

LevelOne

WUS-3200

11g Wireless 2-port USB2.0 MFP Server

User's Manual

Ver 2.00-0511

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Chapter1 Introduction

Thank you for purchasing the WUS-3200 USB MFP server. This product is designed to connect your printers, USB Mass Storage/Memory Card Reader, and scanners of HP all-in-one printers (MFP), anywhere in your wired or wireless network, allowing all network users access to shared USB devices resources.

1.1 About this Manual

This manual provides introductory information as well as detailed instructions on how to set up and manage the print server in various network environments. To fully benefit from this manual, you should be familiar with basic networking principles.

These instructions are based on the settings in a new MFP server. To reload the Factory Parameters, you can perform a Factory Default, which will restore most of the settings. See "Factory Default" on page.

1.2 Support Services

Should you require any technical assistance, please contact your product reseller. Or you can visit our website at http://www.level1.com for latest product information.

This manual is subject to change without notice.

Chapter2 Product Overview

2.1 Package Contents

Verify that nothing is missing from the WUS-3200 USB MFP server package by using the checking list below. Please contact your dealer if anything is missing or damaged. All packing materials are recyclable. Please confirm the items in the Package below:

- One WUS-3200 USB 2.0/MFP Server.
- One WUS-3200 MFP Server Control Center Software CD.
- One AC Adaptor.
- This Quick Installation Guide.

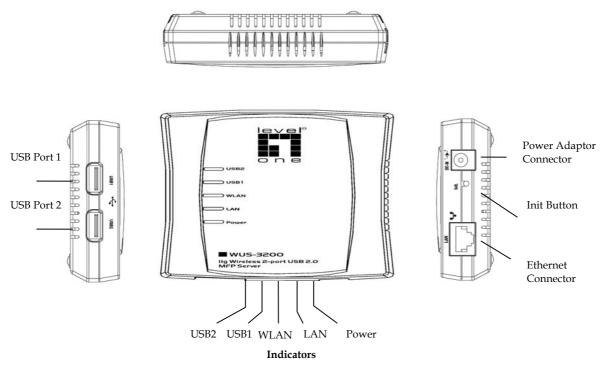
2.2 WUS-3200 USB MFP Server Product CD

The WUS-3200 USB MFP Server Product CD provides an easy-to-use control center software for Windows PC, and user documents.

2.2.1 Start-up Procedures for Windows

If your computer is configured to auto start CDs, the WUS-3200 USB MFP Server Product CD will start automatically when inserted. You can also navigate to the CD and start the autorun.exe file from within the Windows file manager.

2.3 Physical Description



2.3.1 Ethernet Connector

The network connector of WUS-3200 is designed for 10 Mbps or 100 Mbps Ethernet networks and connects to the network via a twisted pair category 5 cable (10baseT and 100baseTX) or better.

2.3.2 Wireless

The wireless network access (802.11b/g) is enabled by inner antenna.

2.3.3 USB Host Ports

WUS-3200 has two USB host ports which are USB 1.1/2.0 low, full and high speed compliant and successfully tested with USB 1.1/2.0 printers, Mass Storage and HP all-in-one (HPAIO) series printers (MFP).

2.3.4 Init Button

The **Init** button is used for:

- printing a page of configuration report to check the connection to the printer and showing the MFP server settings
- performing a Factory Default of the MFP server, which will restore

most of the parameters and settings to factory default values

 performing the new firmware upgrade using in fallback. Please refer to Chapter 14, procedure C for detail description.

2.3.5 Indicators

- Power Indicator is lit while power is applied. If it is not lit, or if it blinks, there is a problem with MFP server or Power Adapter.
- LAN Indicator is lit while Ethernet network is applied. If it is not lit, it indicates that the server does not connect to Ethernet network.
- Wireless Indicator is lit while wireless network is applied. If it is not lit, it indicates that the server does not connect to wireless network (in the last firmware implementation, wireless station mode access is disable while Ethernet network is applied).
- USB1 Indicator is lit while an USB device connects to USB1 Port of MFP server. If it is not lit, or if it blinks, there is a problem with the USB device or the MFP server.
- USB2 Indicator is lit while an USB device connects to USB2 Port of the MFP server. If it is not lit, or if it blinks, there is a problem with the USB device or the MFP server.

2.4 Installation Methods

2.4.1 Installation and Integration

Refer to the table below to select the appropriate installation method. MFP Server Control Center tool is available on the WUS-3200 USB MFP Server Product CD or from LevelOne's web site.

Function	OS	Method	Description
		Standard Windows Add Printer Wizard	Installation of LPR, Raw TCP (JetDirect), Local Port Using SMB, and IPP
Print	Windows	MFP Server Control Center Tool	Installation of LPR, Raw TCP, Local Port Using SMB
Server	Apple MAC OS x	Printer Setup Tool	LPR, Raw TCP (JetDirect) SMB, IPP
		Edit /etc/printcap File	Using vi or other editors to edit the <i>printcap</i> file
	Unix/Linux	RedHat Linux Printer System Manager	Using X-Windows Interface to operate
	Windows	None	Don't need installation
File Server	Apple MAC OS X	None	
	Unix/Linux	Samba	Use smbclient in Samba
	Windows	MFP Server Control Center tool	Installation of SANE Client and SANE-Twain Driver
Scan Server	Apple MAC OS X	Download and install SANE	Use terminal
	Unix/Linux	Download and install SANE Frontends	Use SANE Applications such as XSANE

2.4.2 Configuration and Management

WUS-3200 USB MFP server can be configured and managed from its internal web pages, using HTTP or from user software: *WUS-3200 MFP Server Control*

Center, using Windows. These web pages or PC tools offer you a management tool that is suitable for all supported network environments.

2.5 Features and Benefits

WUS-3200 provides the following features and benefits:

- 1. **Reliability:** The MFP server provides high performance and reliability combined with low power consumption.
- 2. *Flexibility:* The MFP server supports print/File/Scan sharing in all major computer systems and environments.
- 3. **Portability:** Wireless connectivity eases the setup and movement of the MFP + MFP server in your home or office environment.
- 4. *Easy to Install:* The MFP server installs, operates and is managed in a reliable and easy fashion.
- 5. **Security:** You can assign administrator name and password to restrict login, and wireless access can be secured by WEP64, WEP128, or WPA-PSK/TKIP.
- 6. *Monitoring:* The MFP server's web pages and user software allow you to continuously monitor MFP status.
- 7. *Future Proof:* The firmware stored in the MFP server Flash memory can be upgraded over the network. This allows you to quickly update and enhance its operational features when new MFP server software becomes available.

Chapter3 Basic Installation

3.1 Connecting the Hardware

- 1. Make sure that your USB devices are switched off and that the MFP server's Power Adapter is disconnected.
- 2. Connect the USB devices to the USB ports using the USB cables.
- 3. Connect the MFP server to the network using a twisted pair category 5 cable, 10baseT or 100baseTX (after the wireless parameters are set correctly, that cable should be removed to let wireless station mode work).

After the wireless parameters are set correctly, that cable should be removed to let wireless station mode work. However, LAN access is still referable, and can work together with wireless ad-hoc mode.

- 4. Turn on the USB devices and make sure it is ready for use.
- 5. Connect the Power Adapter to the server. The power indicator will light up and USB1 and USB2 indicators will flash in turn. When the Link indicator lights up, the server is correctly connected to the network. When USB1 and USB2 indicators do not flash, the server starts to work normally.
- 6. If you connected USB HP printers to server, please press the Init button for 3 seconds on the server once to print a page of server configuration report.

3.2 Wireless connection

3.2.1 Preliminary

- Before you can access wireless network, wireless parameters should be set correctly. You have to setup the first wireless parameter set through LAN connection.
- Wireless access can be set as 1. Infrastructure (station) mode, which need an access point to route network messages, or 2. Ad-hoc mode, which connect nearby wireless PC/devices with the same SSID (Service Set ID).
- Wireless access can be secured by WEP64, WEP128, or WPA-PSK/TKIP.
- In infrastructure mode, if network administrator wants to change any security related parameters, WUS-3200 **should be** changed first,

and then access point. If parameters mismatch causes wireless access is not allowed, you **have to** modify those parameters through LAN connection.

In infrastructure mode, the maximal transfer rate is 54 MBits depending on access point's capability. In ad-hoc mode, only 802.11b (the maximal transfer rate is 11 MBits) is allowed by specification.

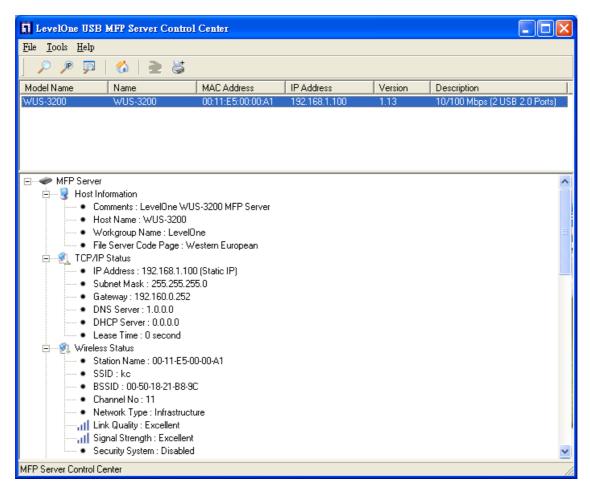
3.2.2 Set Wireless Configuration Using MFP Server Control Center

- 1. Install MFP Server Control Center. MFP Server Control Center is available in the WUS-3200 USB MFP Server Product CD.
- 2. Start MFP Server Control Center and Auto-searching MFP server window will appear.

accessories		
🛅 Games		
🛅 LevelOne	🔹 🖬 MFP Server Control C	Center 🕨 📊 Image Burner
Morton Ghost 2003		MFP Server Control Center
CoundMAX		🛃 Uninstall MFP Server Control Center

■ If the wireless parameters are not correct or not set yet, you have to use LAN to access MFP Server Control Center.

3. If the tool finds MFP servers in your local area network, then you have to select a MFP server from the server list.



4. Double click the highlight list and type the server's administrator (default: *admin*) and password (default: *admin*).

Login to	₩US-3200	
7	Administrator : admin Password :	
	🖌 Login	Cancel

5. After you login successfully, from the Server menu, select wireless. The set Wireless dialog appears.

LevelOne USB MFP Serv	er Control Center		
Supported Protocols General Configuration	User Accounts SNMF	P Email TCP/IP	Maintenance Wireless
Set Wireless Configuration Region or Domain Station Name Network Type SSID Channel No Security System			
	C Reset	🗸 Apply	<u>I</u> <u>C</u> lose

- 6. In order to join an existing wireless network, you have to set the correct network type (infrastructure or ad-hoc), SSID, and the correct security method with the correct key information.
- 7. If the wireless network is secured by WEP64 or WEP128, authentication method, key index, and WEP key must be set correctly.

LevelOne USB MFP Serve	r Control Center
Supported Protocols	User Accounts SNMP Email Maintenance USB Device Information TCP/IP Wireless
Set Wireless Configuration	USA OU-11-E5-00-00-42 Infrastructure LevelOne Auto
WEP Settings Authentication Key Size Key 1 C Key 2 Key 3 Key 4	Shared Key 64 Bit (Hex - 10 chars) 1234567890
	🔁 Reset 🗸 Apply 👖 Close

8. If the wireless network is secured by WPA-PSK/TKIP, the shared key must be set correctly.

	I ,	User Accounts	SNMP	Email	Maintenance
Genera	al Configuration	USB Device In	formation	TCP/IP	Wireless
<u>Set Wir</u>	eless Configuration				
3	Region or Domain	USA	•		
C ob	Station Name	00-11-E5-00-00-42			
	Network Type	Infrastructure	-		
	SSID	LevelOne			-
	Channel No	Auto 💌			
	Security System	WPA-PSK 💌			
WPA-P	SK Settings				
	Key Format	Passphrase (8~63) chars) 💌		
	Pre-Shared Key	1234567890			
	Encryption	TKIP 💌			
		Note : WPA-PSK is	s not available	with ad-hoc netv	vorks.

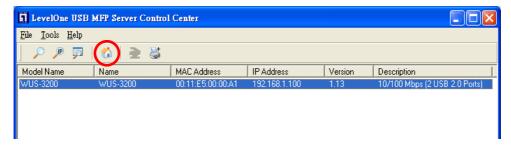
- 9. Click **Apply** to save your settings. And the server will reboot.
- 10. You have now finished the procedure of setting the wireless parameters.

In infrastructure mode, WUS-3200 searches all channels to join the matched wireless service set. In ad-hoc mode, WUS-3200 searches all channels to join the matched wireless ad-hoc service set too, however, if none are found, WUS-3200 creates that service set in the assigned channel.

In ad-hoc mode, WPA-PSK/TKIP is not allowed.

3.2.3 Set Wireless Configuration Using Server's Web Pages

1. You can see the IP address of MFP server in the server list. Open IE Browser and type server's IP address or click the Home Icon of MFP Server Control Center.





 \simeq If the wireless parameters are not correct or not set yet, you have to use LAN to access Web Pages.

If the TCP/IP parameters of WUS-3200 are not correct, you have to use MFP Server Control Center to set the TCP/IP parameters first.

2. Go to the web page and click **CONFIG** icon.

LevelOn	E	_
HOME ST	ATUS CONFI	G CONTACT US
LEVELC	INE WL	JS-3200
	Wel	come to the WUS-3200 web configuration. • Click STATUS to show your system status. • Click CONFIG to adjust each setting of the device. • Click CONTACT US to view the company info.

3. Login your administrator (default: *admin*) and password (default: *admin*).



Administrator	admin
Password	••••
	ogin Cancel

4. Click **Wireless** icon.

LevelOne				
HOME STAT	US CONFIG C	CONTACT US		English Deutsch
CONFIG				
General Configura	tion Se	et Wireless Cor	ufiguration	
USB Device Inform	nation	asic		
TCP/IP		egion or Domain ation Name	USA 00-11-E5-00-00-42	
Wireless		etwork Type	Infrastructure 💌	
Supported Protoco	ols SS	SID		
User Accounts		nannel No	Auto 💌	
SNMP		curity curity System	Disable 🗸	
Email				
Restart Server			Submit Reset	
Maintenance				

- 5. In order to join an existing wireless network, you have to set the correct network type (infrastructure or ad-hoc), SSID, and the correct security method with the correct key information.
- 6. If the wireless network is secured by WEP64 or WEP128, key index and WEP key must be set correctly.

LevelOne					
HOME STATUS COM	FIG CONTACT US	English Deutsch			
Config					
General Configuration	Set Wireless Configuration	L			
USB Device Information TCP/IP Wireless Supported Protocols User Accounts SNMP Email	Basic Region or Domain USA Station Name 00-11-E5-00 Network Type Infrastructure SSID LevelOne Channel No Auto ♥ Security Security Security System WEP WEP Settings Authentication	V Shared Key V			
Restart Server Maintenance	Key Size Key 1 Key 2 Key 3 Key 4 Submit	64 Bit (Hex - 10 chars) ♥ ○ ○ 1234567890			

7. If the wireless network is secured by WPA-PSK/TKIP, the shared key must be set correctly.

LevelOne	
HOME STATUS CON	FIG CONTACT US English Deutsch
CONFIG	
General Configuration	Set Wireless Configuration
USB Device Information	Basic Region or Domain USA 🖌
Wireless	Network Type Infrastructure 🖌
Supported Protocols	SSID LevelOne Channel No Auto
User Accounts	Security Security System WPA - PSK 💌
Email Restart Server	WPA-PSK Settings Key Format Passphrase (8~63 chars) 💌 Pre-Shared Key 12345678909
Maintenance	Encryption TKIP Note: WPA-PSK is not available with ad-hoc networks.
	Submit Reset

- 8. Click **Submit** to save your settings. And the server will reboot.
- 9. You have now finished the procedure of setting the wireless parameters.

In infrastructure mode, WUS-3200 searches all channels to join the matched wireless service set. In ad-hoc mode, WUS-3200 searches all channels to join the matched wireless ad-hoc service set too, however, if none are found, WUS-3200 creates that service set in the assigned channel.

▶ In ad-hoc mode, WPA-PSK/TKIP is not allowed.

3.3 Assigning an IP Address to the MFP Server

3.3.1 Preliminary

- If you have a DHCP server on your network, your MFP server will receive an IP address automatically. The IP address will then appear on user software: WUS-3200 MFP Server Control Center or on the page of configuration report that you printed earlier. If your DHCP server does not give IP address to the server, the server will use the Factory IP address: 192.168.1.100.
- If you are not working in a DHCP network, you need to set an IP address of MFP server manually.

3.3.2 Ethernet Address

You do not need to know the Ethernet address of your WUS-3200 USB MFP server for assigning an IP address to it. MFP Server Control Center software can automatically search MFP servers and list their Ethernet addresses. Besides, you can find Ethernet address that is located on the backside label of the server.

3.3.3 IP Address

Unless you are assigning an IP address using DHCP, you must obtain an unused IP address from your network administrator.

3.3.4 Methods for Setting the IP Address

You can set the IP address of your WUS-3200 USB MFP server using one of the following methods, depending on your network operating environment:

- Automatic IP Address Assignment
- Manual IP Address Assignment

3.3.5 Host Names and Host Name Rules

The host name of the WUS-3200 USB MFP server is specified by "*WUS-3200*" in Factory Parameter. If you put two or more MFP servers in your local area network, to avoid using same host names you have to change the host names by using MFP Server Control Center or server's web pages. If your host name is longer than 15 characters, WUS-3200 USB MFP server limits the length of host name to 15 characters.

3.3.6 Set the IP Address Using DHCP

Follow the instructions below to get an IP address using DHCP:

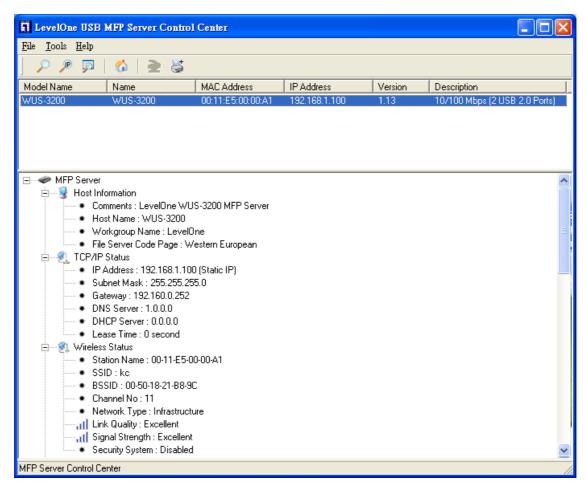
- 1. Edit or create a scope in the DHCP manager of the DHCP daemon. The entries included in this scope should contain the following parameters:
 - range of IP addresses
 - subnet mask
 - default router IP address
 - DNS server IP address
 - lease duration
- 2. Activate the scope. The MFP server automatically gets the DHCP parameters. If you are using DNS, you may include at least one DNS server IP address in the DHCP scope or manually set DNS server IP in MFP server's web pages or MFP Server Control Center tool.

3.3.7 Set the IP Address Using MFP Server Control Center

1. Start MFP Server Control Center and Auto-searching MFP server window will appear.

Accessories	• 2	the Product of the second		ent and the second
🛅 Games	- 1	a Provide State of the second state of the		the second s
🛅 LevelOne	+ 🖬	MFP Server Control Center 🔸	61	Image Burner
Morton Ghost 2003	+ 23		5	MFP Server Control Center
SoundMAX	+		B	Uninstall MFP Server Control Center

2. If the tool finds MFP servers in your local area network, then you have to select a MFP server from the server list.



3. Double click the highlight list and type the server's administrator (default: *admin*) and password (default: *admin*).

Login to	WUS-3200			X
R	Administrator :	admin		
	Password :	****		
	Login	×	Cancel	

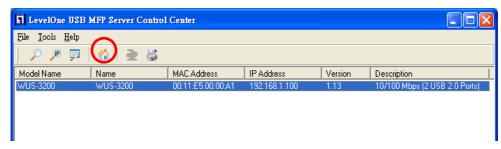
4. After you login successfully, from the Server menu, select TCP/IP. The Set IP Address dialog appears.

LevelOne USB MFP Server Control	Center
Supported Protocols User Accou General Configuration USB D	ints SNMP Email Maintenance evice Information TCP/IP Wireless
Set TCP/IP Configuration Current IP : 192.168.1.100	ICP
Manual DNS	1.0.0.0
 Static IP IP Address 	192 . 168 . 1 . 100
Subnet Mask	255 255 255 0 192 160 0 252
DNS Server	1.0.0.0
	CReset 🖉 Apply

- 5. Click the button that corresponds to your choice of IP setting method (static or dynamic using DHCP). When assigning a static IP address you also have to define Subnet Mask and Default Gateway. If you choose **Automatically get IP by DHCP**, you can use desired DNS by clicking the **Manual DNS** button and manually assigning a DNS.
- 6. Click **Apply** to save your settings. And the server will reboot.
- 7. You have now finished the procedure of setting the IP address.

3.3.8 Set the IP Address Using Server's Web Pages

1. You can see the IP address of MFP server in the server list. Open IE Browser and type server's IP address or click the Home Icon of MFP Server Control Center.





If the TCP/IP parameters of WUS-3200 are not correct, you have to use MFP Server Control Center to set the TCP/IP parameters first.

2. Go to the web page and click **CONFIG** icon.



3. Login your administrator (default: *admin*) and password (default: *admin*).

Login to Lev	elOne WUS-3200
Administrator	admin
Password	••••
	ogin Cancel

4. Click **TCP/IP** icon.

LevelOne		
HOME STATUS CONFI	G CONTACT US	English Deutsch
CONFIG		
General Configuration	Set TCP/IP Configuration	
USB Device Information	TCP/IP	
TCP/IP	Automatically get IP by DHCP Manual DNS 1.0.0.0	
Wireless	O Static IP	
Supported Protocols	IP Address 192.168.1.100 Subnet Mask 255.255.255.0	
User Accounts	Default Gateway 192.160.0.254	
SNMP	DNS Server 1.0.0.0	
Email		
Restart Server	Submit Reset	
Maintenance		

- 5. Click the button that corresponds to your choice of IP setting methods (static or dynamic using DHCP). When assigning a static IP address you also have to define Subnet Mask and Default Gateway.
- 6. Click **Submit** to save your settings. And the server will reboot.
- 7. You have now finished the procedure of setting the IP address.

3.4 Naming Your USB Devices

3.4.1 Printer Names

- Default Printer Name
 - The system will set the printer model names as the default printer names. The system only allows a 12 characters long USB device name. For example, the printer model name is "psc 1310 series" and then the default printer name will be set as "psc 1310 ser".
 - 2. If system can not get the printer model (For ex, you use some parallel printers and use Parallel-to-USB cables to connect the printers), the default printer names are set as: USB1_Printer and USB2_Printer with respect to USB1 port and USB2 port.

Set Printer Name

You can set yourself printer names by MFP Server Control Center or server's web pages.

- i. Using MFP Server Control Center
 - 1. Start MFP Server Control Center and Auto-searching MFP server window will appear.
 - 2. If the tool finds MFP servers in your local area network, then you have to select a MFP server from the server list.
 - 3. Double click the highlight list and type the server's administrator (default: *admin*) and password (default: *admin*).
 - 4. After you login successfully, from the Server menu, select USB Device Information. The Set USB Device Information dialog appears.

LevelOne USB MFP Serv	er Control Center		
Supported Protocols General Configuration	User Accounts USB Device Infor	SNMP Ema mation TCF	iil Maintenance P/IP Wireless
Printer Information USB Printer Name 1 psc 1310 ser 2 2	Printer Model hp psc 1310 series	Status ready	Comment
USB Scanner Vendo	r Scanner Model psc 1310 series	Status ready	Comment multi-function periphe
<u>Storage Information</u> USB Disk Name 3 1 none 3 2 none	Disk Model none none	Status not connected not connected	Capacity O KB O KB
	🔁 Rese	t 🖉 App	ly <u>I</u> Close

- 5. Set your printer names in **Printer Name** box and then click **Apply**.
- ii. Using Server's Web Pages
 - 1. Go to the web page and click **CONFIG** icon.
 - 2. Login your administrator (default: *admin*) and password (default: *admin*).
 - 3. Click USB Device Information

CONFIG					
General Configuration	Set 1	USB Device C	onfiguration		
USB Device Information	Print	er Information			
TCP/IP	USB	Name	Model	Status	Comment
Wireless	1	psc 1310 ser	hp psc 1310 series	ready	
Supported Protocols	1182	ner Information			
User Accounts		Vendor	Model	Status	Comment
SNMP	1	HP	psc 1310 series	ready	multi-function peripheral
Email	Stora	nge Information			
Restart Server	USB	Name	Model	Status	Capacity
	1	none	none	not connected	0
Maintenance	2	none	none	not connected	0
			Submit	Reset	

4. Set your printer names in **Printer Name** box and then click **Apply**.

3.4.2 Storage Names

The local drives of the two storages in USB1 port and USB2 port are named as $USBx_DxPx$, where USBx represents the USBx port, Dx represents the the *x*-th Disk (in particular to card reader plugging in multiple cards) and Px represents the *x*-th partition.

3.4.3 Scanner Names

The name of connected scanner of HP office jet series consists of the "vender" + "model". For example, the scanner name of HP PSC 1310 series office jet is named as "*HP PSC 1310 series*".

Chapter4 Adding Printers in Windows

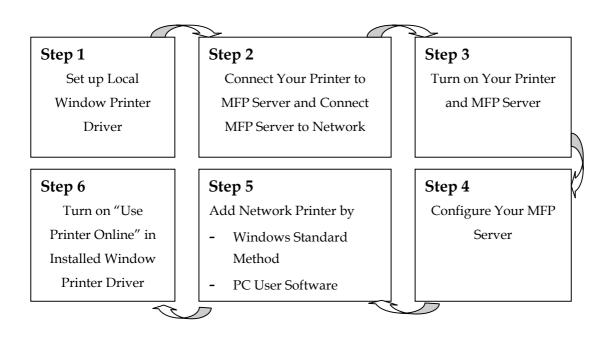
4.1 **Overview of Installation Methods**

This chapter describes how to add network printers to Windows PC.

Windows Platform	Printing Protocols	Method
Windows 98SE, ME, 2000,XP and	SMB/CIFS Printing	Standard Windows Add Printer Wizard
2003		MFP Server Control Center's Add Printer
	IPP Printing	Standard Windows Add Printer Wizard
Windows 2000, XP and 2003	LPR Printing	Standard Windows Add Printer Wizard
		MFP Server Control Center's Add Printer
	Raw TCP/JetDirect Printing	Standard Windows Add Printer Wizard
		MFP Server Control Center's Add Printer

Table List for Installing Network Printer

Steps for Installing Network Printer

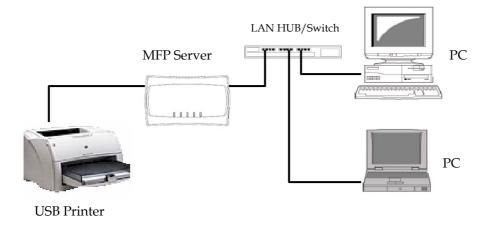


4.2 Connecting WUS-3200 MFP Server

To configure your server correctly, you have to know what type of network

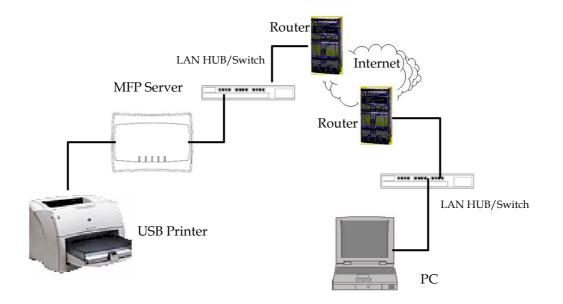
topology your server connecting to.

4.2.1 MFP Server and Windows PC on Same LAN



4.2.2 MFP Server and Windows PC on Different LANs

Example: Wired Windows PC across Internet



4.3 Setting up Local Windows Printer Driver

You are advised to install your Windows printer driver in advance. For most printers, you can install the printer drivers as the following procedure:

- 1. Click Start, click Control Panel, click Printers and Other Hardware, and then click Printers and Faxes.
- 2. Double click **Add Printer** to start the Add Printer Wizard, and then click **Next**.
- 3. Click Local printer, clear the Automatically detect and install my Plug-n-Play printer check box to avoid having to wait for the completion of another printer search, and then click Next. If you leave this option selected, Windows will attempt to find the printer itself and figure out what kind it is. If Windows does not find the printer, the wizard will continue as described in this task.
- 4. Select a Windows driver for your printer. Click Next.
- 5. Choose whether you want to share the printer with other network users. Do you want to print a test page? Select the appropriate radio button and click **Next** and **Finish**.

4.4 Adding Network Printers in Windows

Follow the instructions below to use the standard Windows Add Printer Wizard and MFP Server Control Center for adding a network printer in Windows 98 SE, ME, 2000, XP and 2003.

🖎 Note:

- 1. Before adding a network printer, you are advised to install the local Windows printer driver in advance.
- 2. Before using network printer, you have to turn on "Use Printer Online" in installed network printer driver and then you can use the printer.

4.4.1 Using Standard Windows Methods for LPR Printing Protocol

Windows Platform: Windows 2000, XP and 2003

- 1. Open Printers and Faxes
- 2. Right-click the printer for which you want to change settings, and then click **Properties/ports**
- 3. Clear **Enable bidirectional support** and click **Add port**, and then click Standard TCP/IP Port from the dropdown and click **New port**.

4. The "Add Standard TCP/IP Printer Port Wizard" will pop up and click Next.

Add Standard TCP/IP Prin	ter Port Wizard	×
	Welcome to the Add Standard TCP/IP Printer Port Wizard You use this wizard to add a port for a network printer. Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.	
	< Back Next > Canc	:el

 In the Printer Name or IP Address box, type host name of the MFP server (default: WUS-3200) or IP address of MFP server. In the Port Name box, type your desired names or USB1_LPR or USB2_LPR for printer connected to USB1 port and USB2 port, respectively.

Add Port For which device do you want to a	dd a port?
Enter the Printer Name or IP addre	ss, and a port name for the desired device.
Printer Name or IP Address:	
Port Name:	
	ß
	<pre></pre>

If your server is running on a different LAN than your Windows PC such as Internet PC, you must type server's IP address in **Printer Name or IP Address** box.

6. Click **Next**.

	rt Information Requication could not be identified				
	vice is of unknown typ properly configured.	e. Be sure that:			
	on the previous page is	s correct.			
Either correct the	e address and perform	another search o	n the network	by returning	to the
previous wizard i	name or select the devi			tress is correct	
previous wizard (page or select the devi			tress is correc	t.
previous wizard (page or select the devi			tress is correc	t.
previous wizard) Device Type	page or select the devi			fress is correc	t
	page or select the devi	ce lype if you ar		tress is correc	t.
- Device Type -		ce lype if you ar		dress is correc	t.
Device Type ③ Standard	Generic Network Ca	ce lype if you ar		dress is correc	t.

7. Click Custom/settings.

	CP/IP Printer Port W t Information Required could not be identified.		
1. The device is	vice is of unknown type. I properly configured.		
	on the previous page is co e address and perform ano	e network by returning	g to the
	page or select the device t		
Device Type			
Device Type	Generic Network Card		
a second s	Generic Network Card	ß	~
O Standard		R	

8. Click Settings and confirm that the settings are as below. The queue names are **USB1_LQ**, **USB2_LQ** for USB1 port 1 and USB2 port, respectively. Click **OK**.

Port Name:		USB1_LPR	
Printer Name or IP Address:		FPS-3003	
- Protocol	uicss.	FPS-3003	
○ Raw		⊙ LPR	
Raw Settings			
Port Number:	9100		
LPR Settings			
Queue Name:	USB1_LQ		
LPR Byte Count	ng Enable	ed	
SNMP Status Er	nabled		
Community Name:	public		
SNMP Device Inde	x 1		

9. Click **Finish**

Add Standard TCP/IP Prin	ter Port Wiz	ard	×
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type:	No LPR, USB1_LQ FPS-3003 USB1_LPR	
	To complete t	his wizard, click Finish. < Back Finish Cancel	

4.4.2 Using MFP Server Control Center for LPR Printing

Windows Platform: Windows 2000, XP and 2003

 Start MFP Server Control Center, select your MFP server and click Add Printer.

LevelOne USB MFP Server Control Center				
<u>File T</u> ools <u>H</u> elp	<u> </u>			
] 🔎 🏓 🗖	(☆ ≥())			
Model Name	Name	MAC Address	IP Address	
WUS-3200	WUS-3200	00:11:E5:00:00:A1	192.168.1.100	

 Select USB1 Port or USB2 Port to add the printer in Add the printer box, choose to use host name or IP address to represent MFP server in Select IP address or Host Name in printer port box, and select the network printing protocol of Printing with LPR (Line Printer Remote).

🖬 LevelOne USB MFP Server Control Center - WUS-3200 🛛 🔲 🗖 🔀					
Add Printer					
Add printer in USB1 Port					
Select IP Address or Host Name in printer port					
Host Name O IP Address					
Note : If your server is running on the same LAN, you shall choose Host Name.					
Select the network printing protocol					
Print with LPR (Line Printer Remote)					
Printer Port USB1_LPR					
Queue Name USB1_LQ					
C Print with Raw TCP/JetDirect Mode (Port : 9100)					
Printer Port USB1_RAW					
C Print with Network Path (SMB)					
Printer Port \\\WUS-3200\psc 1310 ser					
ApplyClose					

Solution If your server is running on a different LAN than your Windows PC such as Internet PC, you must choose IP address in Select IP address or Host Name in printer port box.

- 3. Click **Apply**.
- 4. Select the desired printer driver and click **Set Port to Printer**.

LevelOne USB MFP Serve	er Control	Center - Printer Setup 🛛 🔀
Printer Port : USB1_LPR Queue Name : USB1_LQ		실 Add New Printer
Printer Name		Port Name
🍓 \\dragonash\HP_LJ40	50	\\dragonash\HP_LJ4050
崣 hp psc 1300 series		USB1_LPR
		USB MFP 🔀 o printer success ! OK
🌅 Refresh	🟑 Set P	Port to Printer

5. If you can not find any printer driver in Printer List, please install your printer driver first or click **Add New Printer** to install the printer driver.

4.4.3 Using Standard Windows Method for Raw TCP Printing

Windows Platform: Windows 2000, XP and 2003

- 1. Open Printers and Faxes
- 2. Right-click the printer for which you want to change settings, and then click **Properties**
- 3. Clear **Enable bidirectional support** and click **Add port**, and then click Standard TCP/IP Port from the dropdown and click **New port**.
- 4. The "Add Standard TCP/IP Printer Port Wizard" will pop up and click Next.
- In the Printer Name or IP Address box, type host name of the MFP server (default: WUS-3200) or IP address of MFP server. In the Port Name box, type USB1_RAW or USB2_RAW for printer connected to USB1 port and USB2 port, respectively.

If your server is running on a different LAN than your Windows PC such Internet PC, you must type server's IP address in **Printer Name** or IP Address box.

- 6. Click **Next**.
- 7. Click **Custom/settings**.

8. The click Settings and confirm that the settings are as below. The default Port Number values are 9100, 9101 for USB port 1 and USB port 2, respectively. Refer to server's web pages or MFP Server Control Center tool, you can get exact values. Click **OK**.

^p ort Name: Printer Name or IP Address:		USB1_RAW FPS-3003	
Raw Settings			
Port Number:	9100		
LPR Settings			
Queue Name:	USB1_LQ		
LPR Byte Counting	g Enable	ed	
SNMP Status Ena	bled		
Community Name:	publi	ic	
SNMP Device Index:	5 T		

9. Click Finish.

Add Standard TCP/IP Print	ter Port Wiz	ard 🛛 🔀	
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type	FPS-3003 USB1_LPR	
	To complete	this wizard, click Finish. Kack Finish Cancel	

4.4.4 Using MFP Server Control Center for Raw TCP/JetDirect Printing

Windows Platform: Windows 2000, XP and 2003

 Start MFP Server Control Center, select your MFP server and click Add Printer.

LevelOne USB MFP Server Control Center					
<u>File T</u> ools <u>H</u> elp	<u> </u>				
」 > ▶ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓					
Model Name	Name	MAC Address	IP Address		
WUS-3200	WUS-3200	00:11:E5:00:00:A1	192.168.1.100		

 Select USB1 Port or USB2 Port to add the printer in Add the printer box, choose to use or IP address to represent MFP server in Select IP Address or Host Name in printer port box, and select the network printing protocol of Print with Raw TCP Mode.

LevelOne USB MFP Server Control Center - WUS-3200	×
Add Printer	
Add printer in USB1 Port	
Select IP Address or Host Name in printer port	
Host Name O IP Address	
Note : If your server is running on the same LAN, you shall choose Host Name.	
Select the network printing protocol	
Print with LPR (Line Printer Remote)	
Printer Port USB1_LPR	
Queue Name USB1_LQ	
Print with Raw TCP/JetDirect Mode (Port : 9100)	
Printer Port USB1_RAW	
C Print with Network Path (SMB)	
Printer Port ////US-3200/LaserJet 302	
Apply Close	
	-

Solution If your server is running on a different LAN than your Windows PC such as Internet PC, you must choose IP address in **Select IP** Address or Host Name in printer port box.

- 3. Click Apply.
- 4. Select the desired printer driver and click **Set Port to Printer**.

Le	velOne USB MFP Server (Control Center - Printer Setup 🛛 🔀
	Printer Port:USB1_RAW Port:9100	실 Add New Printer
	Printer Name	Port Name
	🚵 \\dragonash\HP_LJ4050	\\dragonash\HP_LJ4050
	崣 hp psc 1300 series	USB1_RAW
		LevelOne USB MFP 🗙
		Set port to printer success !
		CCC OK
	💽 Refresh	Set Port to Printer

5. If you can not find any printer driver in Printer List, please install your printer driver first or click **Add New Printer** to install the printer driver.

4.4.5 Using Standard Windows Methods for SMB/CIFS Printing

- Before using SMB/CIFS printing, you have to login the SMB/CIF Print/File server in advance and then you may use it; otherwise you have to disable SMB/CIFS Print/File Server Authentication.
- ➢ If you use SMB on Windows 98SE/Me with Server Authentication, you must login to your Windows 98SE/Me using the same user name as in server's User Account.

Windows Platform: Windows 98SE, ME, 2000, XP and 2003

- 1. Open **Printers and Faxes**
- 2. Right-click the printer for which you want to change settings, and then click **Properties.**
- 3. Click the **Ports** tab.
- 4. Clear Enable bidirectional support and click add port, and click Local Port, and then click New Port... in the Printer Ports box.

Printer Ports	? 🗙
Available port types:	
Adobe PDF Port Local Port Standard TCP/IP Port	
New Port Type	New Port Cancel

5. In the **Port Name** box, type the path to the printer in the following format: "\\ server's host name\printer name" or "\\ server's IP address\printer name" (Please refer to server's web pages or MFP Server Control Center tool to know exact path). For example: if you set server's host name as WUS-3200 and printer name (USB1 port) as psc 1300 ser, then the network path is expressed as: \\WUS-3200\psc 1300 ser

Port Name	? 🛛
Enter a port name:	ОК
\\FPS-3003\psc 1300 ser	Cancel

>>> If your server is running on a different LAN than your windows PC

such as Internet PC, you must type IP address in **Port Name** box.

- 6. Click OK, and then select a Windows driver for your printer. If you already have the printer's driver installed, you will be asked whether to keep it or to replace it. Click Next.
- Choose whether you want to share the printer with other network users. Do you want to print a test page? Select the appropriate radio button and click **Next** and **Finish**.

4.4.6 Using MFP Server Control Center for SMB/CIFS Printing

- Before using SMB/CIFS printing, you have to login the SMB/CIF Print/File server in advance and then you may use it; otherwise you have to disable SMB/CIFS Print/File Server authentication.
- ➢ If you use SMB on Windows 98SE/Me with Server Authentication, you must login to your Windows 98SE/Me using the same user name as in server's User Account.

Windows Platform: Windows 98SE, ME, 2000, XP and 2003

 Start MFP Server Control Center, select your MFP server and click Add Printer.



 Select USB1 Port or USB2 Port to add the printer in Add the printer box, choose to use host name or IP address to represent MFP server in Select IP Address or Host Name in printer port box, and select the network printing protocol of Printing with Network Path (SMB).

🖬 LevelOne USB MFP Server Control Center - WUS-3200 🛛 🔲 🔀
Add Printer
Add printer in USB1 Port
Select IP Address or Host Name in printer port
Host Name O IP Address
Note : If your server is running on the same LAN, you shall choose Host Name.
Select the network printing protocol
Print with LPR (Line Printer Remote)
Printer Port USB1_LPR
Queue Name USB1_LQ
Print with Raw TCP/JetDirect Mode (Port : 9100)
Printer Port USB1_RAW
Print with Network Path (SMB)
Printer Port \\\WUS-3200\LaserJet 302
Apply I Close

If your server is running on a different LAN than your Windows PC such as Internet PC, you must choose IP address in Select IP address or Host Name in printer port box.

- 3. Click Apply.
- 4. Select the desired printer driver and click **Set Port to Printer**.

Lev	elOne USB MFP Server	Control	Center	r - Printer Setup	×
Pi	rinter Port : \\WUS-3200\p	sc 1300 sei	r .	≽ Add New Printe	
	Printer Name		Port N	lame	
ě	늘 \\dragonash\HP_LJ405	0	\\dray	gonash\HP_LJ4050	
Ę	hp psc 1300 series		\\WL	IS-3200\psc 1300 ser	
		LevelOn Set port		er success !	
	🔮 Refresh	🟑 Set P	ort to F	rinter	

5. If you can not find any printer driver in Printer List, please install your printer driver first or click **Add New Printer** to install the printer driver.

4.4.7 Using Standard Windows Method for IPP Printing

Windows Platform: Windows 98 SE, ME, 2000, XP and 2003

- 1. Click Start, click **Control Panel**, click Printers and Other Hardware, and then click Printers and Faxes.
- Double click Add Printer to start the Add Printer Wizard, and then click Next.
- 3. In this window, select **A network printer, or a printer attached to another 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:
O Local printer attached to this computer
Automatically detect and install my Plug and Play printer
 A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back Next > Cancel

- 4. Click the Next button. On the next window, select Connect to a printer on the Internet or on a home or office network. In the URL: field, enter the following to connect to MFP server: http://sercver's host name /printer name or http://server's IP address /printer name For example, http://WUS-3200/psc 1300 ser
 - If your server is running on a different LAN than your windows
 PC such as Internet PC, you must type IP address in URL: Field.

Add Printer Wizard
Specify a Printer If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to? Browse for a printer Connect to this printer (or to browse for a printer, select this option and click Next): Name: Example: \\server\printer Connect to a printer on the Internet or on a home or office network: URL: http://192.162.1.100/psc 1300 ser Example: http://server/printers/myprinter/.printer
<pre></pre>

5. Click **Next** and then continue Windows Add Printer Wizard.

Chapter5 Adding Printers in Unix/Linux

This chapter describes how to add network printers to Unix/Linux PC.

5.1 Configuring Host File

If using IP administration system like DNS, manually registering the host name and IP address may be not required. Otherwise, you have to edit hosts file and contact your network administrator.

- Log in to Linux machine by "root".
 # login root
- Register WUS-3200 MFP server's host name and IP address to /etc/hosts file.

To edit host file, use an editor, e.g. "vi".

Example: The IP address is "192.168.1.100", host name is "WUS-3200"

192.168.1.1 dns # DNS Server

192.168.1.2 mail # Mail Server

192.168.1.100 WUS-3200 # MFP-Server

3. Switch on the MFP server. Verify the network connection by using ping command.

ping WUS-3200

If there is no response or error is indicated, there may be problems with IP address configuration, host file editing or network status. Please contact your network administrator.

5.2 Printing by LPD/LPR

This section explains how to print using LPD protocol of TCP/IP.

For further information on "lpr" and "lp" commands, refer to your workstation manual.

LPD Protocol: LPD (Line Printer Daemon) is a protocol that enables you to execute printing to a printer on the network.

Remote-Printer Queue: WUS-3200 has two remote printer queues USB1_LQ and USB2_LQ with respect to USB port 1 and UB port2. To print files using a printer driver, use "lp" or "lpr".

5.3 Using WUS-3200 on BSD UNIX/Linux

- Log in to the BSD Unix machine through "root".
 # login root
- Register the WUS-3200 MFP server to /etc/printcap file.
 Example: To register the printer of USB1 port by the printer name "Printer1".

Printer1:\ ---(A)
 :lp=:rm=WUS-3200:rp=USB1_LQ:\ ---(B)
 :sd=/var/spool/lpd/Printer1:\ ---(C)
 :lf=/var/spool/lpd/Printer1/Printer1 errs: ---(D)

where

(A) Describes the printer name.

(B) lp: Device file name to connect printer. No name designation required on the network.

rm: Host name for the remote printer. Type the host name registered to /etc/hosts file.

rp: Remote printer name. Please input the remote printer queue name.

(C) sd: Spool directory name. It must be the absolute path.

(D) If: Error log file name. It must be the absolute path.

3. Create the spool directory and error log file registered to /etc/printcap file.

Example: To create the spool directory "Printer1" and error log file "Printer1_errs".

- # mkdir /var/spool/lpd/Printer1 Create the spool directory
- # touch /var/spool/lpd/Printer1/Printer1_errs Create the error log file

chown -R daemon /var/spool/lpd/Printer1 Change the owner to daemon

chgrp -R daemon /var/spool/lpd/Printer1 Change the group to daemon

4. Start Printing.

A. Use the "lp" command.

- # lp -d Printer1 <Print file name>
- # lp -d Printer2 <Print file name>

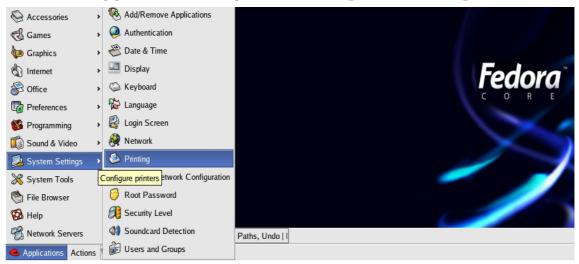
B. Use the "lpr" command.

- # lpr -P Printer1 <print file name>
- # lpr -P Printer2 <Print file name>

5.4 Using WUS-3200 on RedHat Linux (Fedora Core)

In the RedHat (Fedora Core) x-window user interface, do the steps as follows:

To start the application, select Main Menu button (on the Panel)->
 Applications->System Settings -> Printing.



2. Click on the **New** button in the **Printer configuration** window.

ueue name 🛩 Shared Default Description	(a) New	Edit	Dele	te Defai	ult Apply	
	(ueue na	me 😽	Shared	Default	Description	

3. Click on the **Forward** button in the **Add a new print queue** window.

	Add a new print queue
Add a ne	w print queue
	On the following screens, you will be asked to provide basic information for adding a new print queue. You will be able to edit the more advanced options afterwards. Nothing will be done to your settings until you hit "Finish" on the last screen.
🔞 <u>H</u> elp	X Cancel ▲ Back ► Forward

4. Fill in your desired printer name and description (optional) in **Queue name** window and then click on the **Forward** button.

	e enter a name for this queue. Choose a short that begins with a letter and contains no spaces.
Name	: PSC1300
About	
	like, you can enter a description of the printer p you identify it more easily.
Short	description:

5. In Queue type window, you will now be asked to specify which Printer Queue type you are using, select the one option form Networked Unix (LPD), Networked CUPS (IPP), Networked Windows (SMB) and Networked JetDirect options. Click on the Forward button.

ueue type	<u>L</u> ocally-connected Networked CUPS (<u>I</u> PP)	
Select a queue type:	Networked UNIX (LPD)	•
Server:	Networked <u>W</u> indows (SMB) Networked <u>N</u> ovell (NCP) Networked <u>J</u> etDirect	

- 6. Fill in parameters for **Queue type** window:
 - A. Networked Unix (LPD): Fill in MFP server's IP address and queue name and then click the Forward button. *Example:* If your MFP server's IP address is 192.168.1.100 and it connects HP PSC 1300 MFP via USB1 port. You can type IP in server box as 192.168.1.100 and Queue name in Queue box as USB1_LQ.

 ✓ 	Add a new print queue	
Queue type		
Select a queue type:	Networked <u>U</u> NIX (LPD)	*
Server:	Queue:	
192.168.1.100	USB1_LQ	
🔀 <u>H</u> elp	🔀 <u>C</u> ancel	<u>■</u> ack <u>►</u> orward

B. Networked JetDirect: Fill in MFP server's IP address and protocol's TCP port and then click the Forward button. *Example:* If your MFP server's IP address is 192.168.1.100 and it connects HP PSC 1300 MFP via USB1 port. You can type IP in server box as 192.168.1.100 and TCP Port in Port box as 9100.

	Add a new print queue
Queue type	
Select a queue type:	Networked JetDirect
Printer:	Port:
192.168.1.100	9100
🔀 <u>H</u> elp	X Cancel < ▲ Back ► Forward

C. Networked Windows (SMB):

i. Click on the **Specify** button to specify SMB server Authentication.

Add a new print queue	_ – •×
Queue type	
Select a queue type: Networked <u>Windows (SMB)</u>	
Share Comment	Specify
Sancel Sack	▶ <u>F</u> orward

ii. Fill in the Workgroup, Host name, User name and Password inAuthentication window and then click on the OK button.

	Authentication
Workgroup:	LevelOne
Server:	FPS-3003
Share:	share
User name:	admin
Password:	stelelelete
×	<u>C</u> ancel

iii. Click on the **Forward** button.

Queue ty	Add a new print gueue
Select a queue	
Share	Comment Specify
▼ FPS-3003	
share	(Specified)
🙆 <u>H</u> elp	🗱 <u>C</u> ancel 🦪 <u>B</u> ack 📄 <u>F</u> orwar

D. Networked CUPS (IPP): Fill in MFP server's IP address and printer name then click the Forward button. *Example:* If your MFP server's IP address is 192.168.1.100 and its printer name is psc 1300 ser. You can type IP in Server box as 192.168.1.100 and printer name in Path box as psc 1300 ser.

ueue type	
Select a queue type: Netwo	orked CUPS (<u>I</u> PP)
Server:	Path:
192.168.1.100	/psc 1300 ser

7. Select your printer driver. Click on the **Forward** button. Windows will display the **Finish, and create the new print queue** folder.

Select the printer ma				
on how the remote qu to select the generic			need	<u>N</u> otes
_	rosisciipi o	puon nere.		
HP				
PSC 1205				
PSC 1210				
PSC 1300				
PSC 2110				

8. Click Finish button.

	l///i	Printer c	onfigura	tion -	robyn	- • ×
Action	<u>T</u> est	<u>H</u> elp				
lew New	کے Edit	Delet	e Defai) ult /	🔊 Apply	
Queue nam	ne 🛩	Shared	Default	Des	cription	
PSC130)0		V			

Chapter6 File Server Function

This chapter describes the file server function of WUS-3200 MFP server which allows USB storage devices to be shared across a network by using SMB: NetBIOS over TCP/IP and FTP protocol.

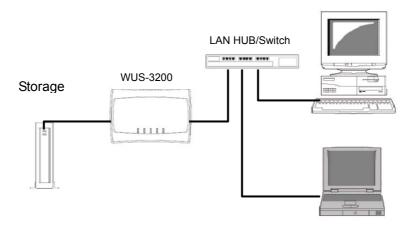
6.1 Preliminary

- 1. This product supports a file format of FAT12/16/32. It will not support a drive formatted by NTFS, etc.
- LevelOne technology is not responsible for the loss or corruption of data in memory devices, including hard disk; LevelOne is not responsible for the leak, manipulation, loss, or corruption of data in memory devices connected to MFP server after unauthorized access.
- 3. In order to use the USB Mass Storage device connected to the MFP server, the SMB protocol or FTP protocol must be set up.
- 4. This product does not support to magnet optical drive devices such as CD/DVD.
- 5. This product allows shared two USB storage devices over the network in Windows through the USB ports.
- 6. This product does not support the USB devices through USB hub.

6.2 Storage Names

The local drives of the two storages in USB1 port and USB2 port are named as $USBx_DxPx$, where USBx represents the USBx port, Dx represents the the *x*-th Disk and Px represents the *x*-th partition.

6.3 Connecting USB Mass Storage to WUS-3200



6.4 Supported Code Pages

- What is codepage?

Used by the system to encode and interpret string characters. Codepage formats are not the same for each language. Some languages, such as Japanese have multibyte characters, while others, such as English and German, need only one byte to represent each character.

- Filename Encoding of FAT File System

This is known as an 8.3 file name, a short file name using code page encoding. The FAT file system also supports file names that can be up to 255 characters long. This is known as a long file name using Unicode (UTF-16) encoding.

- When do you need to configure codepage?

MFP Server supports Windows Codepages. If users want to communicate files using FTP client tool or SMB on Windows 98SE/Me/2000 with WUS-3200 MFP server, they have to set their MFP server code page to be same as the codepage that their Windows PC is using.

WUS-3200 supports long file name after setting the correct codepage.

- 1. FTP
- 2. SMB on Windows 98SE/Me/2000

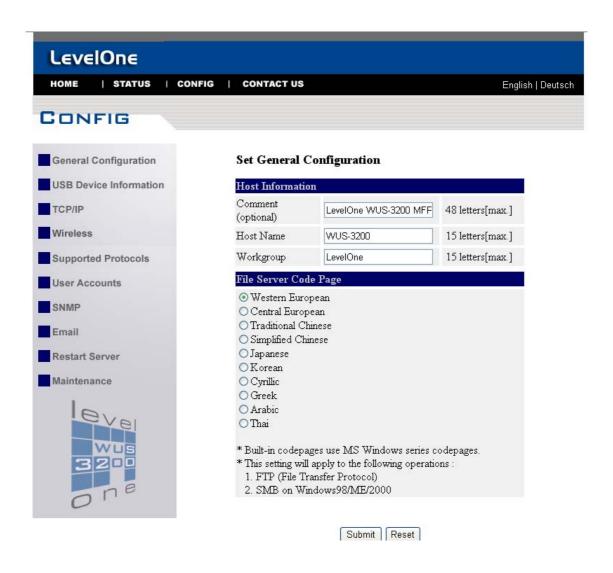
- Configuring WUS-3200 Codepages

Users can use the following methods to set MFP server codepage.

- i. Using MFP Server Control Center
 - 1. Start MFP Server Control Center and Auto-searching MFP server window will appear.
 - 2. If the tool finds MFP servers in your local area network, then you have to select a MFP server from the server list.
 - 3. Double click the highlight list and type the server's administrator (default: *admin*) and password (default: *admin*).
 - 4. After you login successfully, setting **General Configuration** dialog appears.

LevelOne USB MFP S	erver Control Ce	ıter			
Supported Protocols General Configuration	User Accounts	SNMP SNMP	Email TCP/IP	Maintenance Wireless	
<u>Host Information</u> Network PCs use the following information to identify the server					
Comment (optional)	LevelOne WUS-32	00 MFP Server		48 letters [max]	
Host Name	WUS-3200			15 letters [max]	
Workgroup	LevelOne			15 letters [max]	
File Server Code Page	(Built-in codepage	s use MS Windov	vs series codepa	ages.)	
👬 💿 Wester	n European (Japanese	C Greek		
C Central	European () Korean	 Arabic 		
C Traditio	nal Chinese 🦷 🤇	Cyrillic	🔿 Thai		
C Simplifi	ed Chinese				
Note : This setting will	apply to the following	operations : [1] F	TP [2] SMB on	Win98/Me/2000	
	2	Reset	🖉 Apply		

- 5. Select your code page form **File Server Code Page** box and click **Apply**.
- ii. Using Server's Web Pages
 - 1. Go to the web page, click **CONFIG**
 - 2. Login your administrator (default: *admin*) and password (default: *admin*).
 - 3. After you login successfully, setting **General Configuration** dialog appears.



4. Select your code page form **File Server Code Page** box and click **Apply**.

6.5 Adding Your USB Mass Storages to Network with Security

You can use the following protocols to share your USB Mass Storages with user level security in network:

- SMB/CIFS: NetBIOS over TCP/IP
- FTP

The protocols are shown in **Supported Protocols** box of MFP Control Center or server's web pages.

6.5.1 Setting up File Server Using MFP Control Center

1. Start WUS-3200 MFP Server Control Center and Auto-searching MFP

server window will appear.

- 2. If the tool finds MFP servers in your local area network, then you have to select a MFP server from the server list.
- 3. Double click the highlight list and type the server's administrator (default: *admin*) and password (default: *admin*).
- 4. After you login successfully, click **Supported Protocols**.

🖬 LevelOne USB MFP Server Control Center
General Configuration USB Device Information TCP/IP Wireless Supported Protocols User Accounts SNMP Email Maintenance
ICP/IP Enable LPR Printing Enable FTP Server Enable IPP Printing FTP Port: 21 Enable Raw TCP/JetDirect Printing Set Maximum Session Number 5 TCP Port 1: 9100 FTP Port: 21 (to USB1: LaserJet 302) Enable Server Authentication TCP Port 2: 9101 Allow Anonymous Login
(to USB2 : none) ✓ Enable SMB/CIFS Print/File Server ✓ Enable SANE Server · □ Enable Internet Access · SANE Port : 6566 · ✓ Enable Server Authentication ✓ Enable UPnP (Universal Plug and Play)
Close

- 5. Set up File Server Configuration:
 - a) Set SMB/CIFS Print/File Server
 - Enable SMB/CIFS Print/File Server: select the item, if you want to support SMB/CIFS print/File server.
 - Enable Internet Access: clear the item, if you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users can access your storage using the SMB/CIFS protocol.
 - Enable Server Authentication: select the item, if you want to share your storage or printer with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.

- b) Set FTP Server:
 - Enable FTP Server: select the item, if you want to support FTP server.
 - **FTP port**: type the desired FTP port. The default value is 21.
 - Maximum Session Number: select the item and fill in desired number.
 - Enable Passive Mode: select the item, if you want to allow that your FTP server can accept passive mode command.
 - Enable Server Authentication: select the item, if you want to share your storage with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.
 - Allow Anonymous Login: select the item, if you want to allow the user "anonymous" to login your FTP server with read-only permission and server will not check the password. If you clear the item, your FTP server will not support anonymous login function.

6.5.2 Setting up File Server Using Web Pages

- 1. Go to the web page, click **CONFIG**
- 2. Login your administrator (default: *admin*) and password (default: *admin*).
- 3. After you login successfully, click **Supported Protocols**.

Set Supported Protocols

TCP/IP
Enable LPR Printing
Enable IPP Printing
 Enable Raw TCP/JetDirect Printing TCP Port 9100 (to USB1 psc 1300 ser) TCP Port 9101 (to USB2)
 Enable SMB/CIFS Print/File Server Enable Internet Access Enable Server Authentication
 Enable FTP Server FTP Port 21 Set Maximum Session Number 5 Enable Passive Mode Enable Server Authentication Allow Anonymous Login
Enable SANE Server SANE Port 6566
Enable UPnP (Universal Plug and Play)

- Submit Reset
- 4. Set up File Server Configuration:
 - c) Set SMB/CIFS Print/File Server
 - Enable SMB/CIFS Print/File Server: select the item, if you want to support SMB/CIFS print/File server.
 - Enable Internet Access: clear the item, if you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users can access your storage using the SMB/CIFS protocol.
 - Enable Server Authentication: select the item, if you want to share your storage or printer with user level security, which requires user name and password to login. If you clear the item, your storage will be shared without security.
 - d) Set FTP Server:
 - Enable FTP Server: select the item, if you want to support FTP server.
 - **FTP port**: type the desired FTP port. The default value is 21.
 - Maximum Session Number: select the item and fill in desired

number.

- **Enable Passive Mode:** select the item, if you want to allow that your FTP server can accept passive mode command.
- Enable Server Authentication: select the item, if you want to share your storage with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.
- Allow Anonymous Login: select the item, if you want to allow the user "anonymous" to login your FTP server with read-only permission and server will not check the password. If you clear the item, your FTP server will not support anonymous login function.

6.5.3 Use Shared Storages by SMB/CIFS Method for Windows

- 1. Connect a USB storage device to this product.
- 2. Select My Network Places
- 3. Click Display the Computers of Workgroup
- 4. Double click **Microsoft Windows Network** icon.
- 5. Double click the **Workgroup** that MFP server belongs to. The default Workgroup name is "*LevelOne"*. You can refer to WUS-3200 MFP Server Control Center or server's web pages to get it. You will see that the MFP server will be displayed as the default host name "*WUS-3200*" or the host name that you have set.
- 6. If you can not find Workgroup name of MFP server in Microsoft Windows Network, you can select **Search for Computer...** in **My Network Places** and type the hostname of MFP server (For example, default host name "WUS-3200" or server's IP address) to find it.
- 7. Double click this host name icon.
- 8. If you clear Enable SMB/CIFS Print/File Server Authentication in Supported Protocols, you login to the SMB server without requiring authentication; otherwise you have to type user name and password to login to the server. You can add user name and password in User Account box by MFP control center or server's Web page.
 >> Note:

If you use SMB on Windows 98SE/Me, you must login to your Windows 98SE/Me using the same user name as in server's **User Account**.

- 9. The shared folders will be listed as USB1_DxPx, and USB2_DxPx where Dx represents the x-th disk and Px represents the x-th partition with respect to USB1 port and USB2 port.
- 10. Perform Open, Paste, Remove or Copy the files to the shared folders.

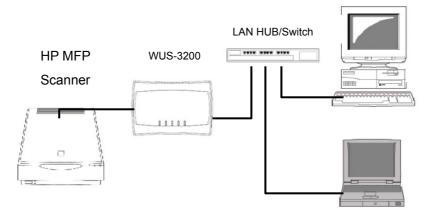
6.5.4 Use Shared Storage by FTP Methods for Windows

- i. Use Microsoft IE to the shared USB Mass Storages
 - 1. Open Microsoft IE
 - In Web Address List, type command: "ftp://server's host name" or "ftp://server's IP address". If you have changed the default FTP port : 21 to the new value, you have to add the new port number in the tail of command as "ftp://server's host name: ftp port" or "ftp://server's IP address: ftp port"
 - 3. If you set **Enable Server Authentication in FTP server protocol settings** you have to type user name and password to login to the server; if you set **Allow Anonymous Login**, you can use the user name "anonymous" to login with Read-only permission. If you clear server authentication, you do not need username or password to login server. You can add user name and password in **User Account** box by MFP control center or server's Web page.
 - 4. The shared folders will be listed in IE.
 - 5. Perform Paste, Remove or Copy the files to the shared folders.
- ii. Use Microsoft Dos's FTP client
 - 1. Type Dos command as "ftp"
 - 2. Type "open server's host name" or "open server's IP address". If you have changed the default FTP port : 21 to the new value, you have to add the new port number in the tail of command as "open server's host name ftp port" or "open server's IP address ftp port"
 - 3. If you set **Enable Server Authentication in FTP server protocol settings** you have to type user name and password to login to the server; if you set **Allow Anonymous Login**, you can use the user name "anonymous" to login with Read-only permission. If you clear server authentication, you do not need username or password to login server. You can add user name and password in **User Account** box by MFP control center or server's Web page.
 - 4. Perform FTP commands to use this FTP server.

Chapter7 Scan Server Function

This chapter explains how to use the scan server function of this product. The scan server function enables a USB scanner of HP OJ/PSC/all-in-ones series, connected to this product, to be shared as a network scanner. The scan server function is available in any platform that can use SANE client.

7.1 Connecting HP All-in-one MFP to WUS-3200



7.2 Using the Shared Scanner in Windows

7.2.1 Using MFP Server Control Center

1. Start MFP Server Control Center, select your MFP server, and click LevelOne Network Scanner.

LevelOne USB MFP Server Control Center				
<u>File T</u> ools <u>H</u> elp				
] 🔎 🏴 🗐 🏠 🧕 👹				
Model Name	Name	MAC Address		
WUS-3200	WUS-3200	00:11:E5:14:5D:28		

2. Select your scanner for USB1 port or USB2 port.

LevelOne USB MFP Server Network Scanner				
<u> E</u> ile <u>H</u> elp				
Server Infomation Server IP : 192.168.0.32 Port : 6566 Scanner : USB1 : HP hp LaserJet 3020 •		••••••		
Source: Auto Mode: Color Resolution: 75				
Contrast: 50				
Image Infomation 676 x 1128 x 24bits 2.2 MB 22.9 cm x 38.2 cm 75 dpi		12 4 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2000
0%	••••••			
♦ Preview ♦ Scan ♦ Cancel	1)iii (†
	X:	Y :	W :	H:

- 3. Set the options. The options are defined as follows:
 - Source: choose flatbed scanning or scrolledbed (ADF) scanning
 - **Mode**: choose lineart (black/white), Gray and color mode
 - **Resolution**: choose the image resolution
 - **Contrast**: tune the contrast of the image
 - **Brightness**: tune brightness of the image
 - **Range**: define the scanning range of the image

Not all the MFP scanners support the options above. In such a case, the options will show as gray color and not accessible.

- 4. Click **Preview** button
- 5. Adjust the window size to be scanned
- 6. Click **Scan** button
- 7. Save as your images to the file

LevelOne USB MFP Server Network Scanner	
III Automatically scan multiple pages on feeder	!
File Information	
1. Input File Group Name	
2. Select File Format	
PDF 3. Select File Path	
C:\Program Files\LevelOne\MFP Serve	
No. 0 Page.	
Save To:	
0%	
	.
🔷 Scan 😑 Cancel	<u>I</u> <u>C</u> lose

- 8. Set the options. The options are defined as follows:
 - Input File Group Name: Name the file
 - Select File Format: PDF or JPG
 - Select File Path: Where to save the file
 - Save To: shows saving path info

7.2.2 Using Windows Applications

Prior to using scanning functions in Windows applications such as MS Word, Photoshop ...etc, you have to install network scanner's TWAIN driver in advance. When you install MFP Server Control Center tool, it will also install this TWAIN driver.

Example: Using Photoshop

1. Start Photoshop, click File ->Import->WUS-3200 Network Scanner

ile	<u>E</u> dit]	[mage	Layer	Select	Filter	⊻iew	Window	<u>H</u> elp	
Ne	w			Ctrl+N		F	Resolution:		pixels/ 💌
Op	en			Ctrl+O	-			-	- Andrewski
- 3	en As		Alt	+Ctrl+O					
Op	en Rece	ent			>				
<u>C</u>]	ose			Ctrl+W					
Sa	ve			Ctrl+S					
Sa	ve <u>A</u> s		Shft	+Ctrl+S					
Sa	ve for <u>V</u>	Yeb	Alt+Shft	+Ctrl+S					
Re	vert								
Pla	RCe.,,								
Im	port				▶ I	PDF Ime	.ge		
Ex	port				+ 1	Annotati	ions		
Ma	anage W	lork <u>f</u> lo	w		•	PS-300	13 Network	Scanner.	•
Au	itomate				•				
Fil	e Info	ē.							
Pri	int Optio	ons	Alt	+Ctrl+P					
Pa	ge Setuj	j	Shft	+Ctrl+P					
Pri	int			Ctrl+P					
Jω	mp to				•				
Ex				Ctrl+Q					

 Select a server's IP address or type a server IP address in Server Information box. You can click Search Server button P to search existing MFP servers in your network.

If LevelOne control center software and application program (ex:photoshop) are started up simultaneously, you may need to configure the IP address of WUS-3200 manually. Or you can close the control center software to enable auto-search.

LevelOne USB MFP Server Network Scanner				
<u>File</u> <u>H</u> elp				
Server Infomation				
Server IP : 192.168.0.247 Port : 6566 Scanner : 192.168.0.176 192.168.0.176 192.168.0.18				
Scanning Options				
land Source :				
Mode :				
Resolution : dpi				
Contrast: 50				
-× Brightness: 50				
E Range : Full Size				
🖆 🦵 Automatically scan multiple pages on feeder				
Image Infomation				
××××				
x x				
0%				
♦ Preview ♦ Scan				× •
	X :	Υ:	W :	H :

3. Click **Connect to Network Scanner** button **2** in **Server Information** box

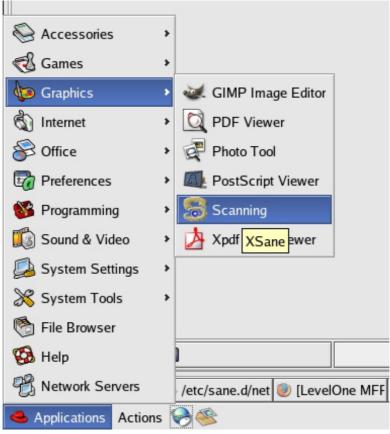
LevelOne USB MFP Server Network Scanner		
<u>File H</u> elp		
Server Infomation	.	
Server IP : 192.168.0.18 - Port : 6566 -	1	
Scanner : USB1 : HP hp LaserJet 3020 💌		
Scanning Options		
Source : Auto		
Mode : Color		
P: Resolution : 75 V dpi		
Resolution: 75	<u>i</u> .	
Contrast: 50	I	
[]] Range : Full Size 💌		
直 L Automatically scan multiple pages on feeder		
Image Infomation		
676 x 1128 x 24bits 2.2 MB		
22.9 cm x 38.2 cm 75 dpi		
0%	<u></u>	
♦ Preview ♦ Scan) (
	X: Y: W:	H :

- 4. Select your scanner in **Server Information** box.
- 5. Click **Preview** button
- 6. Adjust the window size to be scanned
- 7. Click **Scan** button

7.3 Using the Shared Scanner in Linux

7.3.1 Using XSane in Redhat Linux

- 1. Download SANE-Backends from http://www.sane-project.org
- 2. Download and install SANE-frontends: XSane (UNIX binary) from http://www.xsane.org
- Edit \etc\sane.d\net.conf and put the IP address of the MFP server where the scanner is connected into one line, e.g: 192.168.1.100
- To start the application, select Main Menu button (on the Panel)-> Applications->Grphics -> Scanning.



5. Perform scan function.

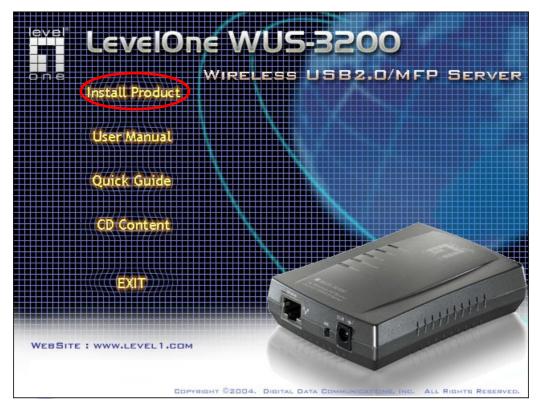
🔨 🗙	ane 0.96 psc	1300 se	ries:net:U	SB1_	- ×
File	Preferences	View	Window		Help
XSa	ne options				
XSa	ine mode			Viewer	Ŧ
4				Color	¥
			I	Flatbed	±
	Ful	l color ra	nge		¥
::	4 ///		*	75	*
Γ	• ///		>	1.00	* *
	•	111	>	0.0	*
●	•	///	>	0.0	* *
Ψ	' 🎽	*	₩ F	1	1
	637*876*24 (1	.6 MB)		Scan	
	21.59 cm x 29	.69 cm		🛚 <u>C</u> an	cel

Chapter8 MFP Server Control Center

This chapter describes how to use MFP Server Control Center in your Windows.

8.1 Installing MFP Server Control Center

1. Click **Install Product** button.



- 2. Click **Next**, if you see **Next** button in installation windows.
- 3. Click Finish.

8.2 Using MFP Server Control Center

8.2.1 Use Tools of MFP Server Control Center

You can use the following tools to help you using the MFP server:

LevelOne USB MFP Server Control Center									
File	<u>T</u> o	ols	<u>H</u> elp						
	P	P	<u>p</u>		6		2	8	

- Auto Search P: renew to auto search the existing MFP servers in network
- *IP Search* **!**: search the MFP server by IP address

- *Refresh* : refresh the highlight list's server status
- Go to web is : go to web pages of the highlight list's server
- Network Scanning 2: perform network scanner function of the highlight list's server
- Add Printer Server
 Add Printer Server

8.2.2 Display Server's Status

You can start MFP Server Control Center and select your MFP server to see the server status which includes Host Information, TCP/IP, USB Devices Status and Supported Protocols.

8.2.3 Set up Server's Configuration

General Configuration

- Set Host Information: You have to set some information for networking using SMB protocol:
 - ☑ *Comment:* optionally set to describe the server
 - ☑ Host Name: the name to represent the server for Windows networking using SMB/CIFS protocol
 - ☑ Workgroup: the SMB/CIFS workgroup name that the server belongs to.
- **File Server Code Page:** If users want to communicate files using FTP client tool or SMB on Windows 98SE/Me/2000 with WUS-3200 MFP server, they have to set their MFP server code page to be same as the codepage that their Windows PC is using. Generally, the criteria of choosing code page are based on your Windows code page. For example, if your Windows code page is Traditional Chinese, you have to select Traditional Chinese (Big5) in server. Please refer to Chapter 6 File Server Function.
- USB Device Information: You can set printer names and display some information of USB mass storages and scanners. Please refer to Chapter 4, Chapter 6 and Chapter 7.

- TCP/IP: You have to set the server's TCP/IP configuration to connect TCP/IP network. Please see Chapter 3 Basic Installation for more details.
- Supported Protocols: The server supports the following TCP/IP protocols:
 - TCP/IP
 - Enable LPR (Line Printer Remote) Printing: select or clear
 Enable LPR Printing support. It is enabled in Factory
 Default.
 - ☑ Enable IPP Printing: select or clear Enable IPP Printing support. It is enabled in Factory Default.
 - Enable Raw TCP Printing: select or clear Enable Raw TCP
 Printing support. It is enabled in Factory Default and users may set the protocol's TCP ports as following boxes:
 - TCP Port 1: set TCP port for the printer of USB1 port (default: 9100)
 - TCP Port 2: set TCP port for the printer of USB2 port (default: 9101)
 - Enable SMB/CIFS Print/File Server: select or clear Enable
 SMB/CIFS Print/File Server support. It is enabled in
 Factory Default.
 - Enable Internet Access: select or clear Enable Internet Access support. If you clear the item, you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users can access your storage using the SMB/CIFS protocol.
 - Enable Server Authentication: select or clear Enable
 Server Authentication support. Select the item, if you want to share your storage or printer with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.
 - ☑ Enable FTP Server: select or clear Enable FTP Server support. It is enabled in Factory Default and users may set some parameters as follows:
 - FTP Port: type an integer number to set FTP server's TCP

port (default: 21)

- Set Maximum Session Number: select or clear Set
 Maximum Session Number support. You can limit the
 FTP session number by selecting the support and type an
 integer to set the allowable maximum session number. If
 you clear the support, it means that FTP server will have
 not any limitation in session number.
- Set Passive Mode: select or clear **Set Passive Mode** support that FTP server can accept passive mode.
- Enable Server Authentication: select or clear Enable
 Server Authentication support. If you select the support, you need to type user name and password to login to the server. If you clear the support, you do not need user name and password to enter the server.
- Allow Anonymous Login: select the item, if you want to allow the user "anonymous" to login to your FTP server with Read-Only permission and FTP server will not check the password. If you clear the item, your FTP server will not support anonymous login function.
- Enable SANE (Scanner Access Now Easy) Server: select or clear Enable SANE Server support. It is enabled in Factory Default and users may set the TCP port as follows:
 - SANE Port: set SANE server's TCP port (default: 6566)
- Enable UPnP (Universal Plug and Play): select or clear
 Enable UPnP support. It is enabled in Factory Default.

LevelOne USB MFP Serv	er Control Center	÷		
General Configuration Supported Protocols	USB Device In		TCP/IP	Wireless
	User Accounts	SNMP	Email	Maintenance
Enable LPR Prin	nting	🔽 Enable F		
🔽 Enable IPP Prin	ting	- FTP Por	t: 21	
🔽 Enable Raw TC		- 🔽 Set	Maximum Sessi	on Number 5
- TCP Port 1 : 91	00	• 🔽 Ena	ble Passive Mo	de
(to USB1 : Lase	Jet 302)	• 🔽 Ena	ble Server Auth	entication
- TCP Port 2 : 91	01	· 🗆 /	Allow Anonymou	ıs Login
(to USB2 : none				
	FS Print/File Server			
- 🥅 Enable Inte	ernet Access	- SANE P	ort : 6566	
- 🔽 Enable Se	ver Authentication			
🔽 Enable UPnP (L	Iniversal Plug and Pla	ay)		
	C Re	set	🖉 Apply	<u>I</u> <u>C</u> lose

User Accounts: You can change administrator name and password or add a user account for SMB/CIFS Print/File server and FTP File server. If you forgot administrator name and password, you must to perform Restore Factory Default action by pressing Init button and plugging Power adaptor simultaneously. Please refer to Chapter 14 Restore Factory Default. Administrator owns the Read-Write Permission for File servers.

• Set Administrator

- ☑ *New Administrator:* type your desired administrator name.
- ☑ *New Password:* type your desired password.
- ☑ *Retype Password:* confirm your previous password typing.

• User Accounts list

- ☑ User name: add a new user account for accessing the storage attached to MFP server.
- ☑ *Password*: set a password for added user.
- ☑ Permission: select Read-Only or Read-Write permission to access File servers.

- ☑ Add: click Add button, after entering the user name, corresponding password, and Permission selection. The account will take effect once shown in the blank below.
- \square Delete: delete the existing user account.

LevelOne USB MFP Server Control Center	
	CP/IP Wireless
Supported Protocols User Accounts SNMP Err	nail Maintenance
Set Administrator New Administrator admin New Password 15 letters Retype Password 15 letters	[max] 📑 Set
User Account List (Note : Allows up to 25 user accounts. User Name Password) Add
Permission Read Only 💌 # User Name Password Permission	Delete
	Reload

SNMP: You can set community and some parameters for SNMP server.
 Furthermore, you can enable SNMP v3 for more security.

Set SNMP Configuration

- ☑ *Authentic Community:* set Community name of SNMP server.
- ☑ *Trap Community:* set Trap Community name for SNMP server to send trap packets.
- ☑ *Trap Address:* type an IP address to send the Trap packet.
- ☑ *SysContact:* type some letters for variable of *SysContact* that represents the name of system contact.
- ☑ *SysName:* type some letters for variable of *SysName* that represents the name of system.
- ☑ *SysLocation:* type some letters for variable of *SysLocation* that represents the location of system.

 ✓ EnableAuthenTrap: type 1 or 2 for the variable of EnableAuthenTrap that represents to enable (1) or disable (2) to send Trap packets receiving the wrong Community name.

- SNMP V3
- ☑ Enable SNMP V3: select or clear Enable SnmpV3 support
- ☑ User Security name: set user security name of SNMP v3
- ☑ *Auth Password:* set authentication password of SNMP v3.
- ☑ Privacy Password: set privacy password of SNMP v3.

LevelOne USB MFP S	erver Control Center		
General Configuration Supported Protocols	USB Device Information User Accounts SNMP	TCP/IP Wireless Email Maintenance	
Set SNMP Configuration	<u>n</u>		
Authertic Community	public	15 letters [max] (Password)	
Trap Community	public	15 letters [max]	
Trap Address (IP)	0.0.0.0	IP Address	
SysContact	support@level-one.de	60 letters [max]	
SysName	LevelOne WUS-3200 MFP Server	60 letters [max]	
SysLocation	www.level1.com	120 letters [max]	
EnableAuthenTrap	2	1 : Enable, 2 : Disable	
Enable SNMPv3			
User Security Name		8 - 15 letters	
Auth Password		8 - 15 letters	
Privacy Password		8 - 15 letters	
	📿 Reset 🛛 🗸	Apply	

Email: If you want to receive some alerting mail from the server, you have to enable SMTP Protocol, and set Email configuration. You can set new SMTP port number (default: 25).

Set Email Configuration

- ☑ *SMTP Protocol:* select or clear **Enable** SMTP support
- ☑ SMTP Server Name: type your SMTP server's host name or IP address.
- ✓ SMTP Port Number: set new SMTP server's TCP port number (default: 25).

- ☑ *From Address:* type the sender's e-mail address.
- ✓ To Address: type an e-mail address to send that mail to a person.
- ☑ Cc: stands for carbon copy; type an e-mail address to send that mail to a second person.
- ☑ *SMTP Server requires authentication:* login to remote SMTP server which requires authentication.
- ☑ Account Name: type account name for remote SMTP server.
- ☑ *Password*: type account's password for remote SMTP server.

LevelOne USB MFP Se	erver Control Center	
General Configuration Supported Protocols	USB Device Information	TCP/IP Wireless Email Maintenance
Set Email Configuration		
SMTP Protocol	🔲 Enable	Check to enable SMTP
SMTP Server Name		IP Address or Server Name
SMTP Port Number	25	1 - 65535 integer
Subject		78 letters [max]
From Address		78 letters [max]
To Address		78 letters [max]
Cc		78 letters [max]
🗖 🗖 SMTP Server requir	es authentication	
Account Name		15 letters [max]
Password		15 letters [max]
	C Reset	Apply

- Maintenance: If you want to restart server, restore factory default values of the server, download new firmware file from product's public web site and upgrade new firmware, you can use the Maintenance tool.
 - **Restart Server:** click the button, the server will be restarted.
 - **Factory Default:** click the button, the server will restore factory default values.
 - Download New Firmware: click the button and you can download new firmware or user software from product's public web site.
 - Upgrade New Firmware: click Open to find the system firmware file to be upgraded. Click Upgrade to do the real firmware upgrading task.

fi L	evelOne	e USB MFP Server Control Center	
E		I Configuration USB Device Information TCP/IF ed Protocols User Accounts SNMP Email	P Wireless Maintenance
	0	Restart Server	
		<u>Download New Firmware</u> ISP http://www.level1.com Upgrade System Firmware	
		New Firmware File : File Size : 0 bytes	🗁 Open
		0%	🗈 Upload
			<u><u> </u></u>

Chapter9 MFP Server's Web Pages

9.1 Introduction

WUS-3200 USB MFP server runs the daemon of http server, *httpd* on TCP port: 80. Users may use the web pages to see the server's system status and configure the server.

9.2 Using Server's Web Pages

9.2.1 Display Server Status

You can see the status of Host Information, TCP/IP and USB devices.

LevelOne		
HOME STATUS	CONFIG CONTACT US	English Deutsch
STATUS		
	System Status Firmware Version: 1.15	[Reload]
	Host Information Comments: LevelOne WUS-3200 MFP Server Host Name: WUS-3200 Workgroup Name: LevelOne File Server Code Page: Western European	
	TCP/IP Status IP Address : 192.168.0.15 (dhcp) Subnet Mask : 255.255.255.0 Gateway : 192.168.0.252 DNS Server : 168.95.1.1 DHCP Server : 192.168.0.252 Lease Time : 259200 second	
	Wireless Status Station Name : 00-11-E5-14-5D-28 SSID : default BSSID : 00-0F-3D-41-44-DE Channel No : 6 Network Type : Infrastructure Link Quality : (Excellent) Signal Strength : (Excellent) Security System : Disabled	
	USB Device Status USB1: Printer: none Scanner: none Disk: none USB2: Printer: none Scanner: none	

9.2.2 Set up Server Configuration

To set up the server configuration, the system will request user to enter administrator (default: *admin*) and password (default: *admin*) to login.

General Configuration

- Set Host Information: You have to set some information for networking using SMB protocol:
 - ☑ *Comment:* optionally set to describe the server
 - ☑ Host Name: the name to represent the server for Windows networking using SMB protocol
 - ☑ Workgroup: the SMB workgroup name that the server belongs to.
- **File Server Code Page:** if users want to communicate files using FTP client tool or SMB on Windows 98SE/Me/2000 with WUS-3200 MFP server, they have to set their MFP server code page to be same as the codepage that their Windows PC is using. Generally, the criteria of choosing code page are based on your Windows code page. For example, if your Windows code page is Traditional Chinese, you have to select Traditional Chinese (Big5) in server. Please refer to Chapter 6 File Server Function.

HOME STATUS CON	FIG CONTACT US	à.	English Deutse
CONFIG			
General Configuration	Set General	Configuration	
USB Device Information	Host Informati	on	
TCP/IP	Comment (optional)	LevelOne WUS-3200 MFF	48 letters[max.]
Wireless	Host Name	WUS-3200	15 letters[max.]
Supported Protocols	Workgroup	LevelOne	15 letters[max.]
User Accounts	File Server Co	de Page	
SNMP Email Restart Server Maintenance	* This setting wi 1. FTP (File T	pean 'hinese	

- USB Device Information: You can set printer names and display some information of USB mass storages and scanners. Please refer to Chapter 4, Chapter 6 and Chapter 7.
- TCP/IP: You have to set the server's TCP/IP configuration to connect TCP/IP network. Please see Chapter 3 Basic Installation for more details.
- Supported Protocols: The server supports the following TCP/IP protocols:
 - TCP/IP
 - Enable LPR (Line Printer Remote) Printing: select or clear
 Enable LPR Printing support. It is enabled in Factory
 Default.
 - ☑ Enable IPP Printing: select or clear Enable IPP Printing

support. It is enabled in Factory Default.

- Enable Raw TCP Printing: select or clear Enable Raw TCP
 Printing support. It is enabled in Factory Default and users may set the protocol's TCP ports as following boxes:
 - TCP Port 1: set TCP port for the printer of USB1 port (default: 9100)
 - TCP Port 2: set TCP port for the printer of USB2 port (default: 9101)
- Enable SMB/CIFS Print/File Server: select or clear Enable
 SMB/CIFS Print/File Server support. It is enabled in
 Factory Default.
 - Enable Internet Access: select or clear Enable Internet Access support. If you clear the item, you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users can access your storage using the SMB/CIFS protocol.
 - Enable Server Authentication: select or clear Enable
 Server Authentication support. Select the item, if you want to share your storage or printer with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.
- ☑ Enable FTP Server: select or clear Enable FTP Server support. It is enabled in Factory Default and users may set some parameters as follows:
 - *FTP Port:* type an integer number *to* set FTP server's TCP port (default: 21)
 - Set Maximum Session Number: select or clear Set
 Maximum Session Number support. You can limit the
 FTP session number by selecting the support and type an
 integer to set the allowable maximum session number. If
 you clear the support, it means that FTP server will have
 not any limitation in session number.
 - Set Passive Mode: select or clear **Set Passive Mode** support that FTP server can accept passive mode.
 - Enable Server Authentication: select or clear Enable
 Server Authentication support. If you select the support,

you need to type user name and password to login to the server. If you clear the support, you do not need user name and password to enter the server.

- Allow Anonymous Login: select the item, if you want to allow the user "anonymous" to login to your FTP server with Read-Only permission and FTP server will not check the password. If you clear the item, your FTP server will not support anonymous login function.
- Enable SANE (Scanner Access Now Easy) Server: select or clear Enable SANE Server support. It is enabled in Factory Default and users may set the TCP port as follows:
 - SANE Port: set SANE server's TCP port (default: 6566)
- Enable UPnP (Universal Plug and Play): select or clear
 Enable UPnP support. It is enabled in Factory Default.

Set Supported Protocols

TCP/IP
Enable LPR Printing
Enable IPP Printing
 Enable Raw TCP/JetDirect Printing TCP Port 9100 (to USB1 psc 1300 ser) TCP Port 9101 (to USB2)
 Enable SMB/CIFS Print/File Server Enable Internet Access Enable Server Authentication
 Enable FTP Server FTP Port 21 Set Maximum Session Number 5 Enable Passive Mode Enable Server Authentication Allow Anonymous Login
Enable SANE Server SANE Port 6566
Enable UPnP (Universal Plug and Play)



- User Accounts: You can change administrator name and password or add a user account for SMB/CIFS Print/File server and FTP File server. If you forgot administrator name and password, you must to perform Restore Factory Default action by pressing Init button and plugging Power adaptor simultaneously. Please refer to Chapter 14 Restore Factory Default. Administrator owns the Read-Write Permission for File servers.
 - Set Administrator
 - ☑ *New Administrator:* type your desired administrator name.
 - ☑ *New Password:* type your desired password.
 - ☑ *Retype Password:* confirm your previous password typing.

User Accounts list

- ☑ User name: add a new user account for accessing the storage attached to MFP server.
- ☑ *Password*: set a password for added user.
- ☑ Permission: select Read-Only or Read-Write permission to access File servers.
- ☑ Add: click Add button, after entering the user name, corresponding password, and Permission selection. The account will take effect once shown in the blank below.
- \square Delete: delete the existing user account.

LevelOne	
HOME STATUS	CONFIG CONTACT US English Deutsch
CONFIG	
General Configuration	Set User Account
USB Device Information	Set Administrator Submit Reset
TCP/IP	New Administrator admin 15 letters [max]
Wireless	New Password Retype Password
Supported Protocols	User Account List
User Accounts	User Name Password
SNMP	Permission Read Only 🗸
Email	User Name Password Permission Delete
Restart Server	
Maintenance	
	*Allows up to 25 user accounts.

SNMP: You can set community and some parameters for SNMP server.
 Furthermore, you can enable SNMP v3 for more security.

Set SNMP Configuration

- ☑ *Authentic Community:* set Community name of SNMP server.
- ☑ Trap Community: set Trap Community name for SNMP server to send trap packets.
- ☑ *Trap Address:* type an IP address to send the Trap packet.
- ☑ *SysContact:* type some letters for variable of *SysContact* that represents the name of system contact.
- ☑ *SysName:* type some letters for variable of *SysName* that represents the name of system.
- ☑ *SysLocation:* type some letters for variable of *SysLocation* that represents the location of system.
- EnableAuthenTrap: type 1 or 2 for the variable of
 EnableAuthenTrap that represents to enable (1) or disable (2)
 to send Trap packets receiving the wrong Community name.
- SNMP V3
 - ☑ Enable SNMP V3: select or clear Enable SnmpV3 support
 - ☑ User Security name: set user security name of SNMP v3
 - ☑ *Auth Password:* set authentication password of SNMP v3.
 - ☑ *Privacy Password:* set privacy password of SNMP v3.

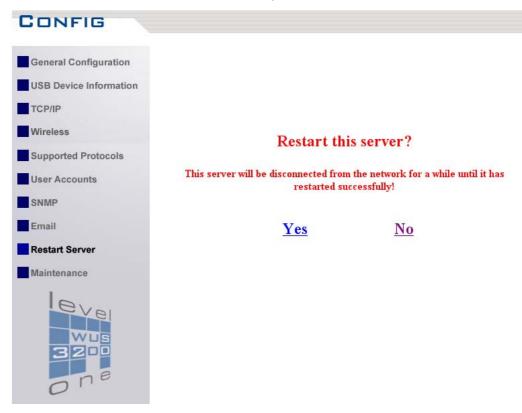
LevelOne			
HOME STATUS C	ONFIG CONTACT US		English Deutsch
CONFIG			
General Configuration	Set SNMP Configu		
	Name	Value	Comment
USB Device Information	Authentic Community	public	15 letters [max.](Password)
TCP/IP	Trap Community	public	15 letters [max.]
Wireless	Trap Address(IP)	0.0.0.0	IP address
Supported Protocols	SysContact	support@level-one.de	60 letters [max.]
User Accounts	SysName	LevelOne WUS-3200 MFF	60 letters [max.]
	SysLocation	www.level1.com	120 letters [max.]
SNMP	Enable Authen Trap	2	1: Enable, 2: Disable
Email	Enable SNMP V3		
Restart Server	User Security Name		8 -15 letters
Maintenance	Auth Password		8 -15 letters
1	Privacy Password		8 -15 letters
		Submit Reset	

- Email: If you want to receive some alerting mail from the server, you have to enable SMTP Protocol, and set Email configuration. You can set new SMTP port number (default: 25).
 - Set Email Configuration
 - ☑ *SMTP Protocol:* select or clear **Enable** SMTP support
 - ☑ SMTP Server Name: type your SMTP server's host name or IP address.
 - ✓ SMTP Port Number: set new SMTP server's TCP port number (default: 25).

 - ☑ *From Address:* type the sender's e-mail address.
 - ☑ To Address: type an e-mail address to send that mail to a person.
 - ☑ Cc: stands for carbon copy; type an e-mail address to send that mail to a second person.
 - ☑ *SMTP Server requires authentication:* login to remote SMTP server which requires authentication.
 - ☑ Account Name: type account name for remote SMTP server.
 - ☑ *Password*: type account's password for remote SMTP server.

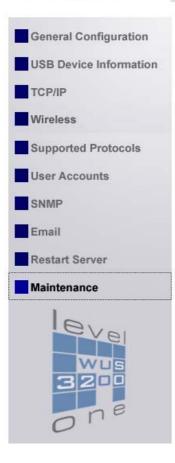
LevelOne			
HOME STATUS C	ONFIG CONTACT US	;	English Deutsch
CONFIG			
General Configuration	Set Email Configu	ration	
USB Device Information	Name	Value	Comment
TCP/IP	SMTP Protocol	🗖 Enable	Check to enable SMTP
Wireless	SMTP Server Name		IP address or server name
	SMTP Port Number	25	1 - 65535 integer
Supported Protocols	Subject		78 letters [max.]
User Accounts	From Address		78 letters [max.]
SNMP	To Address		78 letters [max.]
Email	Cc		78 letters [max.]
Restart Server	SMTP Server req	uires authentication	
Maintenance	Account Name		15 letters [max.]
Maintenance	Password		15 letters [max.]
		Submit Reset	

Restart Server: click the button, the server will be restarted.



- Maintenance If you want to restore factory default values of the server and upgrade new firmware, you can use the Maintenance tool.
 - ✓ Factory Default: click the button, the server will restore factory default values.
 - ☑ Download New Firmware from Web Site: click the button and you can download new firmware or user software from product's public web site.
 - ☑ Upgrade New Firmware: click Open to find the system firmware file to be upgraded. Click Upgrade to do the real firmware upgrading task.

CONFIG



Maintenance

Factory Default

Download New Firmware

Upgrade Firmware

Chapter10 Email Alerting

WUS-3200 USB MFP server can send some email messages to the user while the following events occurs

- 1. Add/Remove USB device: When add new USB device or remove current USB device, the server will send the mail to notify the user.
- 2. System Error: When there are some errors occur in the server, the server will send the mail to notify the user.

Chapter11 SNMP

WUS-3200 USB MFP server runs the daemon of SNMP server that supports the SNMP v1, v2c and v3 protocols (Simple Network Management Protocol). Users can use SNMP client software as actual management tool such as HP Open view to management your MFP server. The WUS-3200 MFP servers support all relevant parts of MIB-II and a private WUS-3200 MFP server MIB. You can set value of some MIB variables from the server's web pages or MFP Server Control Center Tool.

Chapter12 Troubleshooting

This chapter provides useful information to help you resolve difficulties you may experience with your WUS-3200 USB MFP server. Fault symptoms, possible causes and remedial actions are provided within a quick reference table. General USB ports in WUS-3200 USB MFP server only support USB printers, USB Mass storages and USB scanner of HP Office Jet Series.

12.1 LED Indicators

Indicators	Color/Behavior	Description
Power	Orange	Power On
	Not lit	Power off/System error
LAN	Green	Network connected
	Not Lit	No physical connection to
		network
Wireless	Green blinking	Activity on wireless network
	Not lit	Wireless network is disabled
USB1	Green	USB device connected
	Green blinking	Connected USB device error
	Not lit	No physical connection to USB
		device
USB2	Green	USB device connected
	Green blinking	Connected USB device error
	Not lit	No physical connection to USB
		device

USB Device Status

Devices	Status	Description
Printer	Ready	Printer is ready.
	Printing	Printer is printing.
	Out of paper	Printer is out of paper.
	Error	There are errors in network
		printing.
Mass	Ready	Storage is ready.

Storage	Error	There are errors in network File
		server.
Scanner	Ready	Scanner is ready.
	Flatbed Scanning	Flatbed of scanner is scanning.
	Scrollfed	Scrollfed of scanner is scanning.
	Scanning	
	Error	There are errors in network
		scanning.

Chapter13 Restore Factory Default

This chapter describes how to restore default parameters of the MFP server. The server provides the following methods to achieve restoring default parameters of the MFP server.

13.1 Using Server's Web Pages

- 1. Go to the server's web page and click **CONFIG**
- 2. Login your administrator (default: *admin*) and password (default: *admin*).
- 3. Click Maintenance.

ONFIG	
General Configuration	Maintenance
USB Device Information	Factory Default
TCP/IP	Download New Firmware
Wireless	Upgrade Firmware
Supported Protocols	
User Accounts	
SNMP	
Email	
Restart Server	
Maintenance	

4. Click Factory Default.

Load the Factory Default?

This server will load the factory default and then restart!



- No
- 5. Click Yes to confirm your action

13.2 Using MFP Server Control Center

- 1. Start MFP Server Control Center and Auto-searching MFP server window will appear.
- 2. If the tool finds MFP servers in your local area network, then you have to select a MFP server from the server list.
- 3. Double click the highlight list and type the server's administrator (default: *admin*) and password (default: *admin*).
- 4. After you login successfully, from the Server menu, select **Maintenance**. The **Maintenance** dialog appears.
- 5. Click Factory Default.

LevelOne USB MFP Server Control Center	
General Configuration USB Device Information TCP/IP Supported Protocols User Accounts SNMP Email	Wireless Maintenance
Restart Server Image: Restart Server Factory Default Image: Restart Server Image: Resta	
Upgrade System Firmware New Firmware File :	😂 Open
File Size : 0 bytes	🗈 Upload
	<u>I</u> <u>C</u> lose

13.3 Using Init Button

Simultaneously press Init button and power on (plug the power adaptor line) the server until LED indicators of Power, USB1 and USB2 blink. After that, plug off the power adaptor and then plug on the power adapter to restart the server. Finally, the server will operate using the Factory Default values.

13.4 Default Parameters List

Host Information

- Comment (Optional): WUS-3200 USB MFP Server
- Host Name: WUS-3200
- Workgroup: LevelOne
- Code Page of File Server: Western European

TCP/IP

- Automatically get IP using DHCP: enabled
 Manual DNS: none

 - DHCP Failed:
 - IP: 192.168.1.100
 - Subnet Mask: 255.255.255.0
- Static IP: disabled
 - IP: 192.168.1.100
 - Subnet Mask: 255.255.255.0
 - Gateway: none
 - DNS: none

Wireless

- Basic
 - Region or Domain: USA
 - Network Type : Infrastructure
 - SSID : none
 - Channel No : Auto
- Security
 - Security System : disabled

Protocols

- IPP Printing: enabled
- LPR Printing: enabled
 - Queue Name (USB1): USB1_LQ
 - Queue Name (USB2): USB2_LQ
- Enable Raw TCP Printing/JetDirect
 - TCP Port (USB1): 9100
 - TCP Port (USB2): 9101
- SMB/CIFS Print/File Server: enabled
 - Internet Access: disabled

- Server Authentication: enabled
- FTP Server: Enabled
 - FTP Port: 21
 - Passive Mode: enabled
 - Set Maximum Session Number: 5 (enabled)
 - Server Authentication: enabled
 - Allow Anonymous Login: disabled
- SANE Server: Enabled
 - SANE Port: 6566
- Enable UPnP: enabled

SNMP

- Authentic Community: public
- Trap Community: public
- Trap Address: 0.0.0.0
- SysContact: support@level-one.de
- SysName: LevelOne WUS-3200 MFP Server
- SysLocation: www.level1.com
- EnableAuthenTrap: 2 (disabled)
- SNMPv3: disabled

User Account

- Administrator:admin
- Password: admin

Chapter14 Upgrade New Firmware

This chapter describes how to upgrade your new firmware. You can use the following Procedures to upgrade new firmware

Procedure A: Using PC User Software

- 1. Open the WUS-3200 MFP Server Control Center. It will automatically search the existing servers and display their status.
- Select the server that you want to upgrade the firmware. Double click the selected server and enter Administrator Name and Password. Please note that the default values of Administrator and Password are admin.
- 3. Select the **Maintenance** button.

LevelOne USB MFP Se	rver Control Center		
General Configuration Supported Protocols	USB Device Information User Accounts SNMP	TCP/IP Email	Wireless Maintenance
Restart Server Image: Control of the second server Image:	Default <u>Firmware</u> ww.level1.com		
New Firmware F	ile : ze : 0 bytes		🕞 Open
	0%		🕒 Upload
			<u>I</u> <u>C</u> lose

- 4. Click **Open** your new firmware file and click **Upgrade**.
- 5. Wait about 15 seconds for system reboot.

Procedure B: Using Server's Web Pages

1. Power on WUS-3200. Suppose WUS-3200 is in DHCP mode.

- 2. Check WUS-3200's IP address.
- 3. First, run WUS-3200 control center. The control center will automatically search WUS-3200 on the LAN. Then WUS-3200's IP address will be shown in control center.
- Run any web browser, like Microsoft Internet Explorer. Go to http://a.b.c.d to access WUS-3200's home page, where a.b.c.d is WUS-3200's IP address.
- 5. Click **CONFIG.**
- 6. Login WUS-3200 with administrator "admin" and password "admin".
- 7. Click Maintenance.

ONFIG	
General Configuration	Maintenance
USB Device Information	Factory Default
TCP/IP	Download New Firmware
Wireless	Upgrade Firmware
Supported Protocols	
User Accounts	
SNMP	
Email	
Restart Server	
Maintenance	

8. Click Upgrade Firmware.

Upgrade System Firmware

Upgrade LevelOne WUS-3200 Firmware			
New Firmware File		Browse	Upload

9. Click **Browse** button to choose the file of new WUS-3200 firmware. 10.Click **Upload** button to start firmware upgrade.

11.Wait about 15 seconds for system reboot.

Procedure C: Using Init Button and TFTP Client to Upgrade

Firmware in Emergency

- 1. Simultaneously press Init button and power on (plug the power adaptor line) the server until LED indicators of Power, USB1 and USB2 blink. *Please note that after that, the servers will operate using the factory default values after next restarts, i.e., your MFP server's configuration will recover to Factory Default values.*
- 2. Start the TFTP client Tool: Image Burner

accessories	·	
ames 📷	P CARACTER STOCKED	
📷 LevelOne	🔸 🛅 MFP Server Control Center	Image Burner
Morton Ghost 2003	A CONTRACTOR OF THE	MFP Server Control Center
CoundMAX		🛃 🛃 Uninstall MFP Server Control Center

3. Type the server's Fallback IP address: 192.168.1.100 and click **Open Image** to open your new firmware. Please note that you must configure your PC's TCP/IP such that PC and server belong to the same LAN, i.e. PC's IP is 192.168.1.xxx and subnet mask is 255.255.255.0.

🖬 LevelOne USB MFP Server Image Burner		
Server IP Address (Factory Default) : 192.168.1.100	About	
New Firmware File :	😂 Open Image	
File Size : 0 bytes	🗈 Upload Image	
Note : Please configure your PC's TCP/IP to the same LAN.		
i.e. IP is 192.168.1.xxx and NetMask is 255.255.255.0		

- 4. Click **Upload Image**.
- 5. Wait for "Image Uploading" to finish and then click **Close**.



6. Plug-off power adapter and then plug-on the power adapter to restart server.

Chapter15 Init Button

The Init button is used for:

 Print Configuration Report: Press Init button for exceeding 3 seconds and then the connected HP printer or PCL supported printer will print out the system configuration.

```
System Configuration
```

```
Host Infomation:
  Comments: LevelOne WUS-3200 MFP Server
  Server Name: WUS-3200
  Workgroup Name: LevelOne
  File Server Authentication: User Name/Password
  File Server Code Page: Western European
TCP/IP Status
  IP Address : 192.168.1.100
  Subnet Mask: 255.255.255.0
  Gateway : 192.160.0.252
DNS Server : 1.0.0.0
  DHCP Server: 0.0.0.0
  Lease Time : 0 (seconds)
Supported Protocol Status
  SMB Printing Protocol
    Path(USB1):\\WUS-3200\psc 1310 ser
    Path(USB2): None
  LPR Printing Protocol
IP Address: 192.168.1.100
    Queue Name(USB1): USB1_LQ
    Queue Name(USB2): None
  Raw TCP Printing Protocol
    TCP Port(USB1): 9100
    TCP Port(USB2): 9101
  Internet Printing Protocol
    URL(USB1): http://192.168.1.100/psc 1310 ser
    URL(USB2): None
  FTP File Server: enabled
    Passive Mode: on
    FTP Port: 21
  SAME Server: enabled
    SANE Port: 6566
  SMTP Protocol
    SMTP Server Name:
    Subject:
    Sender Address(From):
    Receiver Address(To):
    Cc:
USB Status
  USB1:
    Printer:
      - Name: psc 1310 ser
- Model: hp psc 1310 series
       - Description:
    Scanner:
      - Name: hpoj:mlc:usb:USB1_Scanner
      - Model: psc 1310 series
       Description: multi-function peripheral
   Disk: none
  USB2:
   Printer: none
   Scanner: none
   Disk: none
```

2. **Maintenance**: Simultaneously press **Init** button and turn on (plug the power adaptor line) the server until USB1 and USB2 LED indicators simultaneously blink. After that, the server will do the

following tasks:

- A. Perform a Factory Default of the MFP server, which will restore most of the parameters and settings to factory default values,
- B. Perform a TFTP server. You can upgrade new firmware using any TFTP client tool (refer to Chapter 14 Upgrade New Firmware Procedure C).

Note: After performing the tasks mentioned above, you have to plug off the power adaptor and then power on the power adaptor to restart MFP server.

Chapter16 Technical Specifications

Supported Printers	Firmware Upgrade
Support for printers and MFPs from	Firmware upgrade using the internal
Brother, Canon, Epson, HP, IBM, Kyocera,	web pages, Windows Tool, and TFTP
Lexmark, Minolta, NEC, Oce, OKI, Ricoh,	
Sharp, Star, TEC, Toshiba, Zebra, Xerox,	Network Connection
etc.	LAN: 10/100 Mbps Ethernet
Please note that the server do not	• Wireless: IEEE 802.11b/g
support most GDI printers.	 Infrastructure / ad hoc mode
Supported Scanners	Security
Support for scanners of HP all-in-one	• WEP 64 bits/ 128 bits
MFPs and some recommended scanners.	• WPA TKIP
Print Server Supported Systems	MFP Connection
• Microsoft Windows: 98SE, Me, 2000,	• 2 USB 2.0 High-speed ports.
XP, and 2003	Bi-directional support
• Unix/Linux	
Apple MAC OS X	Hardware
	• 2 USB 2.0 High-speed host ports
File Server Supported Systems	Ethernet 10/100 Mbps
• Microsoft Windows: 98SE, Me, 2000,	ARM9-based RISC microprocessor,
XP, and 2003	operating at 166MHz
• Unix/Linux	Memory: 2 MB Flash, 8 MB RAM
Apple MAC OS X	• Antenna: Build in 2dBi, 2.4Ghz
File Server Supported Code Pages	Front Panel
Western Europe and United States	• 5 LED indicators: Power, Link,
Central Europe	Status, USB1 and USB2
• Greek	 Init button to perform factory
• Cyrillic	default, upgrade firmware, and
Japanese (Shift JIS)	print configuration
• Korean	
Traditional Chinese (Big 5)	Power Consumption
Simplified Chinese (GB 2312)	Power provided by external supply
• Thai	(5V 2A).
• Arabic	Maximum consumption 10W

Scan Server Supported Systems	<u>Dimensions</u>
Microsoft Windows: 98SE, 2000, XP	• Height 2.6 cm
and 2003	• Width: 7.6 cm
Supported Protocols	• Depth: 10.4 cm
• General	• Weight: 110 g
- DHCP, FTP, HTTP, SNMP v1/v2c/v3	
Print Server	Environmental
- TCP/IP: LPR, Raw TCP,	• Temperature: 40-105 °F (5-40 °C)
NetBIOS over TCP/IP (SMB), IPP,	• Humidity 0 – 70%
File Server	
- SMB: NetBIOS over TCP/IP	Approvals
- FTP	• EMC:
Scan Server	- EN 55022/1998
- SANE Server	- EN 55024:1998
	- EN 61000-3-2
Supported Web Browsers	- EN 61000-3-3
Any standard web browser (Netscape	- FCC part 15 Subpart B, Class
6.x or higher and MS Internet Explorer	A
5.x or higher).	• Safety:
	- EN 60950
MFP Server Management	
Internal web pages for configuration,	Included Accessories
monitoring and firmware upgrading	Quick Installation Guide
Windows tool for installation,	Power supply
configuration, monitoring and	Installation CD
firmware upgrading	

Chapter17 Appendix

17.1 Compatibility List

- WUS-3200 USB MFP server should support most USB printers (except some Host-based/GDI printers), and USB disks or USB memory cards.
- WUS-3200 USB MFP server should support the scanners of HP all-in-one printers (MFP). The supported MFPs are list below.

Model	MFP Series
	HP OfficeJet G55, HP OfficeJet G85, HP OfficeJet G95, HP
	OfficeJet D125, HP OfficeJet D135, HP OfficeJet D145, HP
HP OfficeJet	OfficeJet D155, OfficeJet K60, OfficeJet K80, HP OfficeJet
	V40, HP OfficeJet 4100 series, HP OfficeJet 4105 series, HP
	OfficeJet 4110 series, HP OfficeJet 4115 series, HP OfficeJet
	4200 series, HP OfficeJet 5105 series, HP OfficeJet 5110
	series, HP OfficeJet 5500 series, HP OfficeJet 6100 series,
	HP OfficeJet 6150 series, HP OfficeJet 6210 series, HP
	OfficeJet 7100 series, HP OfficeJet 7110, HP OfficeJet 7130,
	HP OfficeJet 7140, HP OfficeJet 7200 series, HP OfficeJet
	7300 series, HP OfficeJet 7400 series, HP OfficeJet 9100
	series
HP PSC	HP PSC 720 series, HP PSC 750 series, HP PSC 760 series,
(Printer/Scan	HP PSC 950, HP PSC 1100, HP PSC 1200, HP PSC 1205, HP
ner/Copier)	PSC 1210, HP PSC 1310, HP PSC 1350, HP PSC 1610, HP
	PSC 2110, HP PSC 2150, HP PSC 2170, HP PSC 2175, HP
	PSC 2210, HP PSC 2350, HP PSC 2400 series, HP PSC 2500
	series, HP PSC 2600 series, HP PSC 2700 series
HP LaserJet	HP LaserJet 1220, HP LaserJet 3200, HP LaserJet 3200se,
all-in-ones	HP LaserJet 3200m, HP LaserJet 3300, HP LaserJet 3310,
	HP LaserJet 3320, HP LaserJet 3330, LaserJet 3015,
	LaserJet 3020, LaserJet 3030, LaserJet 3380

 WUS-3200 USB MFP server should support the following printers to print configuration report using **Init** button

Model	Printer
Business	1100 series, 2300 series, 2600 series, 3000
Inkjet	series
Desk jet	3600 series, 5100 series, 5550 series,
	5600series, 5850 series, 6122 series, 6127
	series, 9300 series, 9600 series, 995c series,
	cp1700 series
Office jet	4100 series, 4200 series, 5500 series, 6100
	series, 7100 series, 9100 series, PSC 1200
	series, PSC 1300series, PSC 2400 series,
	PSC 2500 series
Photo smart	140 series, 240 series, 7200 series, 7600
	series, 7700 series, 7900 series
Laser Printer	most PCL black & white and color printers