimp+Finit V4.2.5	
		(Cancel) (A	dd

6. The server is installed completely. You can see it in the "Printer List".

	Printer Setup	Utility	/ Edit	View	Printers	Window	Help		 Wed 11:42 P	M
00	)					Printer Lis	it.			C
-		-	2-0	×	0					
ake De Menu		Delete	Utility C		Show Info	in i			 Host	-
V	ELPT1 on	192,168		310103		EPSON Style	us C61, CUPS+	Gimp-Print v4.2.5	most	
<b>1</b>	# PS000888							UPS+Gimp-Print v4.		
1	# PS123482							UPS+Gimp-Print v4.		
-		- optie				Li soli sijis		and the second se		

7. You can print a file to check whether the server is installed successfully.



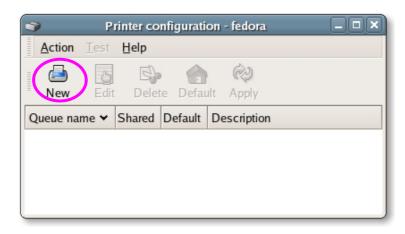
#### 8.5.1.3 Linux/Unix

The server is available for TCP/IP printing by Unix/Linux LPD (Line Printer Daemon) protocol. This section explains how to set the server with the LPD protocol in the Unix/Linux system. The following procedures are running in the Fedora Core 4 system.

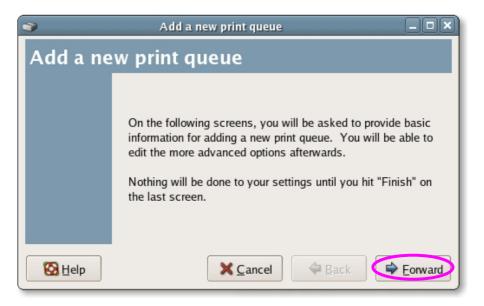


1. Select "Printing" from "System Settings".

2. Click "New" to add the printer with the server.



3. Click "Forward".



4. Set the printer queue name and the short description of the printer and click "Forward".

Add a new print queue
Queue name
Please enter a name for this queue. Choose a short name that begins with a letter and contains no spaces. Name: printer
About
If you like, you can enter a description of the printer to help you identify it more easily.
Short description: HP PSC 1210
Melp ★ Cancel ★ Back Eonward

5. In the following screen, please configure as below. Then click "Forward" to continue.

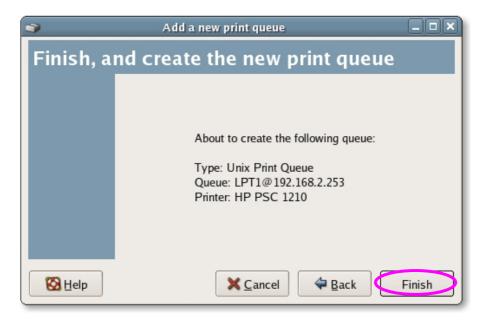
Select a queue type: Select "Network Unix (LPD)" as the queue type. Server: Enter the IP Address of the server, for example: 192.168.2.253. Queue: Set the queue name to lpt1 or lpt2.

ueue type	Add a new print queue	
Select a queue type:	Networked <u>U</u> NIX (LPD)	\$
Server: 192.168.2.253	Queue:	
🚱 <u>H</u> elp	X Cancel	🗢 Back 🕞 Eorwa

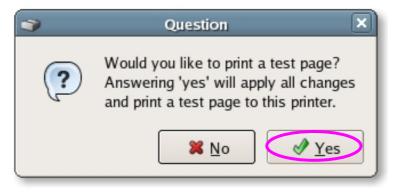
6. Select the printer manufacturer and model and click "Forward".

3	Add a new print queue	
Printer mode	I	
	ufacturer and model. Depending eue is configured, you may need PostScript option here.	Notes
HP		\$
PSC 1205		
PSC 1210		=
PSC 1300		-
S Help	X Cancel 4 Back	Eorward

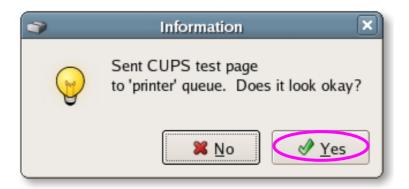
7. Please review the settings. If the settings are no problem, click "Finish"



8. To print a test page and apply all the settings, please click "Yes".



 If the test page is printed without problem, please click "Yes". If it is failed to print, please click "No" to go back to "Printer configuration - fedora" screen and configure again.



### 8.5.2 IPP Printing

The server can support IPP printing in Windows 2000/XP/2003 by default. By using the IPP printing, you can share the printer to all the PC's that can access the print server by IP. You can even share your printer to Internet users.

Please perform Window's standard *Add New Printer* procedure.

- 1. Click "Start", choose "Settings" and select "Printers and Faxes".
- 2. Click "Add a Printer".
- 3. The "Add Printer Wizard" is displayed. Click "Next".



4. Select "A network printer, or a printer attached to another computer". Click "Next".

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use: <ul> <li>Local printer attached to this computer</li> <li>Automatically detect and installing Plug and Play printer</li> <li>A network printer, or a printer attached to another computer</li> </ul>
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< <u>B</u> ack <u>N</u> ext > Cancel

5. Select "Connect to a printer on the Internet or on a home or office network" and enter the URL of server. The URL format is "http://IP Address of the Server:631/Queue Name". The IP Address should be the server's IP Address. The number 631 is IPP standard port number. Queue Name is the queue name of the USB port that your printer is connected to. The default queue name is "lpt1" for printer attached to USB Port 1 and "lpt2" for printer attached to USB Port 2. One example of the URL is http://192.168.2.2:631/lpt1. After entering the URL of the server, click "Next".

Add Printer Wizard			
Specify a Printer If you don't kno that meets your	w the name or address of the printer, you can search for a printer 🛛 🛛 🕵 🖊		
What printer do O Bro <u>w</u> se for a	you want to connect to? a printer		
O <u>C</u> onnect to t	his printer (or to browse for a printer, select this option and click Next):		
Name:			
Exa	mple: Weerver) printer		
⊙ C <u>o</u> nnect to a	a printer on the Internet or on a home or office network:		
URL: http	p://192.168.2.2:631/lpt1		
Exa	Example: http://server/printers/myprinter/.printer		
	< Back Next > Cancel		

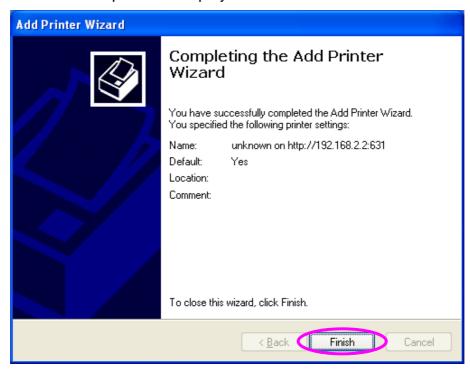
 Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.

Add Printer Wizard	
Install Printer Software The manufacturer and model of	determine which printer software to use.
	d model of your printer. If your printer came with an installation ar printer is not listed, consult your printer documentation for
Manufacturer 🔼	Printers 🔼
Gestetner	HP LaserJet IIP PostScript Cartridge v52.2
IBM	HP LaserJet HP LaserJet Plus
infotec Iwatsu	HP LaserJet Series II
💱 This driver is digitally signed.	Windows Update
Tell me why driver signing is imp	ortant
	< Back Next > Cancel

7. Choose to set the print whether as a default printer or not. Click "Next".

Add Printer Wizard		
Default Printer Your computer will always send documents to the default printer unless you specify otherwise.	Þ	
Do you want to use this printer as the default printer? ⊙ <u>Yes</u> ○ N <u>o</u>		
< Back Next > Cancel		

8. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".



# 8.6 FTP/File Server

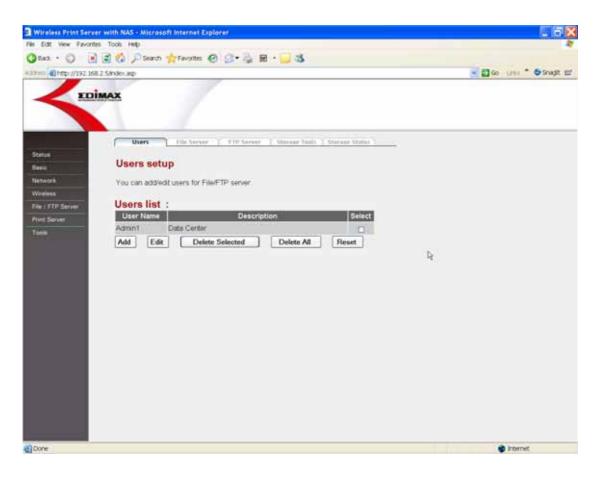
The server provides FTP/File Server function which let you share a USB storage device to all PCs in your Intranet/Internet. It supports SAMBA protocol in File Server, let you share files via Network Neighborhood. And also supports FTP Server for your FTP clients to upload/download files from the server.

When you start to use the FTP/File server, please read the following information carefully.

- 1. This server supports USB mass storage with FAT16/32, EXT2, EXT3 and NTFS file systems. This server can support "Read Only" when you use the partition with NTFS file system.
- 2. The maximum file size of a single file is less than 2GB when using a partition with FAT16/32 file system due to operating system limitation, whereas for a partition with EXT2/3 file system, the file size is up to 4GB.
- 3. The maximum number of users you are able to set for sharing FTP/File server is 32.
- The maximum users that reserve the connection (such as open and edit the files directly through the server) to the FTP or File Server concurrently are 10 users.

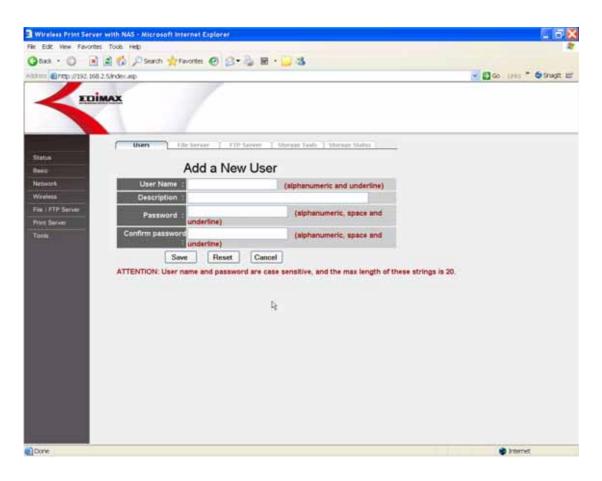
# 8.6.1 Users

This page allows you to add/edit/delete users for FTP/File server.



Parameters	Description	
Add	Click "Add" and fill the information in the "Add a New User" page to add a new user for FTP/File server.	
Edit	You can select any user in Users list and click "Edit" to modify the profile.	
Delete Selected	Click "Delete Selected" to delete the selected users in Users list.	
Delete All Click "Delete All" to delete all the users in Users list.		
Reset	Click "Reset" to reset selection in Users list.	

#### • Add/Edit Users

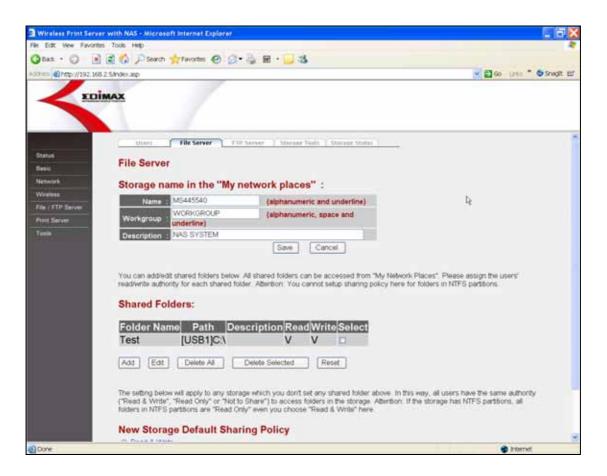


Parameters	Description
User Name	Enter the user name of this user.
Description	Enter the description for this user.
Password	Set the password for the user to logon to the USB mass storage.
Confirm Password	Re-type the password of this user for confirmation.

Click **<Save>** at the bottom of the screen to save the above configurations. *Note: The max number of users you are able to set for sharing FTP/File server is 32.* 

# 8.6.2 File Server

You can add/edit the File Server name, shared folders and sharing policies for sharing files via "My Network Places".



Parameters	Description	
Name	The File Server name that shows in "My Network Places".	
Workgroup	The workgroup that the server will be joined in "My Network Places". By default, the workgroup is "WORKGROUP".	
Description	A brief description for this File Server. This string will be shown at the detailed information in "My Network Places".	
Add	Click "Add" and fill the information of the "Add/Edit Shared Folder" page to add a new shared folder for File server.	
Edit	Select any shared folder in Shared Folders list and click "Edit" to modify its setting.	

Parameters	Description
Delete All	Click "Delete All" to delete all the shared folders in Shared Folders list.
Delete Selected	Click "Delete Selected" to delete the selected shared folders in Shared Folders list.
Reset	Click "Reset" to reset selection in Shared Folders list.
	You can set a default sharing policy (Read & Write, Read Only or Not to Share) to any USB storage which you don't set any shared folder. All users will have the same authority to share all folders in the storage.
New Storage Default Sharing Policy	Note1: If you have set shared folders and the user's read/write authority, the "New Storage Default Sharing Policy" you set here will not enable.
	Note2: If the storage has NTFS partitions, all folders in NTFS partitions are "Read Only" even you choose "Read & Write" here.

### • Add/Edit Shared Folder

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	Item       Item	
<b>a</b> ]		🔮 Internet

Parameters	Description		
Folder Name	Define the shared folder name.		
Shared Folder's Path	Click "Browse" to open the explorer window to select the shared folder path or click "Share all folders in storage" to share the whole storage.		
Users	Here you can assign some users with read/write authority for this shared folder. Select the users in "System Users" and click "Add" to add into "Share Users". Click "Add All" to add all users. Select the users in "Share Users" and click "Delete" to remove the selected users. Click "Delete All" to remove all users.		

Click **<Save>** at the bottom of the screen to save the above configurations.

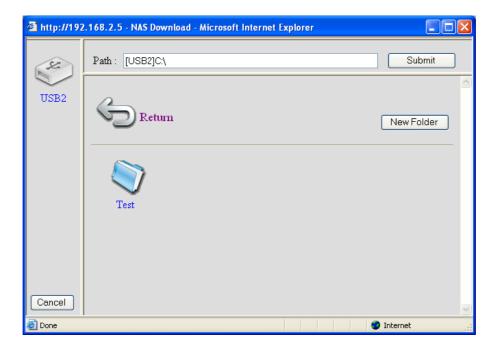
Parameters	Description	
Authority	Here you can assign the read/write authority for this shared folder. You can select "Read Only" for read only sharing or select "Read & Write" to give users full access right.	
Description	Fill the share comments for this share item here.	

Click **<Save>** at the bottom of the screen to save the above configurations. *Note: You can not set sharing policy here for folders in NTFS partitions.* 

### Browser Shared Folder's Path

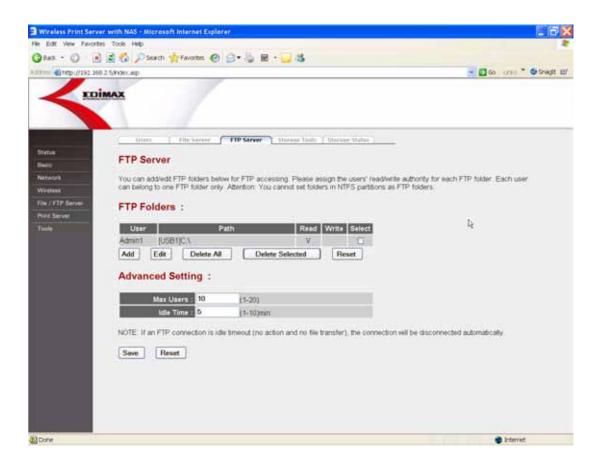
When you click the "Browse" button, you can see the following pop-up window that shows the USB mass storage devices. Please select the USB devices from left panel, the right panel will show the directories in this USB storage device. Choose the folder you want to share, and click "Submit" to select this folder for sharing. You can also click "New Folder" to create a new share folder.

Note: Only the folders in USB storage devices will be shown as icons in the pop-up window due to the share function is restricted to folders, not files.



# 8.6.3 FTP Server

You can add/edit shared folders and sharing policies for sharing files via FTP service.



Parameters	Description	
Add	Click "Add" and fill the information in the "Add/Edit FTP Folder" page to add a new shared folder for FTP server.	
Edit	Select any shared folders in FTP Folders list and click "Edit" to modify its setting.	
Delete All	Click "Delete All" to delete all the shared folders in FTP Folders list.	
Delete Selected Click "Delete Selected" to delete the selected sh folders in FTP Folders list.		
Reset	Click "Reset" to reset selection in FTP Folders list.	

Click <Save> at the bottom of the screen to save the above configurations.

Parameters	Description
Max Users	Set the maximum concurrent users for the FTP server. The range is from 1 to 20.
Idle Time	Set the time slice for FTP server waits to disconnect a FTP client when a FTP client is inactive. The available idle time is 1-10 minute(s).

Click **<Save>** at the bottom of the screen to save the above configurations.

### Add/Edit FTP Folder

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EDIMAX	
Srahus Srahus Add/Edit FTP Folder Add/Edit FTP Folder Network User: Admin1 Shared folder's Path File J FTP Server Authority: Read Only O Read & Write Print Server Dearth Dearth	
Save Reset Cancel	
a) Done	🔮 internet

Parameters	Description
User	Select the user who is authorized to share the folder via FTP Server.
Shared Folder's Path	Click "Browse" to open the explorer window and select the shared folder path.

Click **Save>** at the bottom of the screen to save the above configurations.

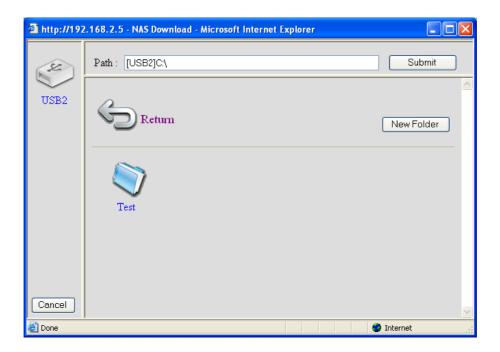
Parameters	Description
Authority	Here you can assign the read/write authority for this
	shared folder. You can select "Read Only" for read only
	sharing or select "Read & Write" to give users full access
	right.

Click **Save>** at the bottom of the screen to save the above configurations. *Note: You can not set sharing policy here for folders in NTFS partitions.* 

### • Browser Shared Folder's Path

When you click the "Browse" button, you can see the following pop-up window that shows the USB mass storage devices. Please select the USB devices from left panel, the right panel will show the directories in this USB storage device. Choose the folder you want to share, and click "Submit" to select this folder for sharing. You can also click "New Folder" to create a new share folder.

Note: Only the folders in USB storage devices will be shown as icons in the pop-up window due to the share function is restricted to folders, not files.



### 8.6.4 Storage Tools

You can use the storage tools here to format, add or remove partitions in the storage attached to USB Port 1.

Note1: It is recommended that use the Storage tools to partition and format the USB storage that you want to share in the network (usually the disk is brand new or no need to move to other PC environment).

Note2: Please make sure that the USB storage device is plugged and idle and you are the only user to format or manage the partitions.

Note 3: The partition size with FAT16 file system should be less than 2GB, and for FAT32 or EXT2 file system, the partition should be less than 160GB.

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File Edit View Favorites								27
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A-3.3	2.5/hdec.ap							🖉 🛃 Go 🛛 Linits 🍍 🚭 Shugit 🖽
Seature Deale Network Workess Fels / ITP Server Print Server Treefy	you are the c format this p Format tool c storage with USB Por 1 : Partition	ow shows all st only user in the artition or remo annot format th FAT32	orage status sotup page we other part e partition la Partition & I Start Cytinder 1	and the sto ibon. This rger than	File File FAT32	arbtions or remov	e. Before you apply a nning during the whol a partition of the store	any setting, please make sure that le progress. Otherwise, it may age attached to USB Port 1. The 32MB when you format the

Parameters	Description	
Auto Partition & Format	By clicking this button, the system will partition and format the USB storage device in USB port 1 to FAT 32 file system automatically.	
Partition	The partition names in the USB storage device.	
Size	Total available space of this partition.	
Start Cylinder	The first cylinder of the partition.	
End Cylinder	The last cylinder of the partition.	
File System	The file system of the partition.	
Tool	You can format your USB storage device by using this tool. This server supports to format the device in FAT16, FAT32 or EXT2 file format.	
Select	If you want to select the partition, select the check box here.	
Add a Partition	If there are free spaces in the USB storage device, you can find the button in the "Select" column. By clicking this button, you can launch the "Add a Partition" page for you to add a new partition on the USB storage device.	
Remove Selected Partitions	You can click "Remove Selected Partitions" to remove the selected partitions on USB storage device.	
Remove All Partitions	You can click "Remove All Partitions" to remove all the partitions on USB storage device.	
Reset	You can click "Reset" to reset selection in partition list.	

### • Auto Partition & Formatting

The storage tool will partition and format the USB storage device in USB1 port according to the following rules.

- 1. It partitions the USB storage device to a partition with 160GB size and formats to FAT32 file system.
- 2. If the rest of partition size is under 160GB, then it will be partitioned as a partition.

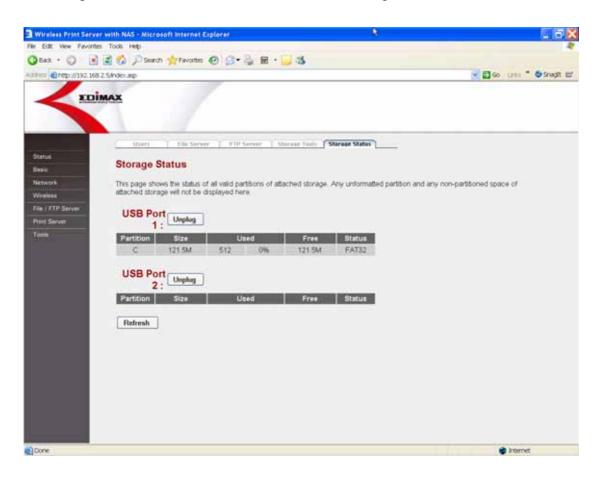
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4.53	Shdex.ap		Studt E
Statum Basic Network Worksas Zife / FTP Server Print Server Tasis	Please wait for a moment. System is adding the USB1 port.	partitions and formatting the device that is	plugged in
Done			📦 Internet

### • Add a Partition

Please set the partition size and the file system that you want to create and format a new partition in the USB storage device attached in USB port 1. Then click "Save" to add the partition.

## 8.6.5 Storage Status

This Page shows the status of attached USB storage devices.



Parameters	Description
Unplug	To safely remove the USB storage device, please click "Unplug".
Partition	The partition names in the USB storage device.
Size	Total available space of this partition.
Used	Total used space of this partition. Here shows the byte count and the percentage of the total space.
Free	This shows free space of the specified partition.
Status	The partition type of the partition. It can be FAT16, FAT32, NTFS and Linux.
Refresh	Refresh the USB storage status.

# 8.7 Tools

### 8.7.1 Configuration Tools

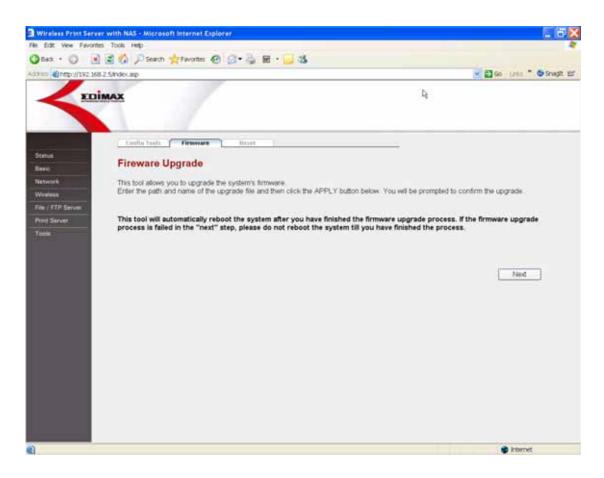
This page allows you to backup or restore the settings, and reset to factory defaults. If you want to backup the settings, please click "Save" and designate the file path where you want to save the settings. To restore the settings, please click "Browse" to select the file and click "Upload". If you want to restart the server with the factory default settings, click "Reset". You can also click the "Release 1" button in the rear panel of the server over 10 seconds to reset to default settings.

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Setting       Tennance         Setting       Tennance         Newset       Tennance <t< th=""><th>" tool to</th></t<>	" tool to

## 8.7.2 Firmware

You can upgrade new firmware of this server in this page. Click "Next" and enter the file name and the path of the firmware in the appropriate field or click "Browse" button to find the firmware file on your computer. Click "Apply" and the firmware will be updated in several minutes.

Note: If you have started upgrading firmware, you have to follow all the upgrading steps. Do not turn off the server during upgrading.



# 8.7.3 Reset

If the server stops responding correctly or stop functioning, you can perform reset to reboot the server. Your settings will not be changed.

To perform the reset, click on the "APPLY" and you will be asked to confirm the decision. Once the reset process is complete you may start using the server again.

