

KCodes 6 Series v2 USB 2.0 Device Server

User's Manual

Chapter 1 Introduction

Thank you for purchasing 601/601n/604/604n USB Device Server (in the following referred to as “Server”). This Server is designed to connect your Multifunction Printer, Scanner, Fax, Multifunction Printer, Hard Drive, iPhone, iPod, USB Digital TV Tuner, Digital Camera, USB Webcam, USB Speaker, USB CD, USB DVD to your network, allowing all network users’ access to these shared USB devices.

1.1 About 4 Models Described in this Manual

This manual provides introductory information as well as detailed instructions on how to set up and manage 6 Series in various network environments. The following table shows the differences among the 4 models. All 4 models have a 10/100 Mbit/sec Lan port. However, 601 v2 and 601n v2 has only one USB port, while both 604 v2 and 604n v2 have four USB ports. Compared with 4 models have an additional wireless module (802.11b/g/n). Except for the wireless configuration, most configuration and operations are the same for 601 v2/604 v2 and 601n v2/604n v2. Similarly, almost all of the configuration and operations are the same for these models except that only one USB device can be connected to 601 v2/601n v2 while at most four USB devices can be connected to 604 v2/604n v2. Unless explicitly specified, all instructions in the manual apply to 6 Series.

Model Name	LAN	Wireless	USB Port(s)
601 v2	Yes	No	1
604 v2	Yes	No	4
601n v2	Yes	Yes	1
604n v2	Yes	Yes	4

To fully benefit from this document, you should be familiar with basic networking principles. The instructions described in this manual are based on the settings in a new Server. To reload the Factory Parameters, you can reset this Server back to Factory Default, which will restore most of the settings. For details, please refer to the chapter “Restore Factory Defaults”.

1.2 Customer Support

Should you require any technical assistance, please contact your product reseller. Or you can visit our website for latest product information. This document is subject to changes without prior notice.

Chapter 2 Product Overview

2.1 Package Contents

Verify that nothing is missing from the 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:

- ✓ This Server (601/601n/604/604n)
- ✓ CD (Control Center and User's Manual and Quick Installation Guide)
- ✓ Power Adaptor

2.2 Product CD

This CD provides easy-to-use Control Center software, and the User's Manual and Quick Installation Guide.

2.2.1. Start-up Procedures

If your computer is configured to auto start CDs, this 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

1. Power Adaptor Connector : 5V/1A (for 601 v2/601n v2) or 12V/2A (for 604 v2/604n v2)
2. Init Button : for restoring the configurable parameters to the default values
3. Wireless Station (only for 601n v2/604n v2) : IEEE 802.11 b/g/n wireless station with antenna
4. Ethernet Connector : connected to a twisted pair category 5 cable
5. USB Host Ports: USB 1.1/2.0 low, full, and Hi-Speed compliant
6. Indicators
 - ✓ For 6 Series
 - Power Indicator is lit while power is applied. If it is not lit, or if it blinks, there is a problem with the USB device server or Power Adapter.
 - USB Indicator (one for 601 v2/601n v2, four for 604 v2/604n v2) is lit while a USB device connects to a USB Port of the USB device server. If it is not lit, there is a problem with the USB device or the USB device server.
 - ✓ For 601 v2/604 v2
 - Link Status is lit while network is applied. If it is not lit, it indicates that this server does not connect to the network.
 - Status Indicator blinks to indicate network activity.

- ✓ For 601n v2/604n v2
 - LAN Indicator blinks to indicate wired network activity. If it is lit, it indicates the wired network is applied. If it is not lit, it indicates that the server does not connect to the wired network.
 - WLAN Indicator blinks to indicate wireless network activity. If it is lit, it indicates the wireless network is applied. If it is not lit, it indicates that the server does not connect to the wireless network.

2.4 Supported USB Devices

The USB device server supports the following types of USB devices.

- ✓ USB Printer
- ✓ USB multifunction printer (MFP/AIO)
- ✓ USB scanner
- ✓ USB storage
- ✓ iPad
- ✓ iPhone

Chapter 3 Basic Installation

3.1. Connecting the Hardware

1. Make sure that your USB devices are switched off and that the Server's Power Adapter is disconnected.
2. Connect the USB devices to the USB ports with the USB cables.
3. Connect the Server to the network with a twisted-pair category 5 cable, 10baseT or 100baseTX.
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. (For 601/601n, only USB1 indicator will flash.) When the Link indicator lights up, the Server is correctly connected to the network. When USB1 and USB2 indicators stop flashing, the Server starts to work normally.

3.2. Wireless connection

This section only applies to 601n/604n.

3.3.1. Preliminary

- ✓ Before you can access wireless network, wireless parameters should be set correctly. You have to setup the first wireless parameter set through LAN (wired) connection.
- ✓ Wireless access can be set as infrastructure (station) mode, which need an access point to route network messages with the same SSID.
- ✓ Wireless access can be secured by WEP (64/128), WPA-PSA (TKIP/AES), and WPA2-PSK (AES).
- ✓ 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 150 MBits depending on access point's capability.

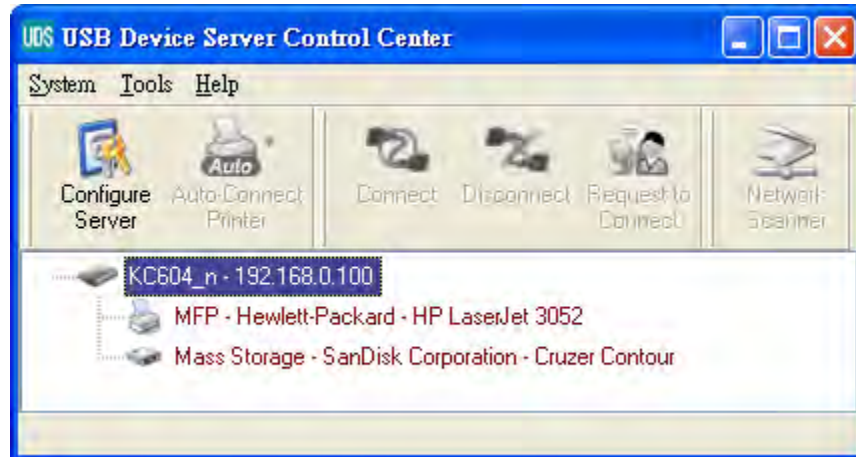
3.3.2. Set Wireless Configuration Using Control Center

1. Install USB Device Server Control Center. It is available in the 601n v2/604n v2 USB Device Server Product CD.
2. Start USB Device Server Control Center and Auto-searching USB device server window will appear.

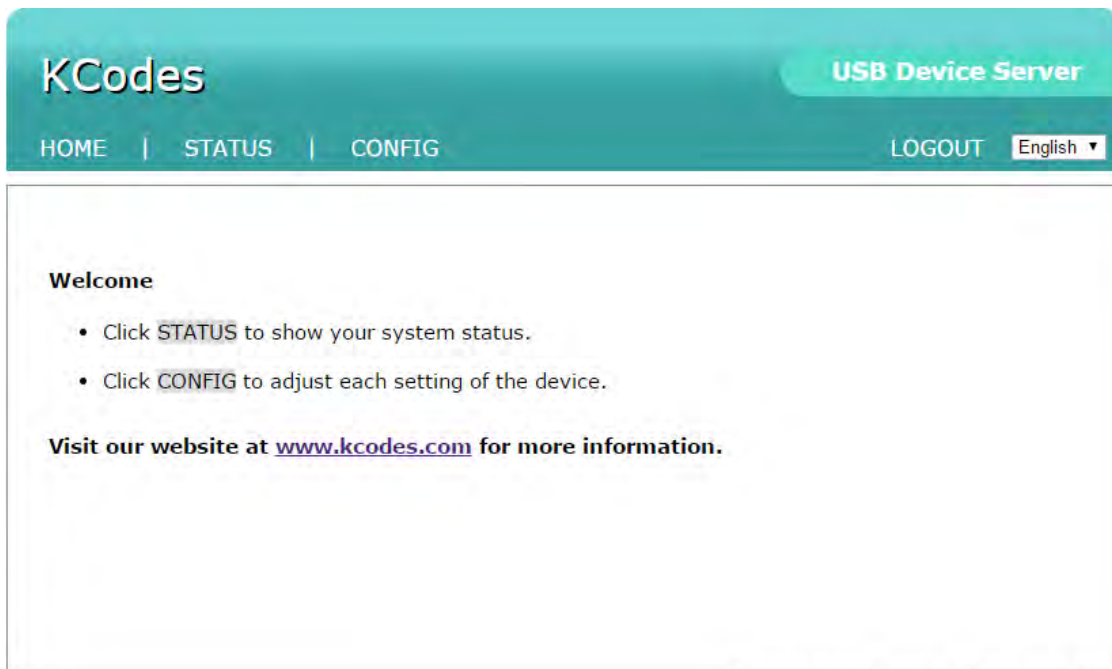


✎ If the wireless parameters are not correct or not set yet, you have to use LAN to access USB Device Server Control Center.

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

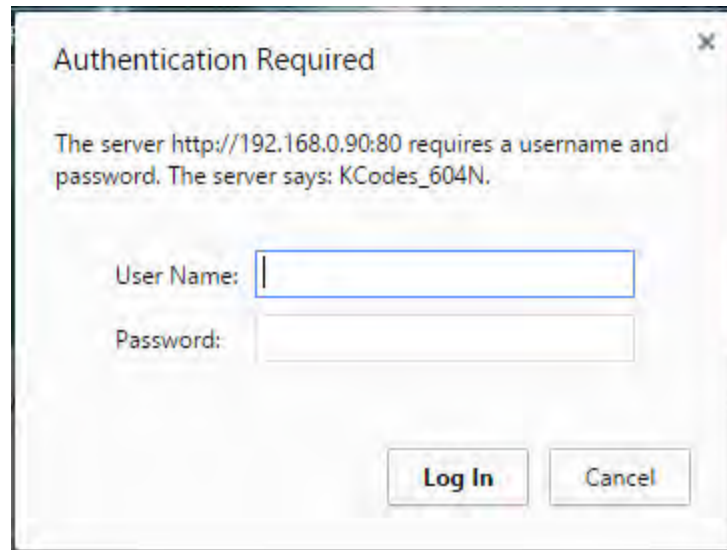


4. Double click the highlighted server (or click the “Configure Server” button) to get the server’s web pages. Click CONFIG icon.



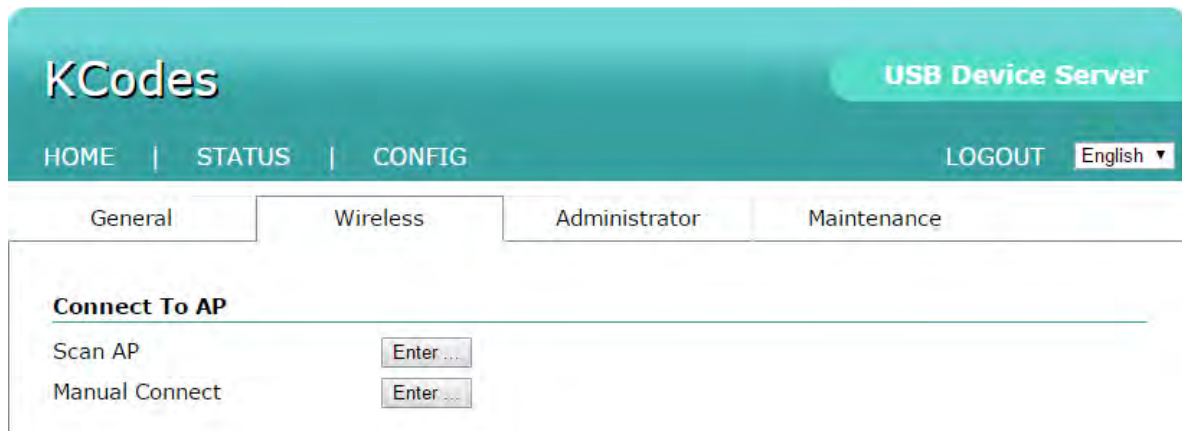
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5. Login with administrator ID (default: admin) and its password (default: admin).



The image shows a standard Windows-style dialog box titled "Authentication Required". The text inside reads: "The server http://192.168.0.90:80 requires a username and password. The server says: KCodes_604N." Below this text are two input fields: "User Name:" and "Password:". At the bottom of the dialog are two buttons: "Log In" and "Cancel".

6. Click Wireless icon.



The image shows the web interface of the KCodes USB Device Server. The header is teal with the "KCodes" logo on the left and "USB Device Server" on the right. Below the header is a navigation bar with links for "HOME", "STATUS", "CONFIG", "LOGOUT", and a language dropdown set to "English". Underneath is a sub-menu with tabs for "General", "Wireless", "Administrator", and "Maintenance". The "Wireless" tab is selected, and the main content area is titled "Connect To AP". It contains two rows: "Scan AP" with an "Enter ..." button, and "Manual Connect" with an "Enter ..." button.

7. There are two ways to connect to wireless network. One is "Scan AP", the other is "Manual connect".
8. By "Scan AP", click "Enter" and choose the SSID you want to connect. After select, you have to enter the password.
9. By "Manual connect, to join an existing wireless network, you have to set the correct SSID, and the correct security method with the correct key information.
10. If the wireless network is secured by WEP64 or WEP128, key index and WEP key must be set correctly.

KCodes USB Device Server

HOME | STATUS | CONFIG LOGOUT English

General Wireless Administrator Maintenance

Network Type Infrastructure

SSID KCoeds

Security System WEP

Authentication Open System

Key Size 64 Bit (Hex - 10 chars)

Default Key 1

Key

Connect Back

11. If the wireless network is secured by WPA-PSK or WPA2-PSK, the key formats, shared key and encryption must be set correctly.

KCodes USB Device Server

HOME | STATUS | CONFIG LOGOUT English

General Wireless Administrator Maintenance

Network Type Infrastructure

SSID KCoeds

Security System WPA-PSK

Key Format Passphrase (8~63 chars)

Encryption TKIP

Key

Note: WPA-PSK/WPA2-PSK is not available with ad-hoc networks.

Connect Back

12. Click Submit to save your settings. And the server will reboot.
13. You have now finished the procedure of setting the wireless parameters

After properly configuring the wireless parameters, you can remove the network cable and reboot the 601n/604n. 601n/604n will then connect to your wireless network. 601n/604n will detect if a network cable is plugged-in or not. If a network cable is plugged-in, 601n/604n will always connect to the

network through the network cable. Otherwise it will always connect to the network through wireless module.

Once 601n v2/604n v2 connects to the network, either by network cable or by wireless module, all operations to use USB device server are exactly the same.

3.3. Assigning an IP Address to the Server

3.3.1. Preliminary

- ✓ If you have a DHCP server on your network, your Server will receive an IP address automatically. The IP address will then appear on the Control Center or on the page of configuration report that you printed earlier. If your DHCP server does not give an IP address to the Server, the Server will use the automatic private IP addressing IP: 169.254.0.0. ~ 169.254.255.255
- ✓ If you are not working in a DHCP network, you need to manually set the Server's IP address.

3.3.2. IP Address

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

3.3.3. Methods for Setting the IP Address

You can set the IP address of your Server using one of the following methods, depending on your network operating environment:

- ✓ Automatic IP Address Assignment
- ✓ Manual IP Address Assignment

3.3.4. Server Names and Server Name Rules

The default server name of the Server is "KC601" (for 601) or "KC604" (for 604) or "KC601n" (for 601n) or "KC604n" (for 604n). If you put two or more Servers in your local area network, to avoid using the same server names you have to change the server names by using the Control Center or the Server's web pages. If your server name is longer than 15 characters, the Server uses only the first 15 characters.

3.3.5. Setting 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 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 the DNS server IP address using Server's web pages or the Control Center.

3.3.6. Setting the IP Address Using the Control Center

1. Install the Control Center. The Control Center is available on the Product CD.
2. Start the Control Center and Auto-searching Server window will appear.



3. If the tool finds multiple Servers in your local area network, then you have to select one Server from the Server List.



4. Double click the highlighted server (or click the "Configure Server" button) to get the server's web pages. Click CONFIG icon.
5. Login with administrator ID (default: admin) and its password (default: admin).

KCodes
USB Device Server

HOME | STATUS | CONFIG
LOGOUT English ▼

General
Wireless
Administrator
Maintenance

Server Information

Server Name	KC604N-057D7F	15 letters[max.]
Workgroup	WORKGROUP	15 letters[max.]
Description (optional)	KCodes 604N USB Devic	48 letters[max.]

Storage Access Mode

NetUSB Mode

Server Mode

TCP/IP

Automatically get IP by DHCP

Static IP

IP Address	192.168.1.100	15 letters[max.]
Subnet Mask	255.255.255.0	15 letters[max.]

6. Click the button corresponding 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.
7. Click Submit to save your settings. And the Server will reboot. You have now finished the procedure of setting the IP address.

Chapter 4 Using the USB Device Server

4.1. Introduction

The goal of this produce is to provide the USB device server in a single product. We developed a new technology called “NetUSB” to achieve this goal. Basically, the “NetUSB” is a “USB over IP” technology that transparently redirects all USB packets to TCP/IP network channel. “NetUSB” allows you to use USB devices as if they were connected directly to your PC although they are actually remotely connected to the 601/601n/604/604n USB device server.

4.2. Connect & Disconnect

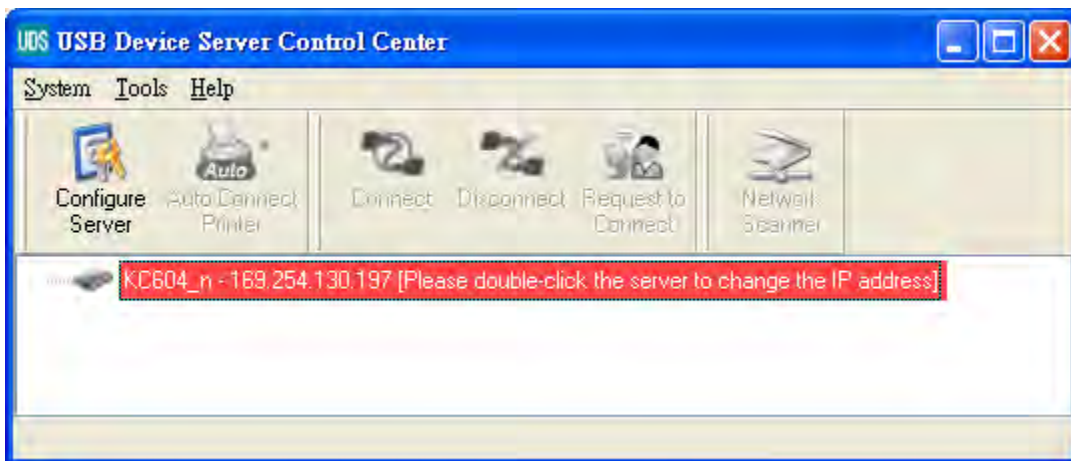
“NetUSB” allows you to use USB devices as if they were connected directly to your PC although they are actually remotely connected to the 601/601n/604/604n USB device server. The “connect” operation is a

software operation that simulates an actual USB device plug-in. That is to say, when you do a “connect” operation in the Control Center, PC can then detect a USB device’s plug-in, although actually you do not plug in any USB device. Similarly, the “disconnect” operation is a software operation that simulates the disconnection of the USB device. Once the connect operation is successful, the operations to use that USB device are just the same as if the USB device is directly connected to the PC.

If a USB device is “connected” by a PC, we say that PC has the ownership of the USB device. Only one PC can get the ownership of a USB device at the same time. Therefore, if a USB device is connected by one PC, no other PC can connect this USB device until this USB device is disconnected.

4.3. Subnet Issue

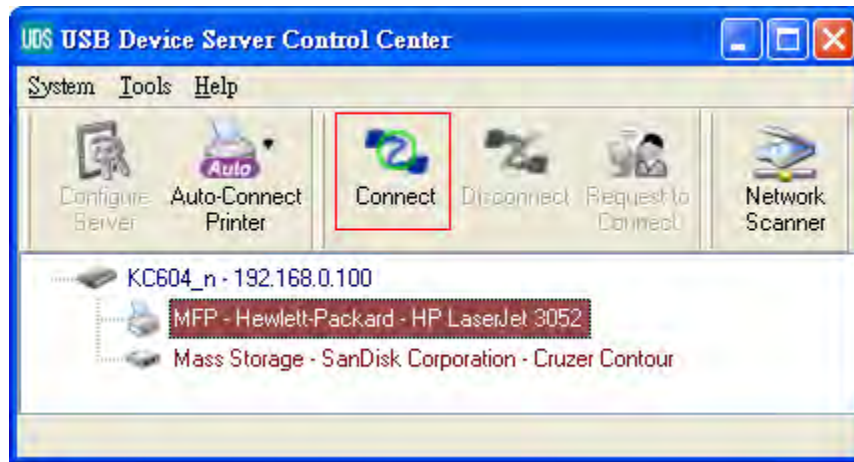
Before using the NetUSB technology, you must first make sure that your PC can access USB device server via TCP/IP. The simplest way to do this is using “Control Center” to search for the USB device server on the network and change its IP address to be the same subnet as your PC. If the server and your PC are not in the same TCP/IP subnet, Control Center will show the server in red, as the following figure. You must change the IP address (or using DHCP) of the server so that the server and your PC are in the same subnet. Control Center will show these servers in blue, meaning you can access these servers by the NetUSB technology.



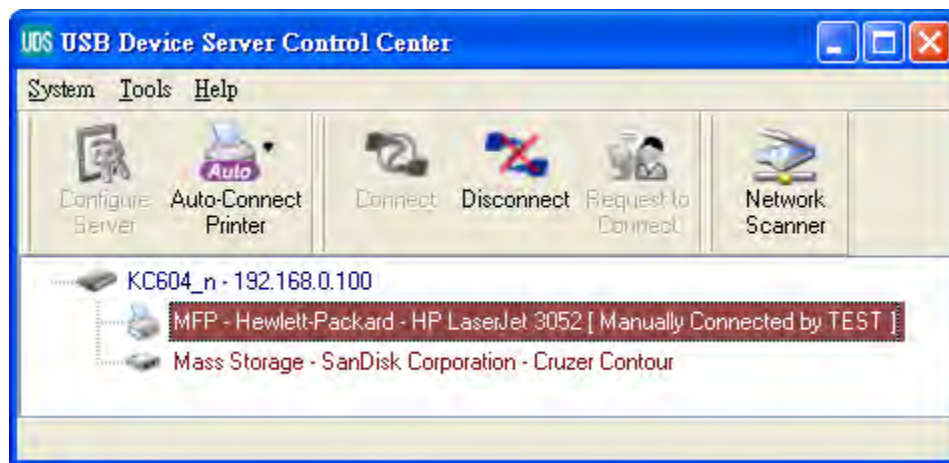
4.4. Installation of USB Device Driver

Some USB devices, like printers or MFPs (multifunction printers), require to install vendor-supplied driver (usually on CDROM). For those USB devices that do not need to install driver, please skip this section.

1. Insert the CDROM into the CD drive and run the “autorun” program.
2. Follow the instructions of the installation program to install driver.
3. When the installation program asks you to plug-in the USB device, run the “Control Center”.
4. In the Control Center, click the USB device server that has the desired USB device attached.
5. Click the desired USB device as the following figure.



6. Click the “Connect” button. Then the message “Manually Connect by your_computer_name” will be shown, as the following figure.

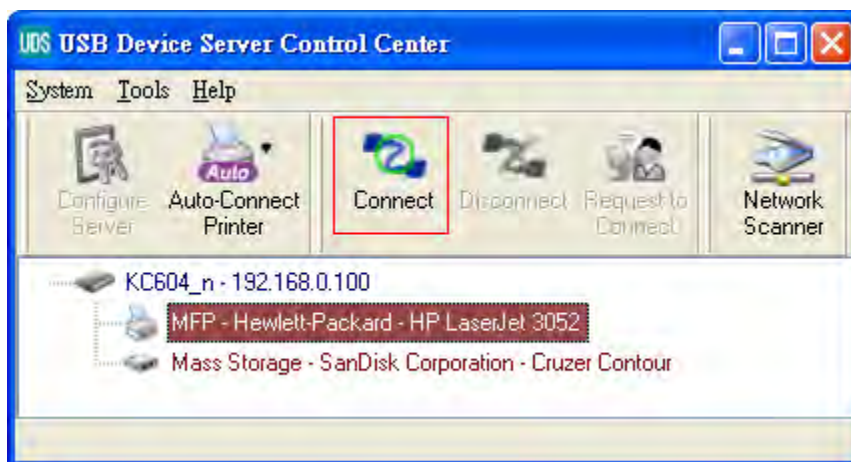


7. Now, the installation program will detect the USB device and continue to install driver.
8. After the installation is completed, click the USB device in the Control Center and then click the “Disconnect” button to disconnect the USB device.

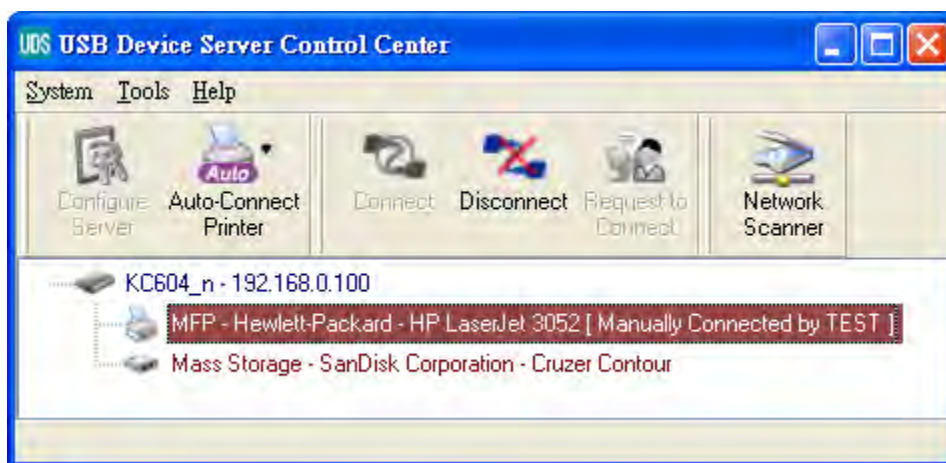
Now the driver of your USB device is installed.

4.5. Using the USB Device Server

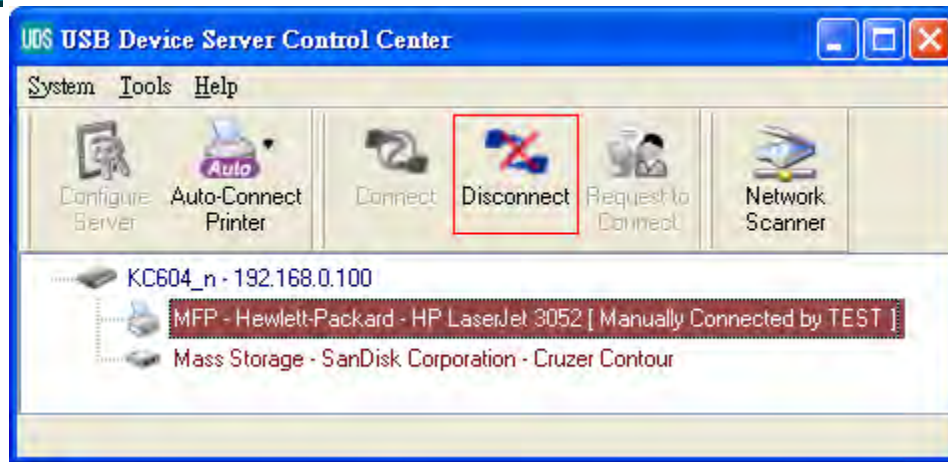
1. In the Control Center, click the USB device server that has the desired USB device attached.
2. Click the desired USB device.



3. Click the “Connect” button. Then the message “Manually Connect by your_computer_name” will be shown.



4. Now, PC will detect the plug-in of the USB device. The “connect” operation is a software operation that simulates an actual USB device plug-in. That is to say, when you do a “connect” operation in the Control Center, PC can then detect a USB device’s plug-in, although actually you do not plug in any USB device.
5. Then, just use the USB device as if it is connected directly to your PC’s USB port.
6. After you finish using the USB device, click the USB device in the Control Center and then click the “Disconnect” button to disconnect the USB device. Other PCs can not “Connect” the USB device until you “Disconnect” that USB device. That is to say, only one PC is allowed to connect the USB device at the same time.



4.6. Auto-Connect Printer

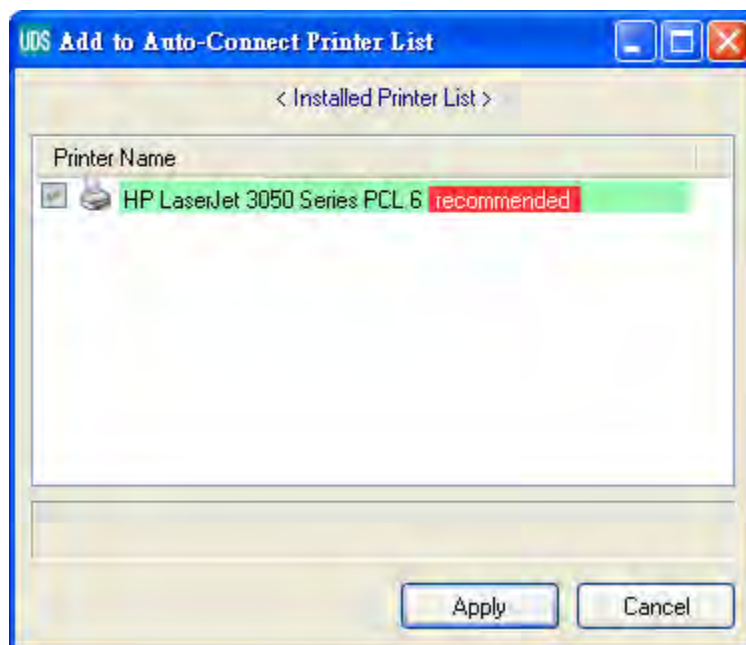
The method described in section 4.5 is so-called manual-connect, which means users must manually connect the USB device before using that device, and must manually disconnect the USB device after using the device, otherwise nobody else can connect this device. However, for printers and scanners (and MFPs), the USB device server supports auto-connect so users don't need to manually connect/disconnect. This and the next sections show you how to do this.

After the driver is installed as described in section 4.4, you can see a newly created printer in the Control Panel's "Printers and Faxes". Follow the steps below to do a NetUSB auto-connect printing.

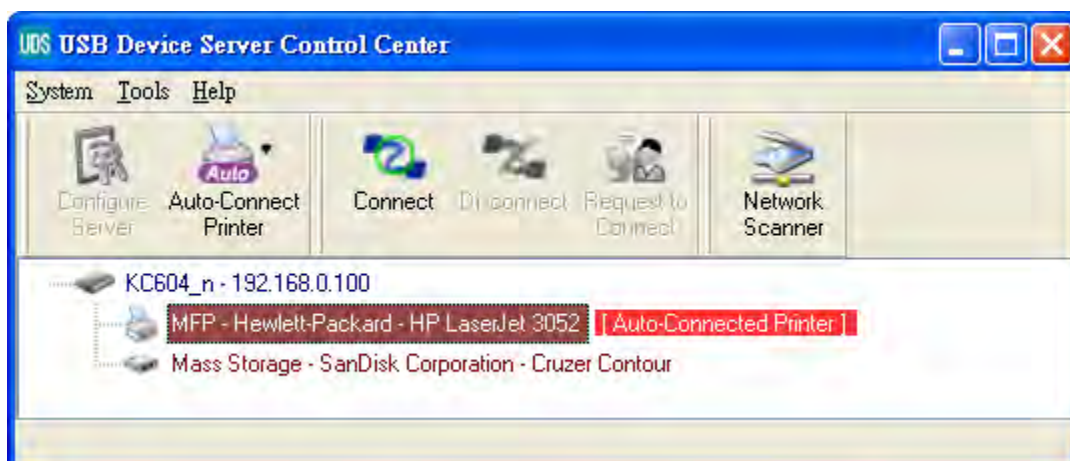
1. In the Control Center, click the USB device server that has the desired printer (or MFP) attached.
2. Click the desired printer (or MFP).
3. Click the "Auto Connect Printer" button and choose "Set Auto-Connect Printer".

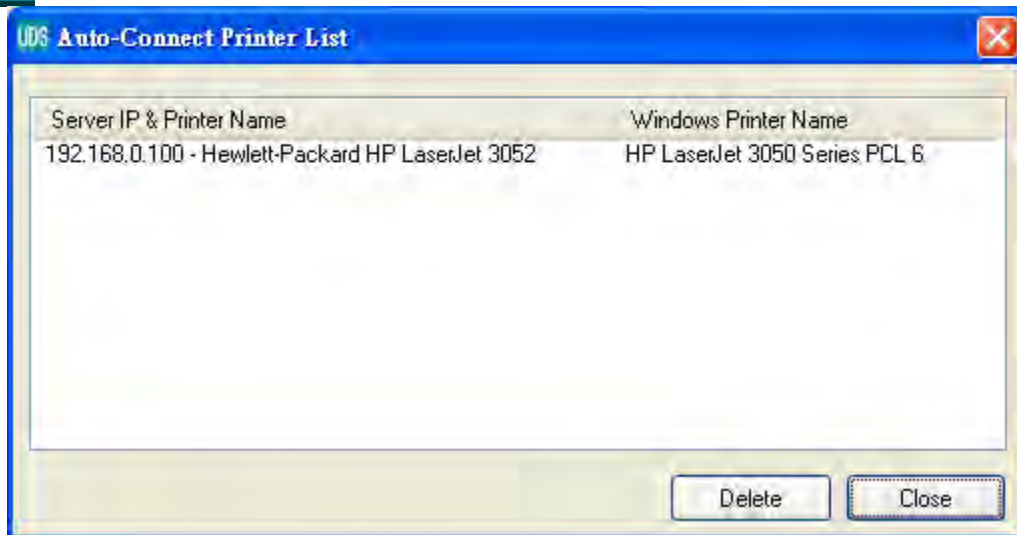


The following figure will appear.

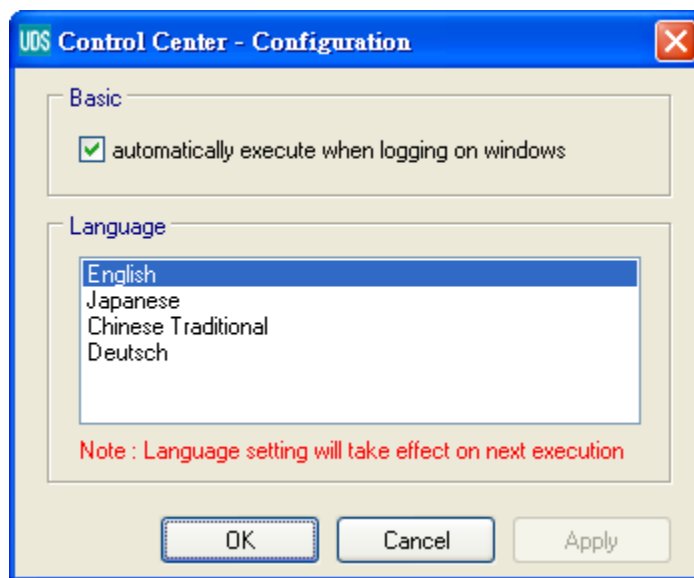


4. Choose the desired printer. The desired printer must be the Windows printer (this is a logical printer) that matches the printer attached on the USB device server (this is a physical printer). Then click the “Apply” button.
5. Then, the printer will be marked as an “Auto-Connected Printer” in red. If you choose “Auto-Connected Printer List” in the “Tools” menu, you can see a newly created item that describes the association between the Windows printer and the physical printer on the server.





6. Then try to issue a print job to the desired printer. You will see the Control Center will automatically do a connect operation. Then, the print job will be issued to that printer.
7. Even you already properly setup an auto-connected printer, the Control Center must be running (in the background) while a print job is issued. This means you'd better run the Control Center every time after you login Windows. In order to skip this manual operation, you can make the Control Center be run automatically after you login Windows. To do this, choose the "Configuration" item in the "Tools" menu. The following window will appear. Click on the check box and then on the "OK" button. This feature is enabled by default.



If you would like to break the association between the Windows printer and the physical printer, just click on the association and click the "Delete" button in the "Auto-Connected Printer List".

4.7. Network Scanner

For NetUSB scanning, we recommend you use Network Scanner as the following steps.

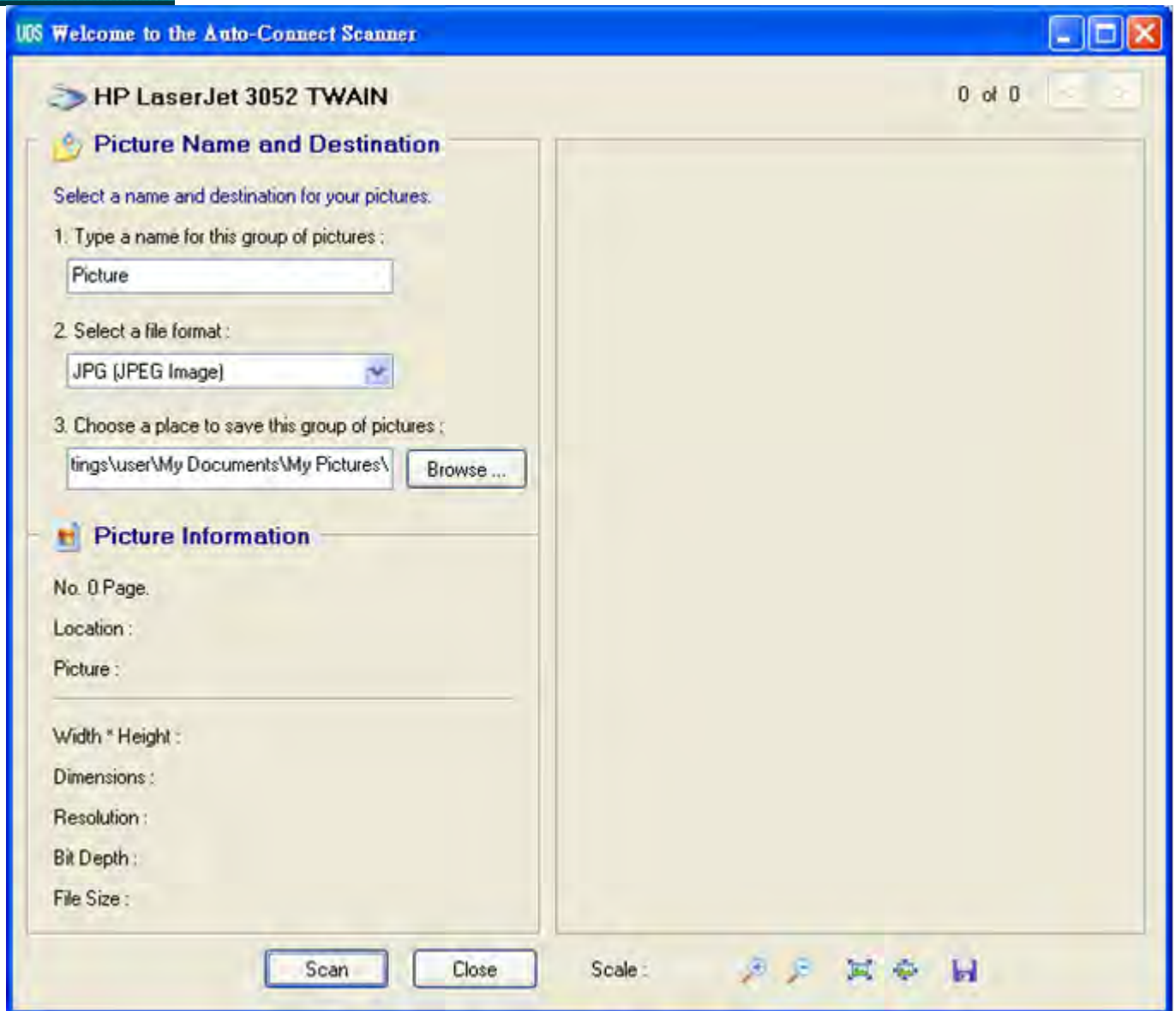
1. In the Control Center, click the USB device server that has the desired MFP (or scanner) attached.
2. Click the desired MFP (or scanner).



3. Click the “Network Scanner” button. Then you can see that the Control Center will automatically do a “connect” operation. The following window will appear.



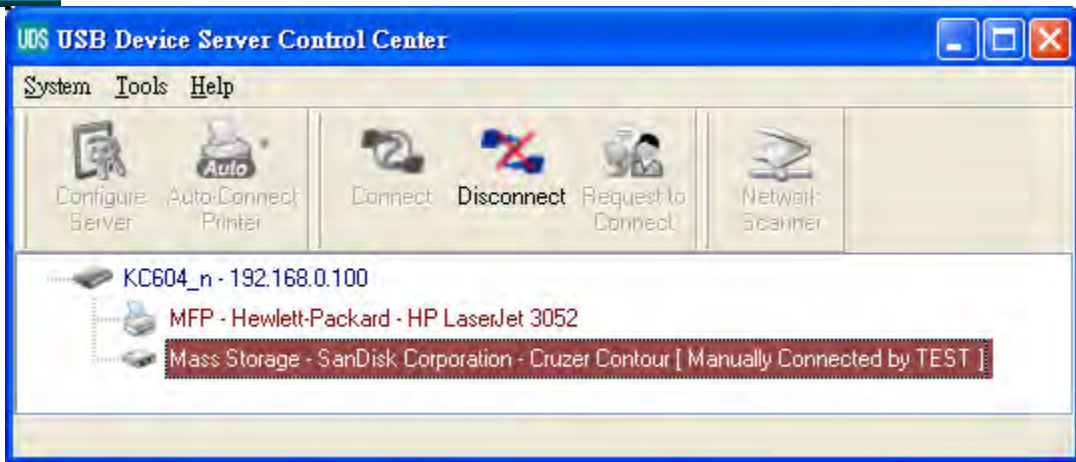
4. Choose one of TWAIN or WIA item. Click “OK”. The following window will appear.



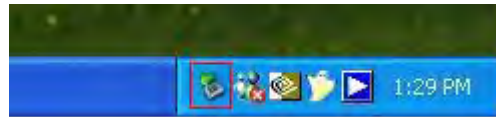
5. Follow the usual steps to do scanning.
6. After the scanning, close the “Auto-Connect Scanner” window. At this moment, Control Center will automatically do a disconnect.

4.8. USB Storage

You must use “manually connect” for USB storage. After you connect a USB storage, like the following picture, your PC will have a new disk. If the USB storage is a flash drive, the new disk is a “removable disk”.



You can see the storage icon in the system tray.



Then just use the new disk as a general disk. After you finish the disk operations, click the storage icon in the system tray and choose “Safely remove USB Mass Storage Device” to remove the USB storage, as the following figure.



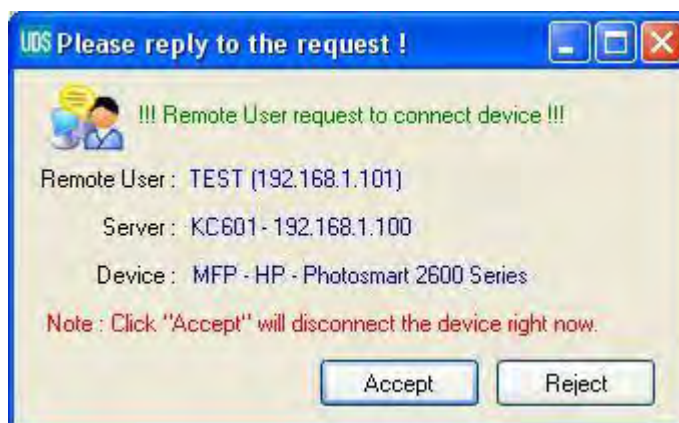
Then, in the Control Center, click the USB storage device and click the “Disconnect” button to disconnect the USB storage device.

4.9. Request to Connect

If a USB device is manually connected by any other user, basically you can not connect that device. However, we offer another mechanism called “Request to Connect” to solve this inconvenience. For example, there are two computers – TESTES and TEST. Now the owner of “HP Photosmart 2600” is TEST. Then, the TESTES computer wants to use this HP printer. The user on the TESTES computer can click the “Request to Connect” button in the Control Center. The following window appears.



At this moment, the user on the TEST computer will see the following window, indicating that another computer – TESTES is requesting to use the HP printer.



The user will choose to accept or reject. If accepted, the Control Center on TEST will automatically disconnect the device and the Control Center on TESTES will automatically connect that device.

4.10. Quitting the Control Center

The Control Center doesn't really quit if you click the "X" box (close box) at the top right corner of the window. Instead, it just minimizes itself to the system tray. There are two ways to really close the Control Center. The first way is choosing "Exit" item in the "File" menu in the Control Center. The second way is right-clicking the icon of the Control Center in the system tray and choosing the "Exit" item

4.11. Limitations

There are some limitations to use the NetUSB technology.

1. Only supports Windows XP/2003/Vista/7/8. Windows 98/ME is not supported.
2. Only one PC can get the ownership of the same USB device at the same time.

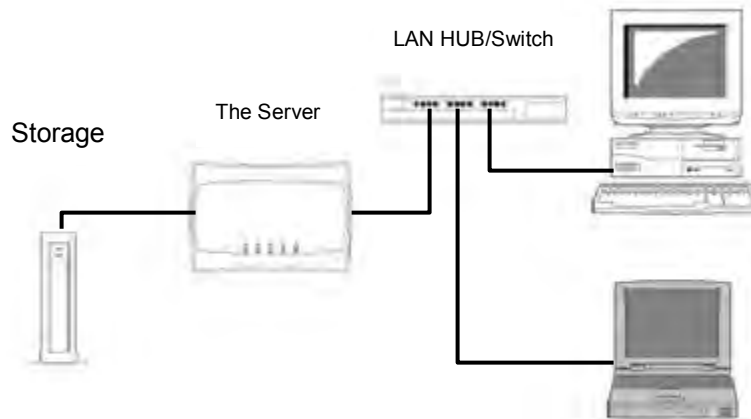
Chapter 5 File Server

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

5.1. Preliminary

1. This product supports a file format of FAT32 and NTFS. However, the “write” operation on NTFS is only supported in NetUSB mode. Please refer to the NetUSB Mode.
2. Corporation is not responsible for the loss or corruption of data in memory devices, including hard disk; Corporation is not responsible for the leak, manipulation, loss, or corruption of data in memory devices connected to the Server after unauthorized access.
3. In order to use the USB Mass Storage device connected to the Server, the SMB protocol or FTP protocol must be set up.

5.2. Connecting USB Mass Storage to the Server



5.3. Supported Codepages

- 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 codepage 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?

The Server supports Windows codepages. If users want to communicate files using FTP client tool or SMB on Windows 98/Me/2000 with the Server, they have to set their Server codepage to be same as the codepage that their Windows PC is using.

1. FTP
 2. SMB on Windows 98/Me/2000
- Configuring the Server's Codepages

Users can use the following methods to set the Server's codepage.

1. Start Control Center and Auto-searching Server window will appear.
2. If the tool finds the Servers in your local area network, select the Server from the Server List and click "Configure Server" button.
3. The Web manager will show, click the "Config" button and enter the Server's administrator (default: admin) and password (default: admin).
4. After you have logged in successfully, setting General configuration dialog appears.
5. Select your codepage form File Server Codepage box and click Apply.

UPnP Setting

UPnP Enable Disable

File Server Codepage

Language


Submit

Reset

5.4. Using 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 the Server belongs to. The default Workgroup name is "WORKGROUP". You can refer to Control Center or the Server's web pages to get it. You will see that the Server is displayed as its server name.
6. If you cannot find Workgroup name of the Server in Microsoft Windows Network, you can select Search for Computer... in My Network Places and enter the Server Name of the Server to find it.
7. Double click this Server 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 enter user name and

password to login to the Server. You can add user name and password in User Account box by the Control Center or the Server's Web page.

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

9. The shared folders will be listed as USB1_DyPz, and USB2_DyPz where Dy represents the y-th disk and Pz represents the z-th partition with respect to USB1 port and USB2 port.
10. Perform Open, Paste, Remove or Copy the files to the shared folders.

5.5. Using Shared Storage by FTP Methods for Windows

✓ Use Microsoft IE to the shared USB Mass Storages

1. Open Microsoft IE
2. In **Web Address List**, enter command: "ftp://Server's Server 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 Server 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 enter 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 to the Server. You can add user name and password in User Account box by the Control Center or the Server's Web pages.
4. The shared folders will be listed in IE.
5. Perform Paste, Remove or Copy the files to the shared folders.

✓ Use Microsoft Dos's FTP client

1. Enter Dos command "ftp".
2. Enter "open server's Server 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 Server 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 enter 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 to the Server. You can add user name and password in User Account box the Control Center or the Server's Web pages.
4. Perform FTP commands to use this FTP server.

Chapter 6 The Server's Web Pages

6.1. Introduction

The Server runs the http server, httpd on TCP port: 80. Users may use the web pages to see the Server's system status and configure the Server.

6.2. Using the Server's Web Pages

6.2.1. Displaying Server Status

Click on the "STATUS" icon to see system status, network status and Wireless Status (only for 601n/604n).

The screenshot shows the KCodes web interface with the "STATUS" tab selected. The page header includes the KCodes logo, "USB Device Server", and navigation links for HOME, STATUS, and CONFIG. There are also links for LOGOUT and a language dropdown set to English. The main content area displays the System Status section, which includes the following information:

System Status	Network Status	Wireless Status
Firmware Version		2.01
Model Name		KCodes_604N
MAC Address		00:11:E5:05:7D:7F

The screenshot shows the KCodes web interface with the "STATUS" tab selected. The page header includes the KCodes logo, "USB Device Server", and navigation links for HOME, STATUS, and CONFIG. There are also links for LOGOUT and a language dropdown set to English. The main content area displays the Network Status section, which includes the following information:

System Status	Network Status	Wireless Status
Server Name		KC604N-057D7F
Storage Access Mode		NetUSB Mode
IP Address		192.168.0.90 (DHCP)
Subnet Mask		255.255.255.0
DHCP Server		192.168.0.240
Lease Time		86400

System Status	Network Status	Wireless Status
SSID		None
BSSID		None
Channel No		None
Network Type		None
Signal Strength		None
Security System		None

6.2.2. Setting up Server Configuration

To set up the Server configuration, click on the “CONFIG” icon and then the system will request user to enter administrator (default: admin) and password (default: admin) to login.

- ✓ General Configuration
 - **Server Information:** You have to set the Server Name, which is the name to represent the Server.
 - **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.
 - **Storage Access Mode:** Set storage access mode as server or NetUSB mode.

General | **Wireless** | Administrator | Maintenance

Server Information

Server Name	<input type="text" value="KC604N-057D7F"/>	15 letters[max.]
Workgroup	<input type="text" value="WORKGROUP"/>	15 letters[max.]
Description (optional)	<input type="text" value="KCodes 604N USB Devic"/>	48 letters[max.]

Storage Access Mode

NetUSB Mode
 Server Mode

TCP/IP

Automatically get IP by DHCP
 Static IP

IP Address	<input type="text" value="192.168.1.100"/>	15 letters[max.]
Subnet Mask	<input type="text" value="255.255.255.0"/>	15 letters[max.]

- **UPnP Setting:** Enable or disable the UPnP function.
- **File Server Codepage:** Setup language for file server code.

UPnP Setting

UPnP Enable Disable

File Server Codepage

Language

- **Administrator:** You can change administrator name and password. If you forgot administrator name and password, you must perform Restore Factory Default action by plugging in the power adaptor while pressing the Init button. Please refer to the chapter “Restore Factory Defaults”.
 - Administrator: enter your desired administrator name.
 - New Password: enter your desired password.
 - Re-type Password: re-confirm the password.

The screenshot shows the KCodes USB Device Server web interface. The header includes the KCodes logo and 'USB Device Server'. Navigation links are HOME, STATUS, CONFIG, LOGOUT, and a language dropdown set to English. The 'Administrator' tab is selected. The 'Set Administrator' section contains three input fields: 'Administrator' (with 'admin' entered), 'New Password', and 'Re-type Password'. Each field has a '15 letters[max.]' character limit. 'Submit' and 'Reset' buttons are at the bottom.

- **Maintenance** If you want to restore factory default values of the Server or upgrade new firmware, you can use the Maintenance tool.
 - Restart: click this button to restart (reboot) the Server.
 - Factory Default: click this button, the Server will restore factory default values.
 - Firmware Upgrade: click Browse to find the firmware file to be upgraded. Click Upload to upload the firmware into the Server.

The screenshot shows the KCodes USB Device Server web interface with the 'Maintenance' tab selected. It features four sections, each with a button: 'Restart' (Restart button), 'Factory Default' (Factory Default button), 'Download New Firmware' (Download New Firmware button), and 'Firmware Upgrade' (Choose File button with 'No file chosen' text and a Firmware Upgrade button).

Chapter 7 Troubleshooting

This chapter provides useful information to help you resolve difficulties that you may experience with your Server. Fault symptoms, possible causes, and remedial actions are provided within a quick reference table. This Server's USB ports only support MFPs, printers, scanners, mass storage, and USB cameras.

7.1. LED Indicators

601 v2/604 v2

Indicators	Behavior	Description
Power	On	Power On
	Off	Power off/System error
Link	On	Network connected
	Off	No physical connection to network
Status	Blinking	Activity on network
	Off	No activity on network
USB	On	USB device connected
	Off	No physical connection to USB device

601n v2/604n v2

Indicators	Behavior	Description
Power	On	Power On
	Off	Power off/System error
WLAN	Blinking	Wireless Network connected (No LAN connected)
	Off	No activity on Wireless Network
LAN	Blinking	Activity on network
	Off	No activity on network
USB	On	USB device connected
	Off	No physical connection to USB device

7.2. Firewall

If a firewall software has been installed on your PC, it may block the communication between the PC and the USB device server so that the USB device server can not work properly. To solve this problem, either disable the firewall or configure the firewall to allow the following TCP and UDP ports:

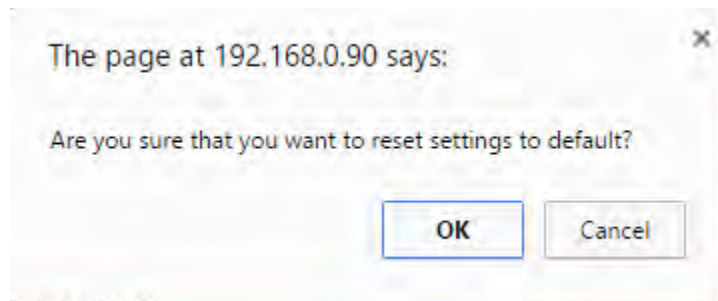
7303, 7305, 7411, 20005

Chapter 8 Restore Factory Defaults

You may restore the Server's default parameters by one of the following methods.

8.1. Using the Server's Web Pages

1. Go to the Server's web page and click CONFIG
2. Enter administrator (default: admin) and password (default: admin).
3. Click Maintenance.
4. Click Factory Default.



5. Click Yes to confirm

8.2. Using Init Button

Turn on server and wait until you can see it on control center, press the initial button over 10 sec. Server will automatically shutdown and restart, this process will take about 1 and half min , after restart server will back to factory default.

8.3. Default Parameters List

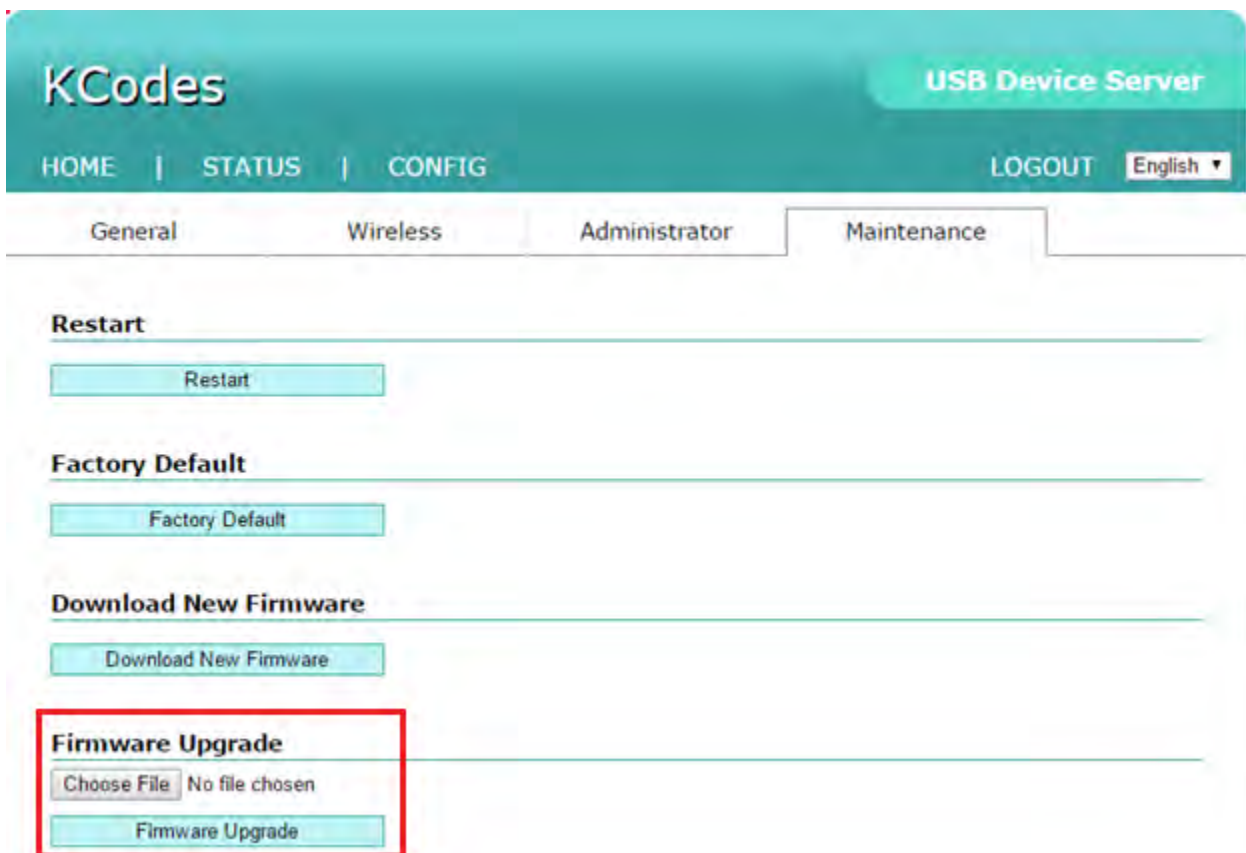
- ✓ General Information
 - **Server Name: KC601 (for 601) or KC601n (for 601n) or KC604 (for 604) or KC604n (for 604n)**
- ✓ TCP/IP
 - **Automatically get IP by DHCP: Enabled**
 - **Static IP: Disabled**
 - **- IP Address: 192.168.1.100**
 - **- Subnet Mask: 255.255.255.0**
- ✓ User Accounts
 - **Administrator: admin**
 - **Password: admin**

Chapter 9 Upgrade Firmware

This chapter describes how to upgrade firmware. Please follow the following Procedures:

9.1 Using the Control Center

1. Open Control Center. It will automatically search the existing Servers and display their statuses.
2. Select the Server that you want to upgrade the firmware. Double click the selected Server to get the server's main web page.
3. Click CONFIG icon.
4. Login the Server with Administrator (default: admin) and Password (default: admin).
5. Click Maintenance.
6. Click Upgrade Firmware.



7. Click Browse button to choose the file of new firmware.
8. Click Upload button to start firmware upgrade.
9. The server will reboot.

Chapter 10 The Init Button

The Init button is used for maintenance: Simultaneously press Init button and turn on (by plugging in the power adaptor) the Server will reboot. (For 601/601n, only USB LED indicator will blink.) After that, the Server will do the following tasks:

- ✓ Perform a Factory Default restoration of the server, which will restore most of the parameters and settings to factory default values.

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

FCC Statement

Federal Communication Commission Interference Statement

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

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

For MPE Statement – Mobile device

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.