IP USB Sharing Station
(USB Server)

User Manual

REV: 1.3

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Introduction

The revolutionary USB Server utilizes technologies that streamlines and enhances functionalities between USB devices and multiple PCs. Current solutions from other companies provide minimum functionalities at high costs. They use significant amounts of resources and effort to achieve the required features, whereas the USB Server utilizes significantly less resources for more features. Most solutions allow printer-only peripheral devices. However, USB Server allows you to use a multifunction combo device such as a Multiple Function Printers. Another added benefit is that you can connect multiple printers/scanners/faxes to the USB Server through a USB Hub. These are just some of the features that make our product one of the standards today. The USB Server application provides a user friendly interface between you and the USB Server, enabling you to monitor, manage and use the convenient and powerful functions provided by USB Server.

Features

- Centralized remote USB Server Management
- Centralized remote USB Server Status Monitoring
- Centralized remote USB Device Management
- Centralized remote USB Device Status Monitoring

Installation

To install the USB Server program, please double click the USB Server setup file.
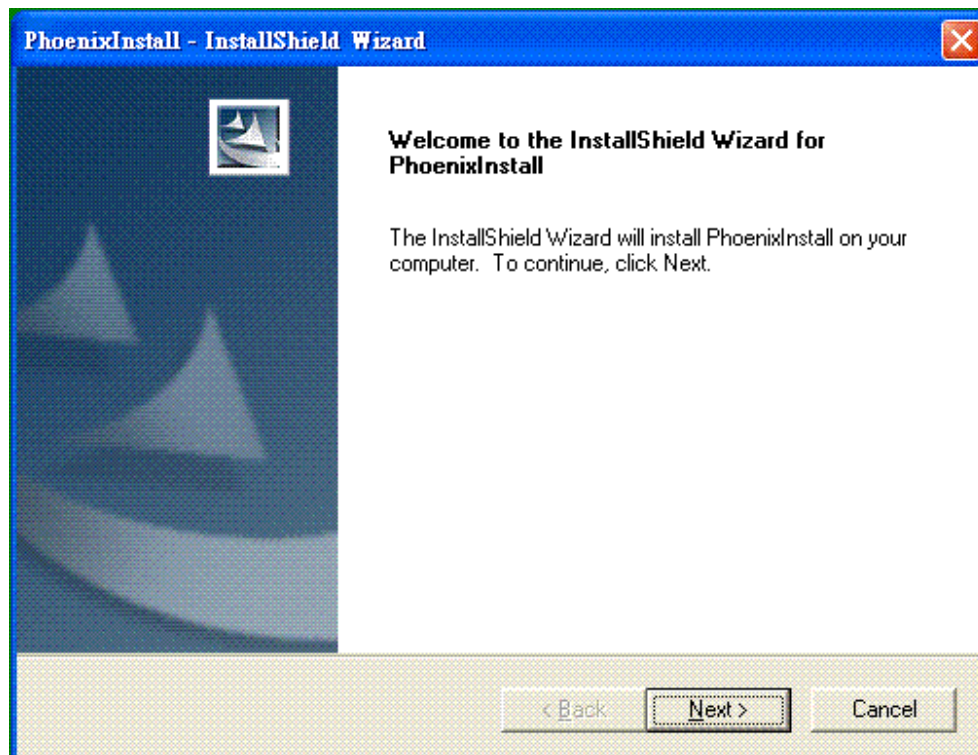
Then please follow the instructions of the wizard to complete the installation process.

Please reboot the system as requested by the installer when the process ends, otherwise the software might not work properly.

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Running Program

To start the USB Server program, please double click the shortcut icon of the USB Server on the Desktop.
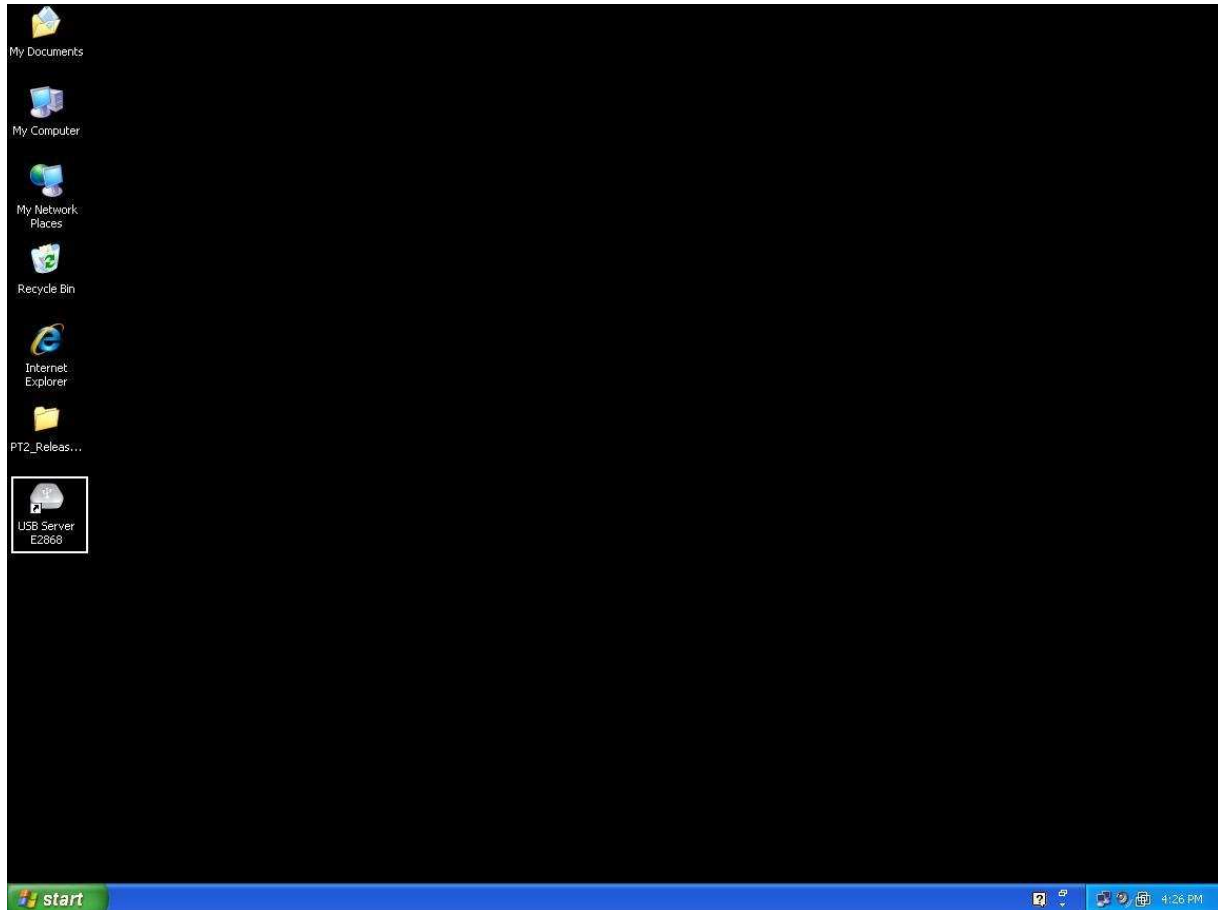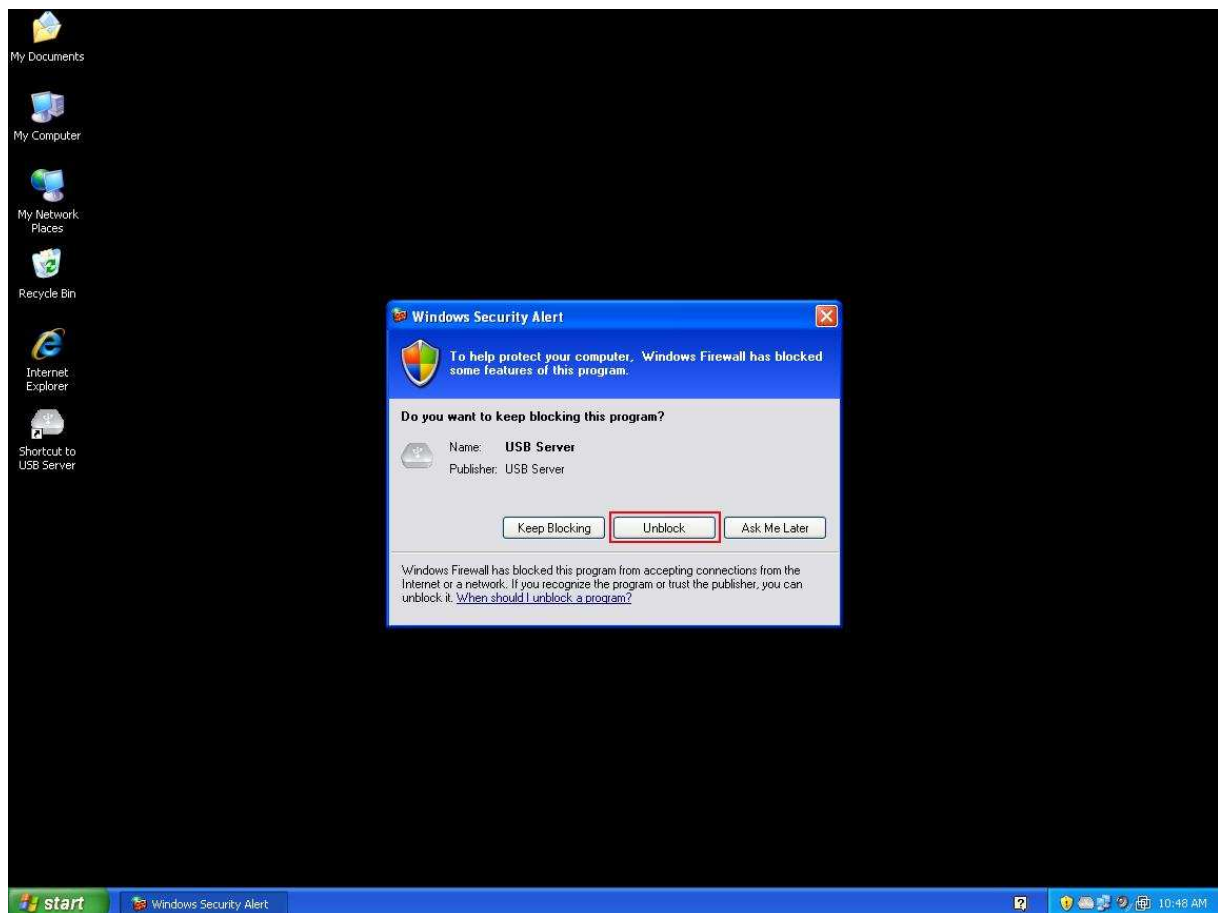

This would bring up the main dialog box.

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System Firewall

When you start the program for the time, your Windows OS will prompt you for Firewall Access. Please make sure you unblock the software or grant it access, otherwise the program will not work correctly.

Windows XP Firewall Access Alert
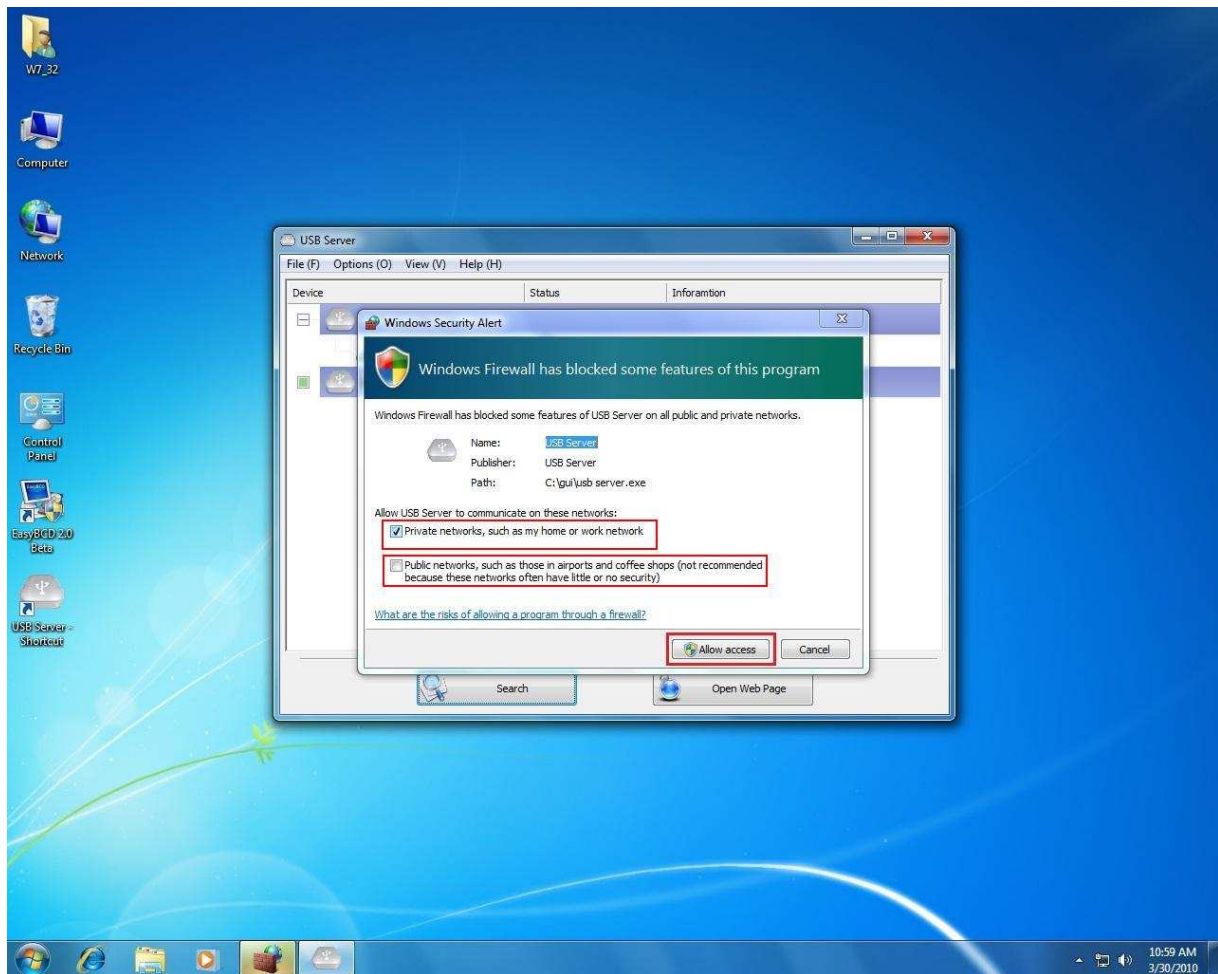

Please make sure you "Unblock" the program.

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Windows Vista Firewall Alert
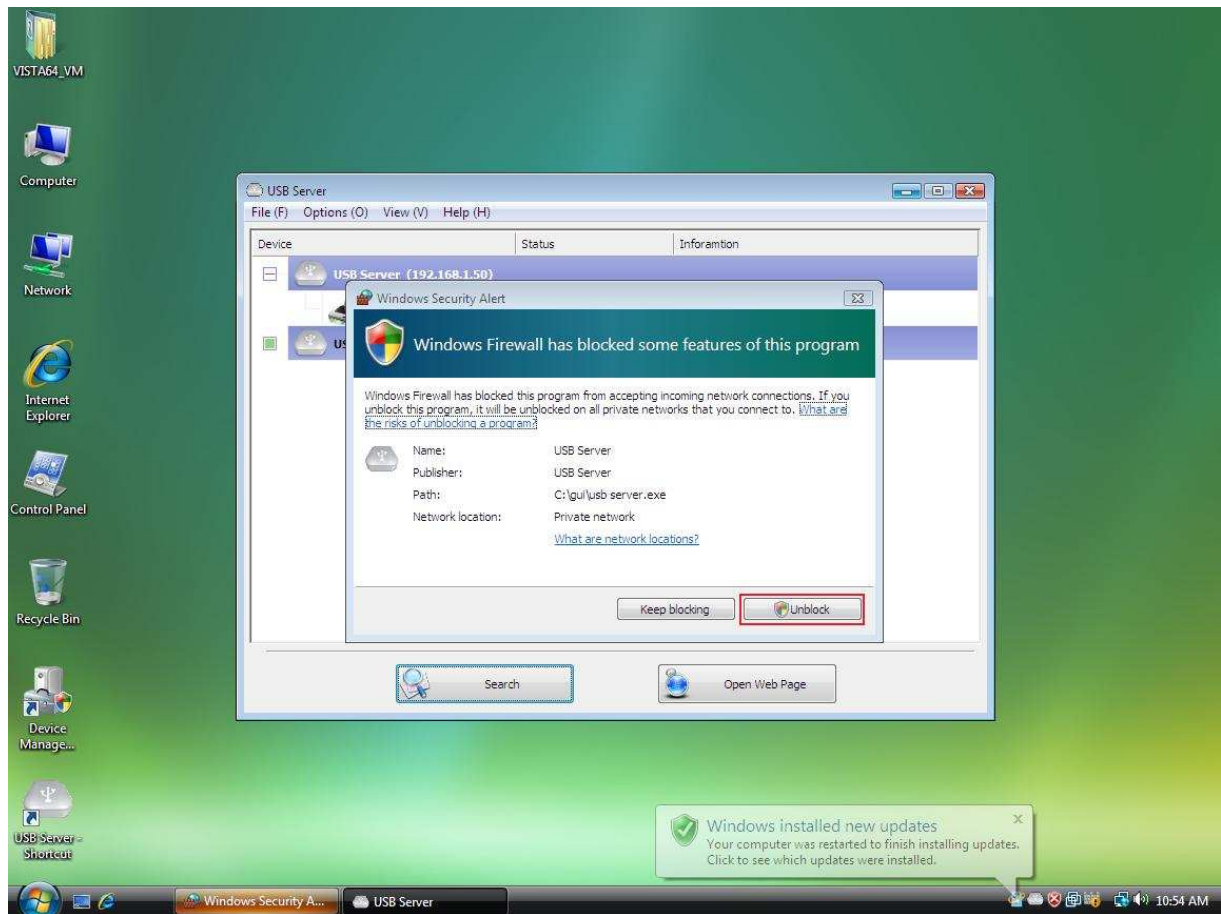
If your system is running Windows Vista, please make sure you "Unblock" the program.

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Windows 7 Firewall Alert

If your system is running Windows 7, please make sure you check both of the network options and then click on "Allow access" when you see this alert.

Once you have done this once, the system will remember your setting and will not prompt you again next time you run the software.

WARNING: Failing to provide USB Server software with access through system firewall will cause malfunction in the program.

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Main Dialog Box

Once you have start up the program and grant it access through the firewall, you will see this main dialog box.
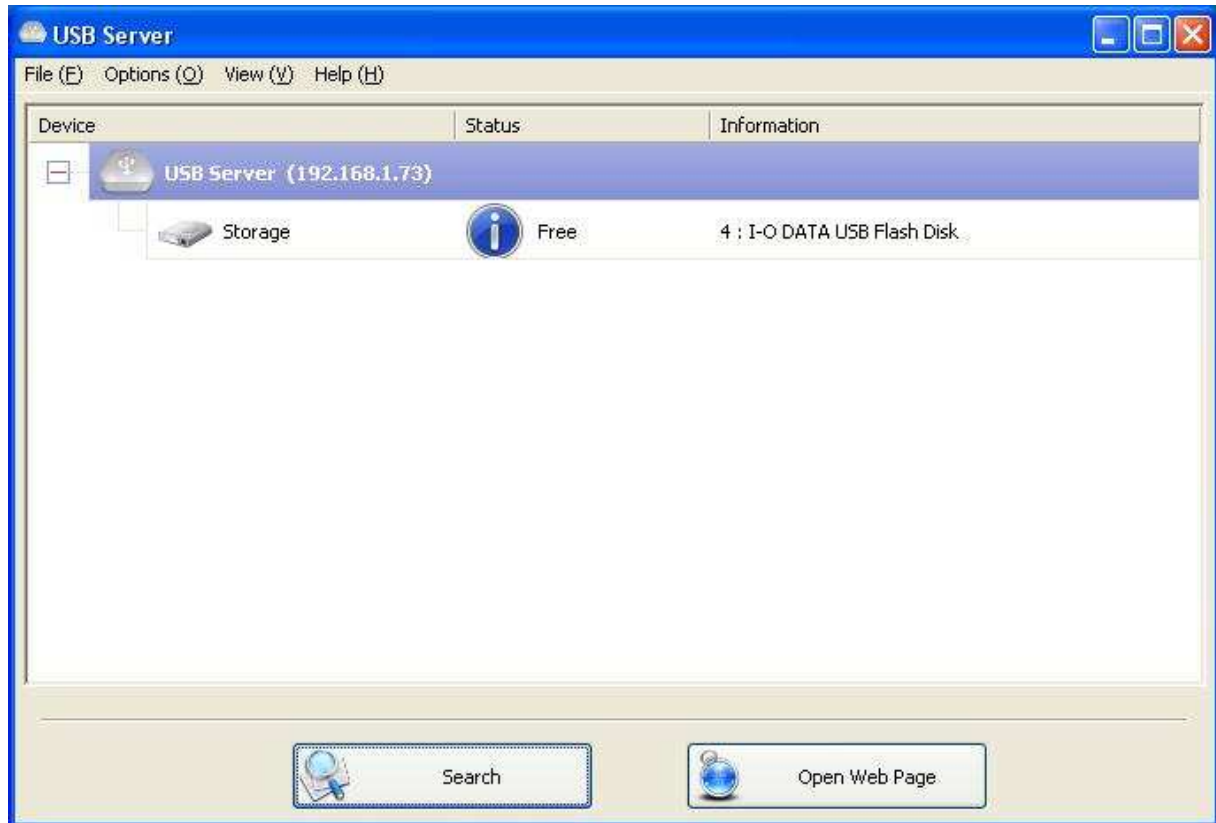

The main dialog box is consisted of a **Control Menu** (File, Options, View and Help), a tree view in the middle that displays a list of all the server and devices discovered on the network, a **Search** button to get the current status of all USB Servers and devices, and a button that toggles between **Open Web Page** and **Connect Device** depending on the node you select on the tree view. The **Open Web Page** button toggles to **Connect Device** when a device is highlighted.

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Status of USB Servers and Devices

The tree view also tells you the status of all the USB Servers and devices that are discovered on the network. An inaccessible USB Servers might or might now show up on the list. It is either disconnected from the network, powered off or suffering from other technical difficulties.
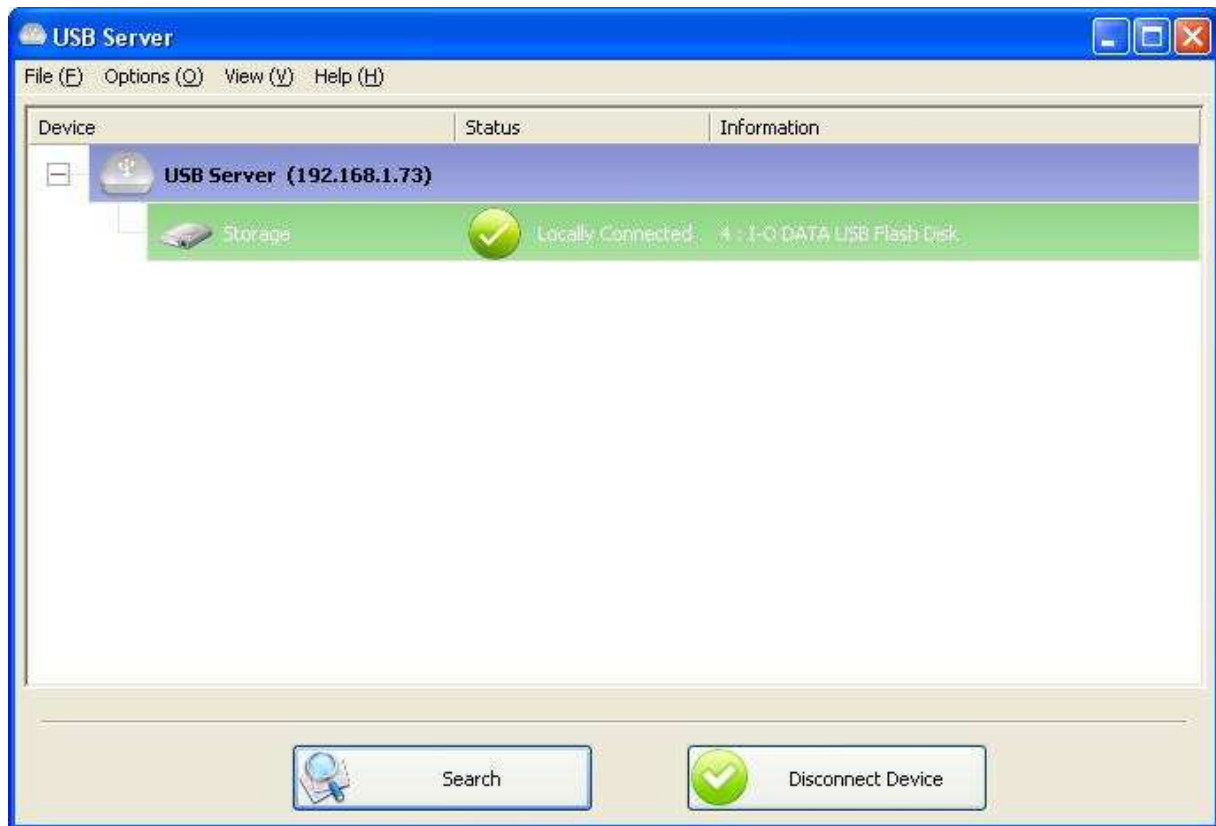The device might be in one of the following states and there are different things you can do with it in each of the states. Each status is represented by a specific icon.

Device Free
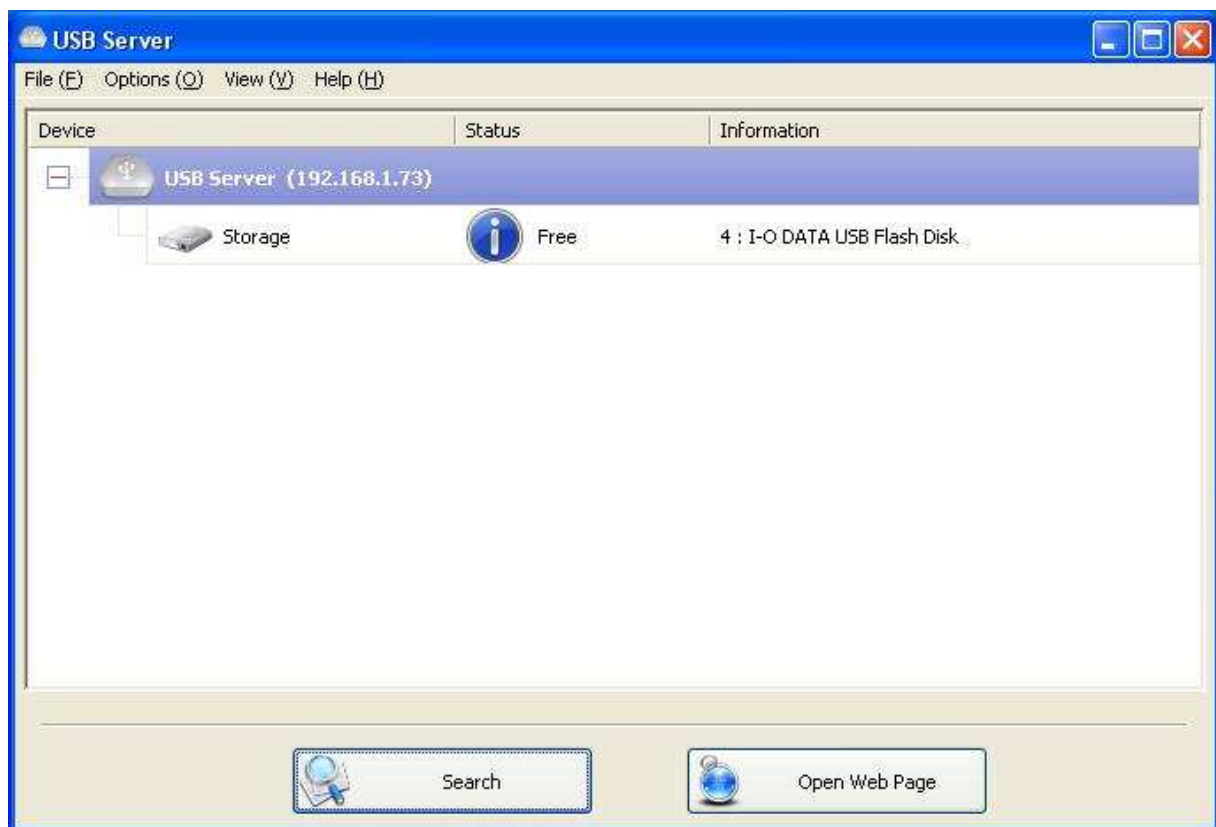
A device with **Device Free** status is unoccupied and ready to be connected.

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Occupied by Yourself

When the device has been occupied, the icon and Status change to indicate so.

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Occupied By Other User

This status icon indicates the device is occupied by another user on your network and you can not connect to that device at the moment.

Device on Different Segment

This icon with question mark indicates that the server's IP address is on a different network segment from your PC. You can NOT connect to a device attached to such server. Please check your network settings. However you can still change its network settings.

Unsupported Device

Some of the devices are not supported by USB server. Such device will be identified by a stop sign icon as shown. Of course, connecting to an unsupported device is not allowed.

Accessing a Device

To connect to a USB device, please select it on the tree view and click on **Connect Device** button or double-click on it. This process might take a few seconds up to a minute, depending on the complexity of the device. **Then you can operate a connected USB device as if it is connected to your PC's USB port directly.**

If you select a connected device on the UI, you can see that the **Connect Device** button is changed to **Disconnect Device**:
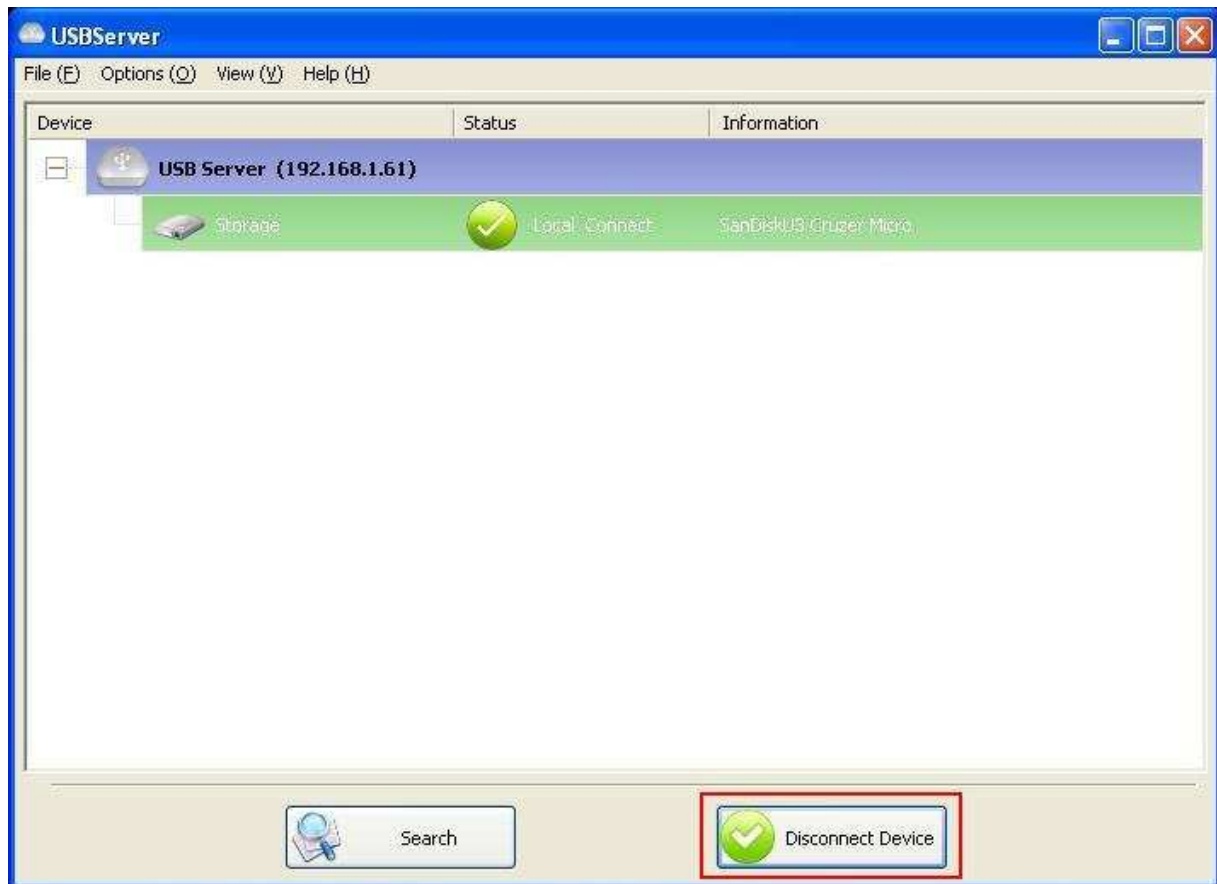
Clicking on this button releases the selected device for other users. Once you see the icon turns back, the device has been disconnected and other users will then be able to connect to it.

This operation is exactly like when you unplug a USB device from your PC's USB port.

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Server Configuration
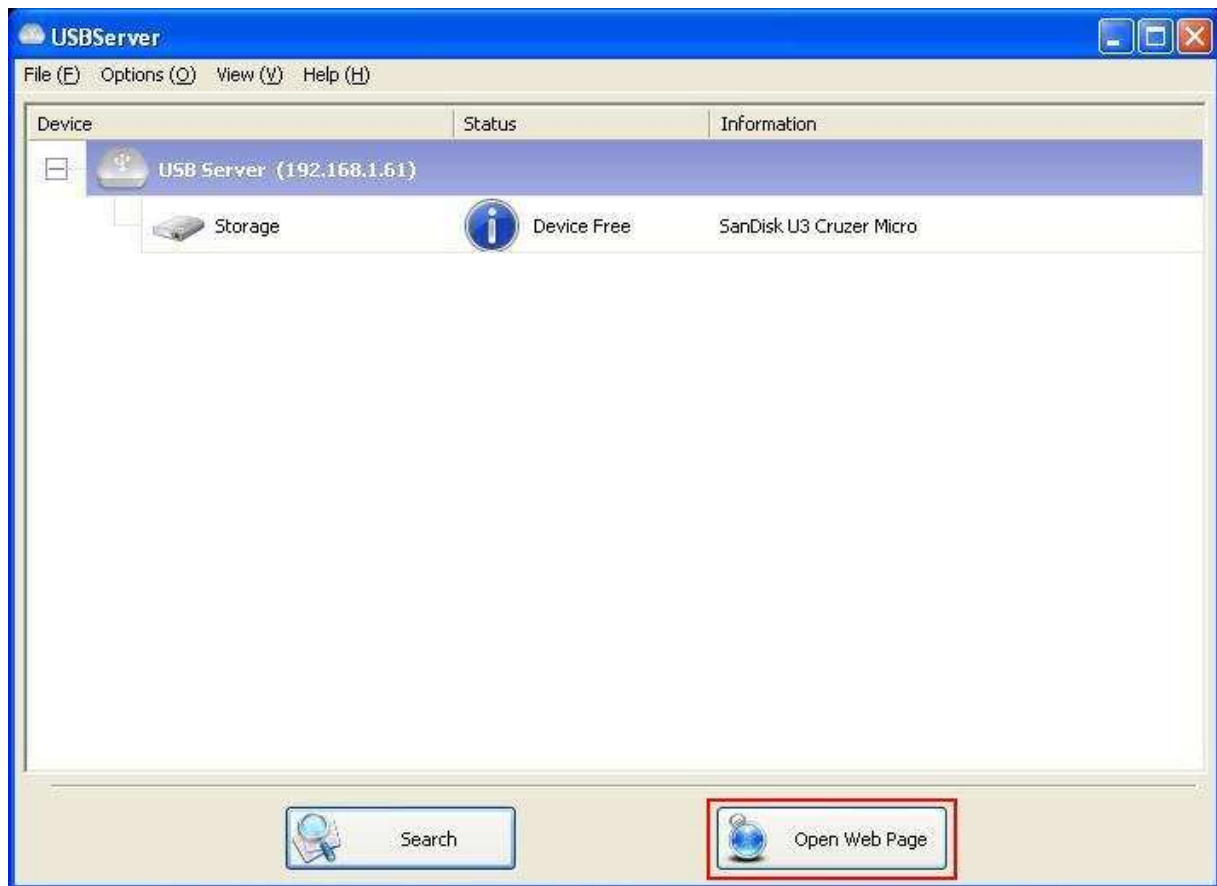
We allow the users to configure the settings of the USB Servers via the web-based UI. Select the target server on the tree view and then click on the **Open Web Page** button or the same option on the right-click menu of server icon, to bring up the web-based configuration UI.

Configuration with Web-based UI

Your default web browser will pop up and take you into the web-based UI of the server.
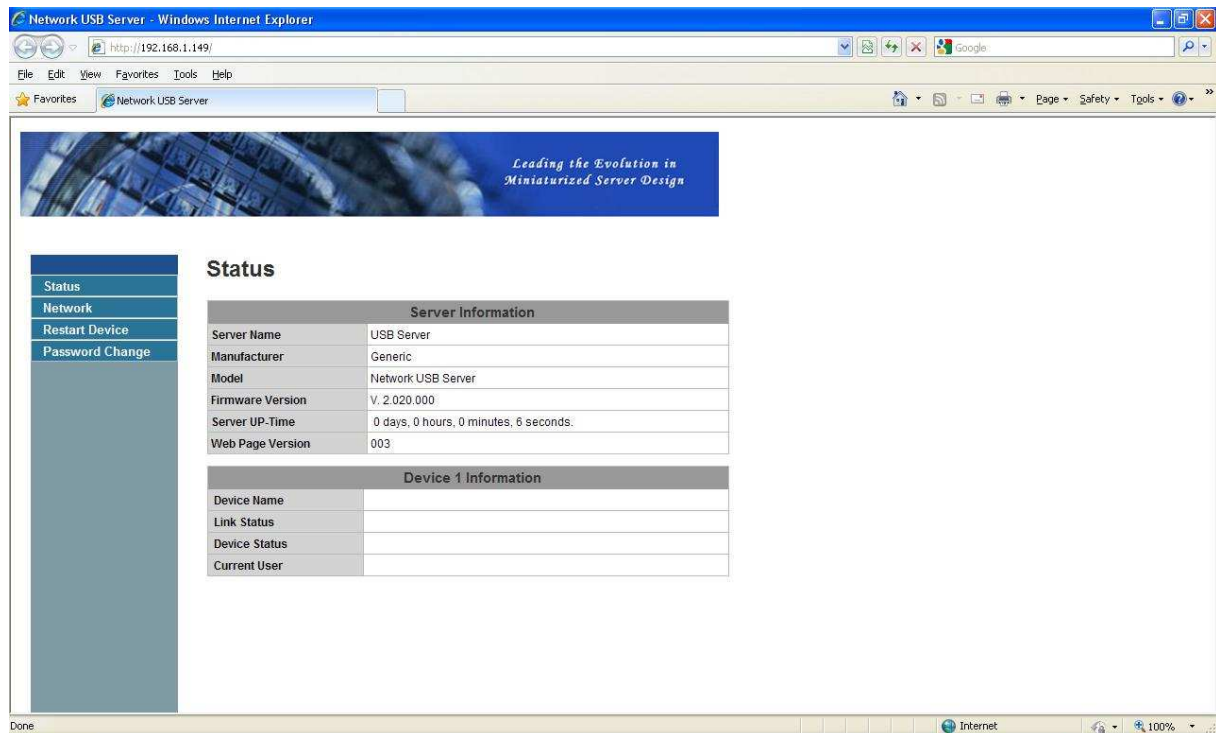
This is the main page. You can see the important information about the USB Server and the device(s) connected to it. The 4 links at the left-hand side take you to different pages with other information about this server or functions you could perform.
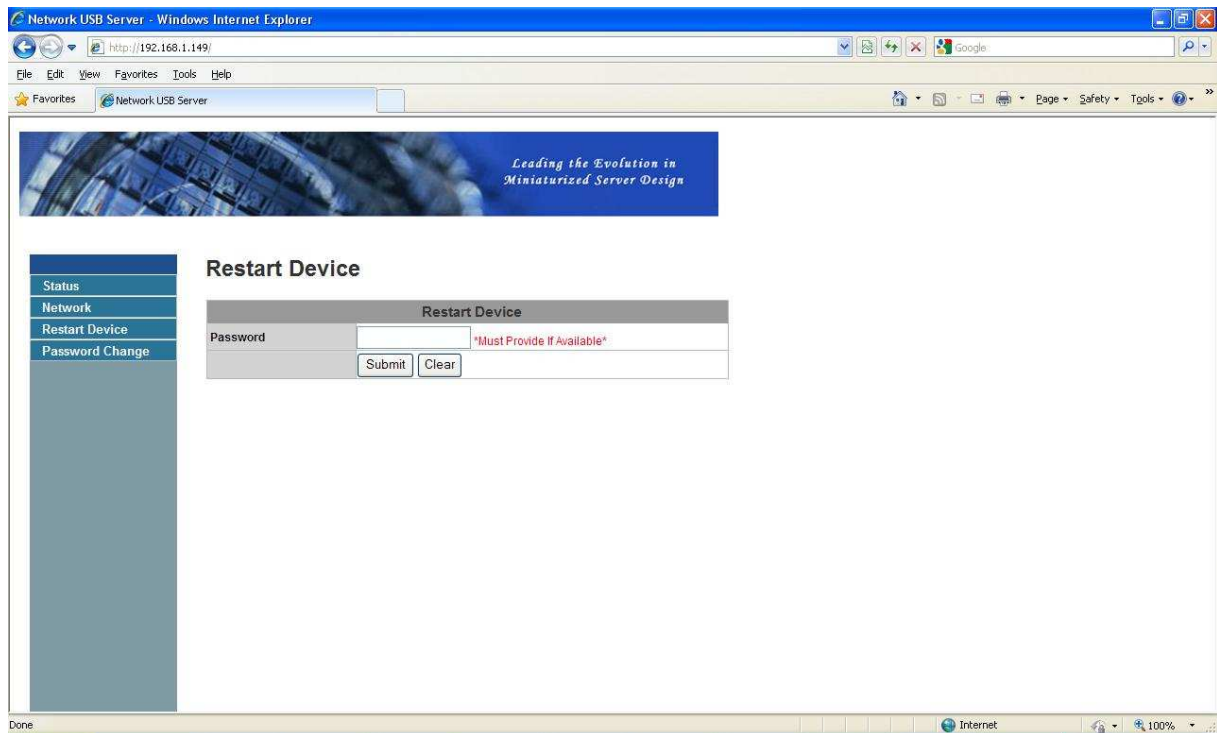
Network Information
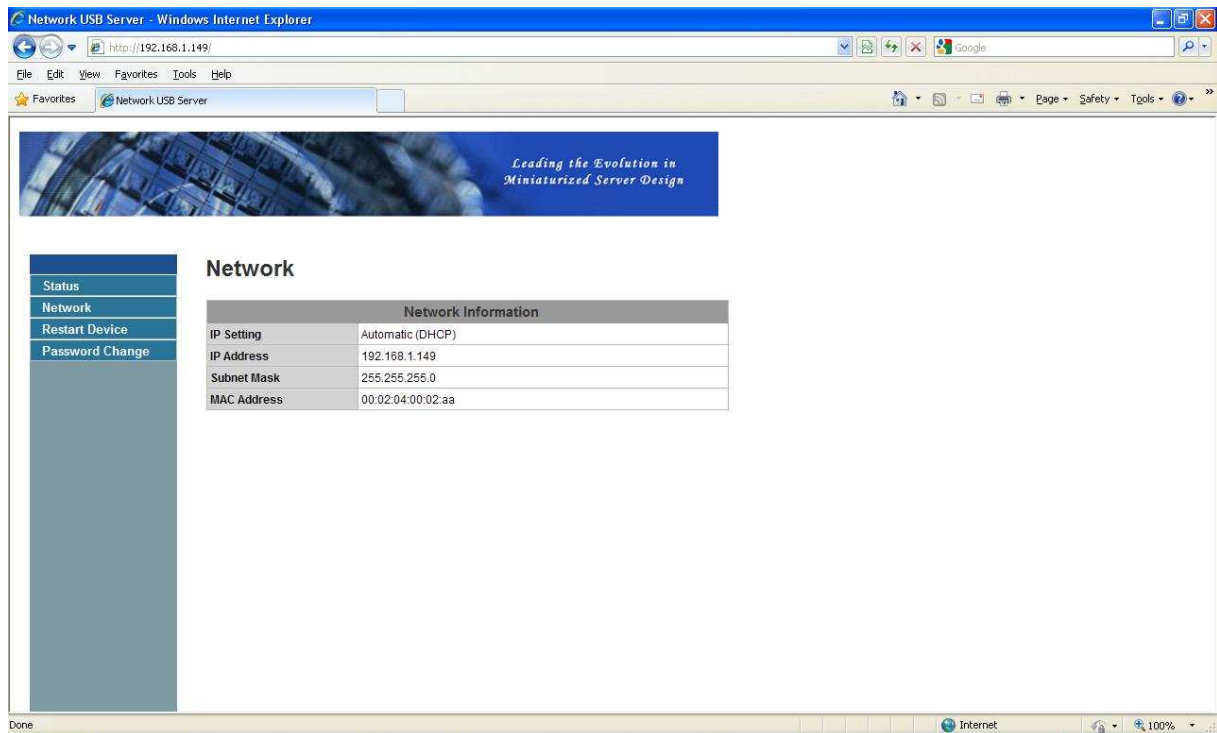
This page displays the current network setting of the server, like the current IP setting and the MAC address.

Server Reset

Clicking on this link takes you the page shown below:

Click on the **Submit** button with the correct password provided will reboot this USB Server. If no password has been set, then simply click on **Submit** button to perform this function.

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Change Password

Clicking on this link takes you to the password update page below:

To change the password, you must enter current password, enter new password and enter it again for confirmation, and then click on **Submit** to set the new Password. If you are setting the password for the first time, you don't have to provide current password.

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Configuration with the Utility

Another way to configure the server is via the configuration dialog of USB Server. To bring up the configuration dialog, please RIGHT-CLICK on the server icon to bring up this menu, and select **Server Configurations**

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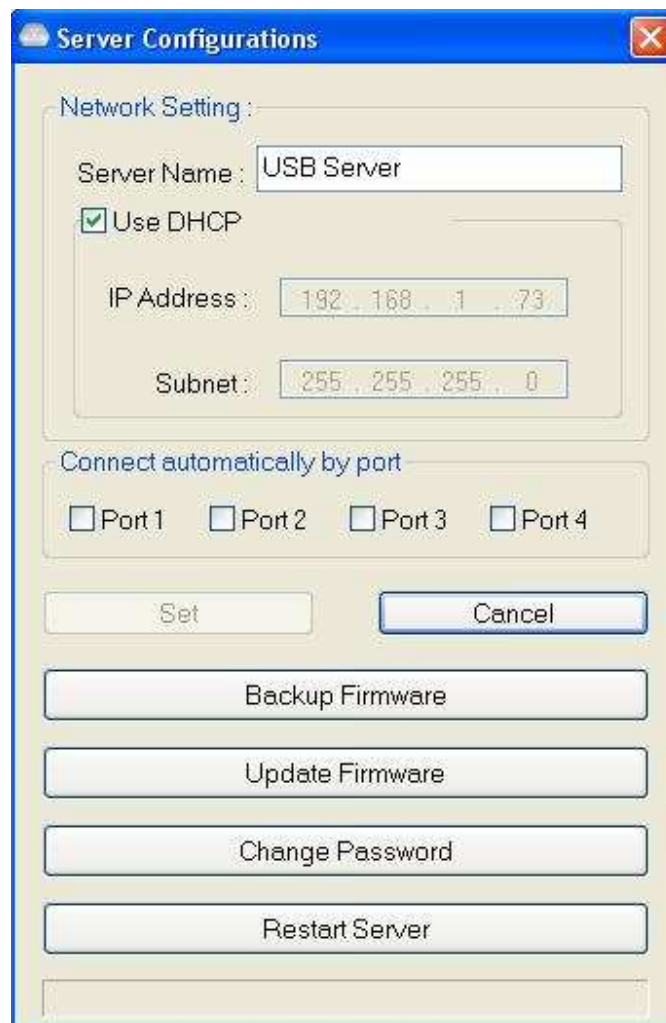
You might be prompted to enter password if a password has been set. If not, you will immediately see the above dialog.

Sever Name: This field allows you change the Server name. Change it whatever you want.
USE DHCP: When this field is checked, your server acquires IP address automatically. Uncheck it and you can enter IP address automatically.

NOTE: You can apply this function to a server under different network segment. HOWEVER, some router/switch hub does not allow communication between servers under different segment. In this case, you won't even see the server on a different network segment.

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Connect Automatically By Port: This is a new function that, when enabled, any USB device plugged into the enabled port will be connected automatically. Please see **Featured Functions** chapter for a detailed description of this function.

Backup Firmware: this function is a fail-save mechanism for the Update Firmware function. Just browse to where you want to save the backup file and click on **Save** to save the file.

Update Firmware: update firmware with this function. Use the **Browse** button to choose the firmware to update. Click on **Open** to start.

Change Password: Simply enter the new password and enter it again for confirmation. Click on **Submit** to change.
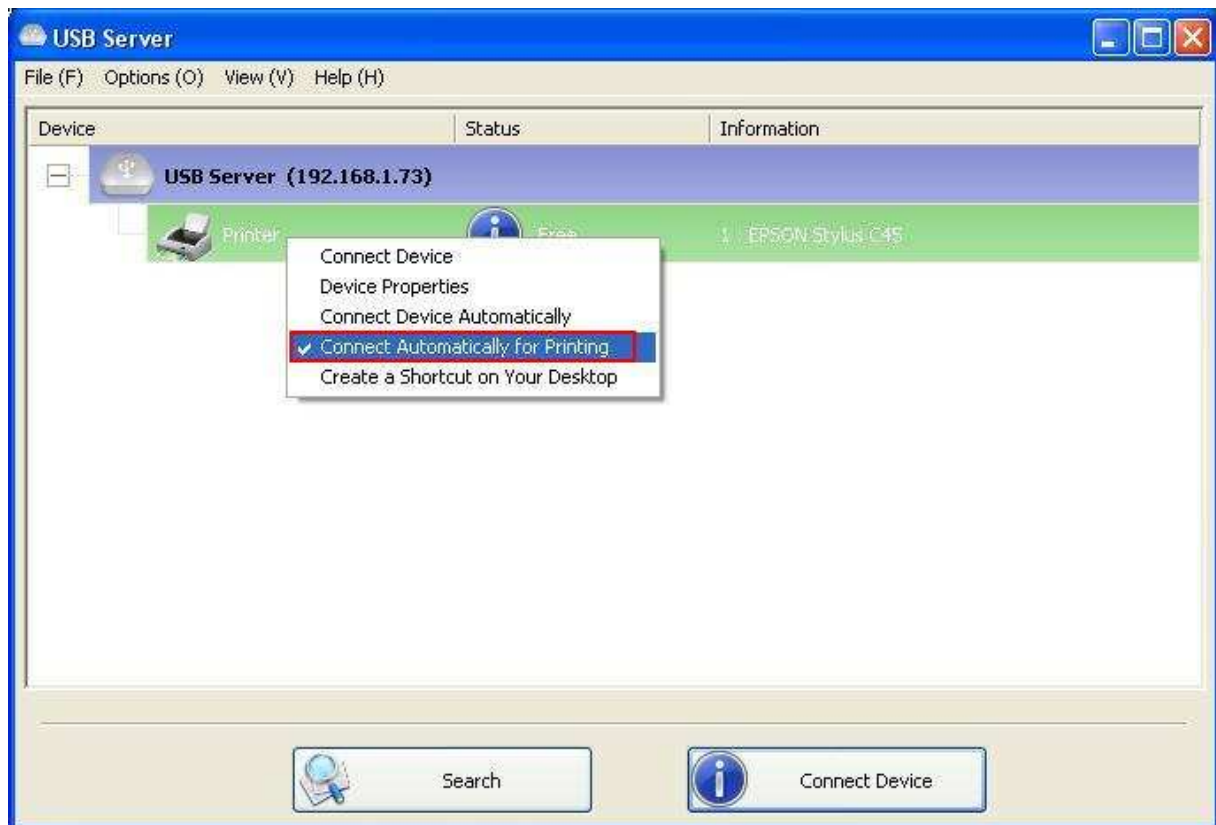
Restart Server

This button reboots the server. Please note that this function will not work if the server you attempt to reset has a device connected to it and the device is occupied by a user.

Featured Functions

Connect Automatically for Printing

This is another one of our very convenient functions.

What this function does it that when you send a printing task to this printer, it detects this printing task and AUTOMATICALLY connect this printer to print out the document. When the printing task is done, the printer will then be AUTOMATICALLY disconnected so that other users can use it. The user no longer has to manually connect and disconnect the printer.

**NOTE: This function will be enabled for printers or MFPs that has been installed and used on your PC. For a new printer/MFP, please make sure you have installed it (has been connected via USB port or via USB Server software and worked correctly) on your PC first.**

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Automatic Connection

There two ways to automatically connects USB devices: automatic connection by device and automatic connection by USB port.

Automatic Connection by Device
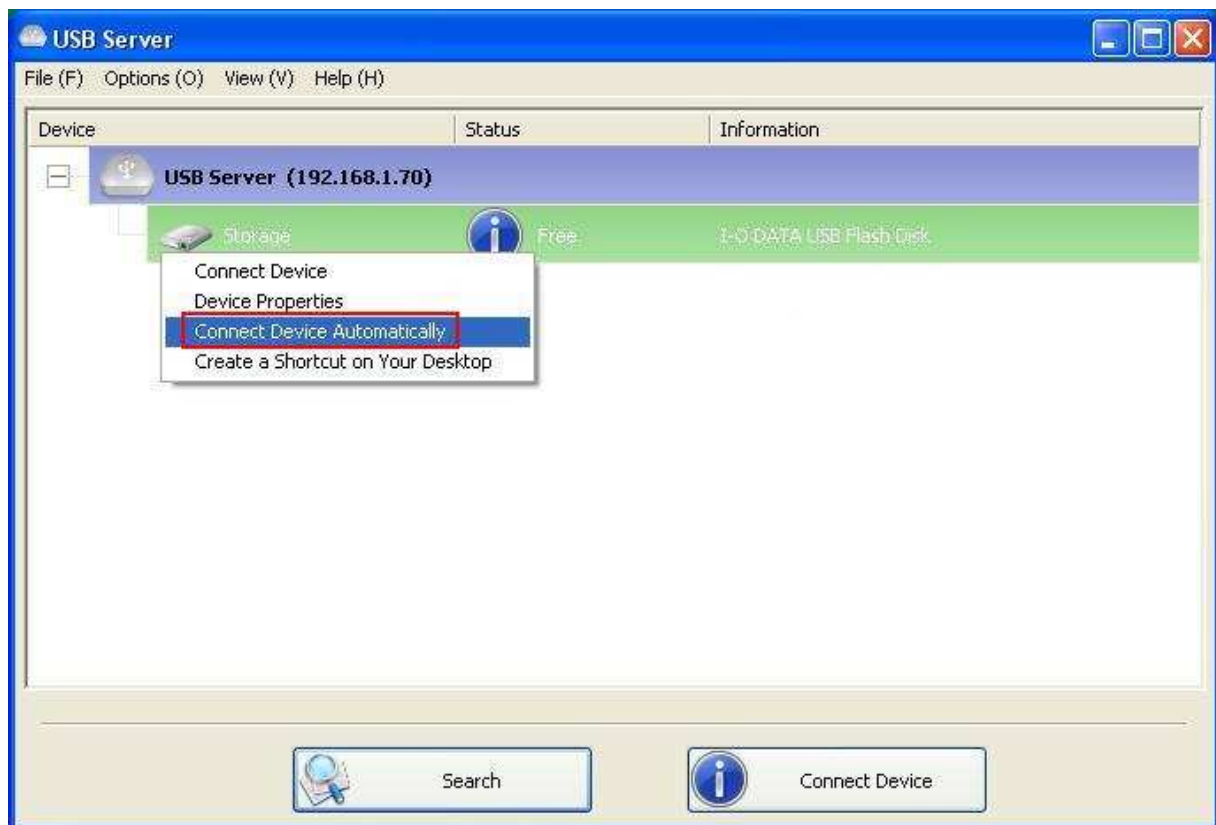
Once enabled, THIS PARTICULAR DEVICE will be automatically connected when:
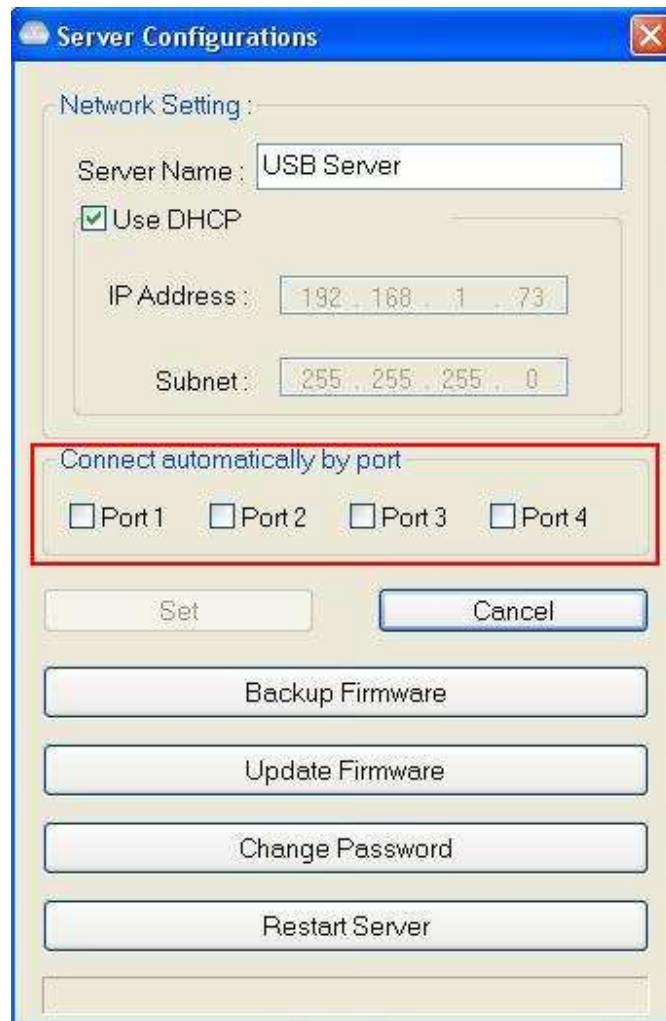
1. The software starts up and the device is online and Free.
2. The software is running and the device comes online.
3. The software is running and the device status changes to Free from any other type of status.

HOWEVER, if the user manually disconnects the device, it will NOT be automatically connected again until the software has been restarted.

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Automatic Connection by USB Port

When this function is enabled for the port, the USB devices will be automatically connected when:

1. The device is plugged into the port when the software is running.
2. The device is plugged into the port and is Free when the software starts up.
3. The device is plugged into the port and the status changes to Free from any other status when the software is running.

Also, like automatic connection by device function, if the user disconnects the device manually, it will NOT be automatically connected again until the software has been restarted.

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Create a Shortcut on Your Desktop
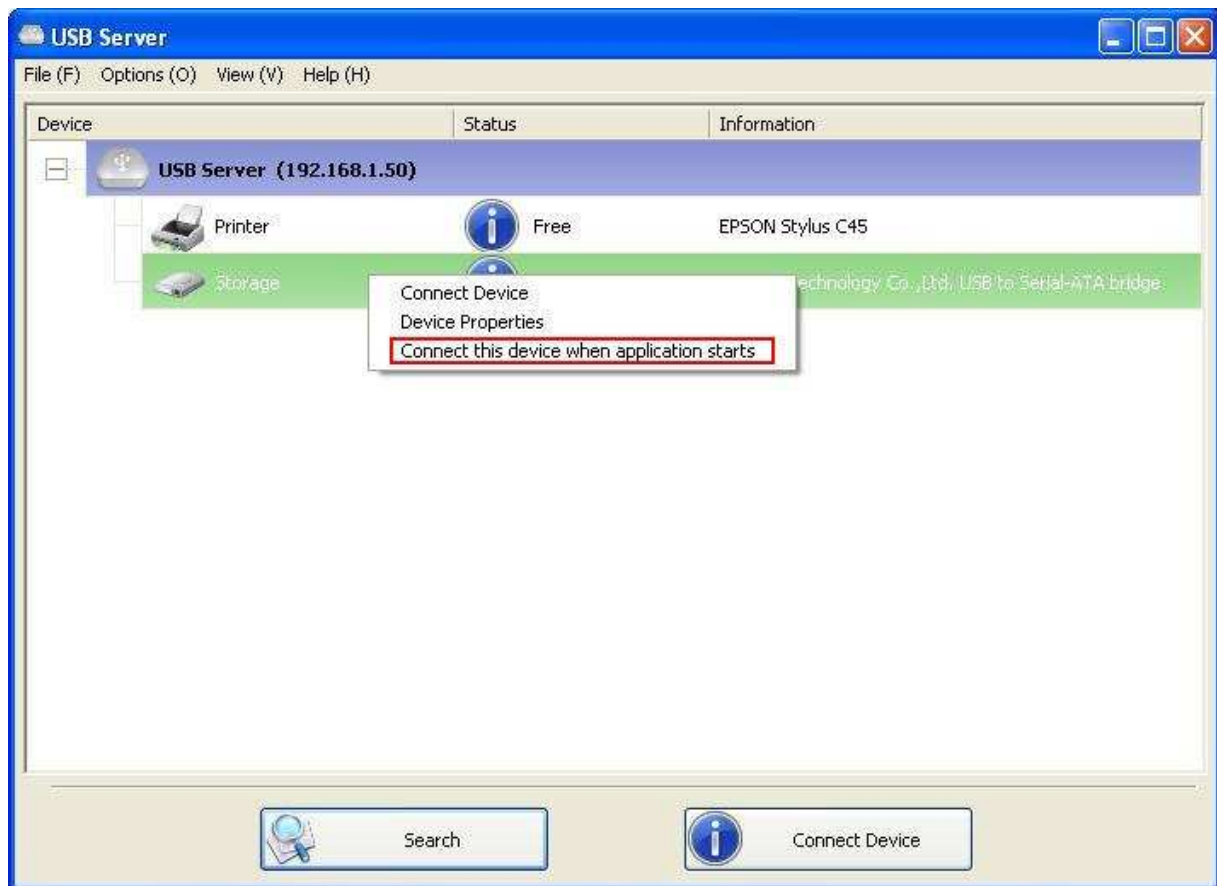
This function creates a shortcut on your Desktop that, when double clicked, starts up an application and connects a targeted device at the same time. This function is particularly useful when the functions or one of the functions of the targeted device must work with a specific application, such as a multi-function printer and the photo/picture scanning utility. Normally, if you want to scan with a scanner connected to a USB server, you must first connect the Scanner with the USB Server software, then run the scan software and start scanning. When you finish with scanning you have to close the scan software and then disconnect the scanner so that other user can use it.

However, this shortcut function consolidates these steps into two quick double-click. Let's see a sample use case.

Take this EPSON MFP as an example.
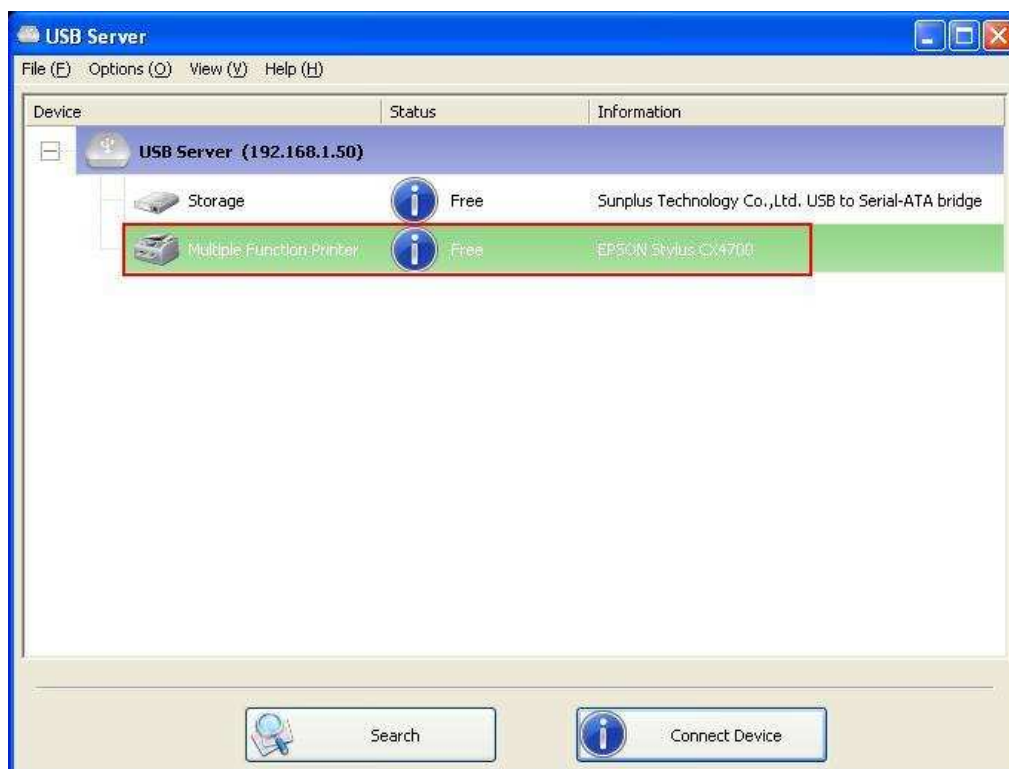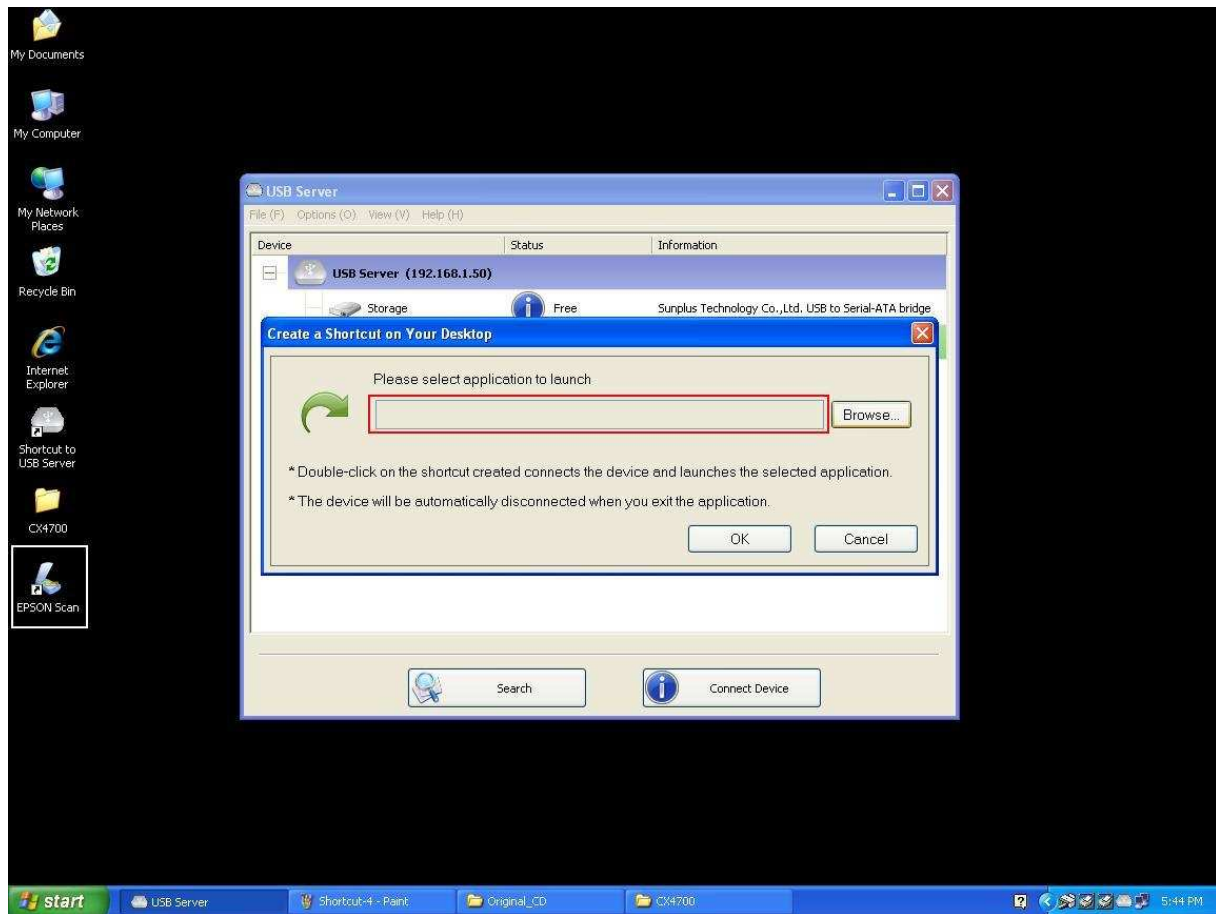

Right click on it and select the "Create a Shortcut on Your Desktop" option.

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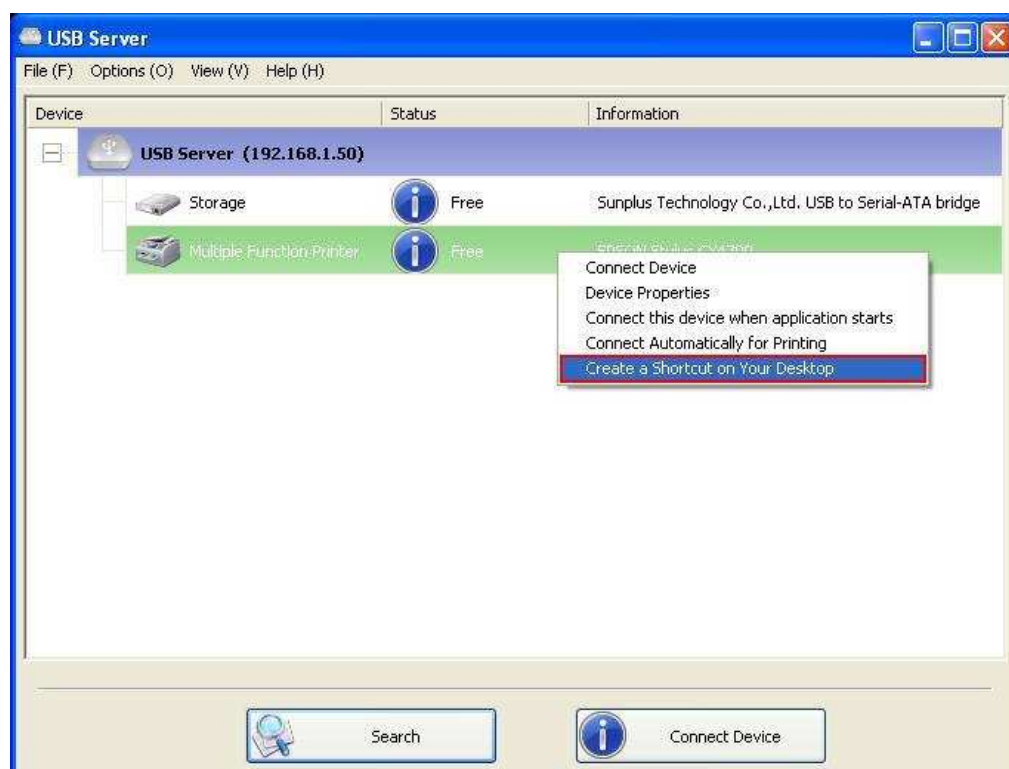
Then you will see this setup dialog pops up.

So, this EPSON MFP comes with a scanning application called EPSON Scan. You can see a shortcut of this EPSON Scan software being placed on your Desktop. Now you can either Drag-and-Drop the EPSON Scan shortcut into the highlighted text filed.

Or you can use the browse button to select the shortcut.
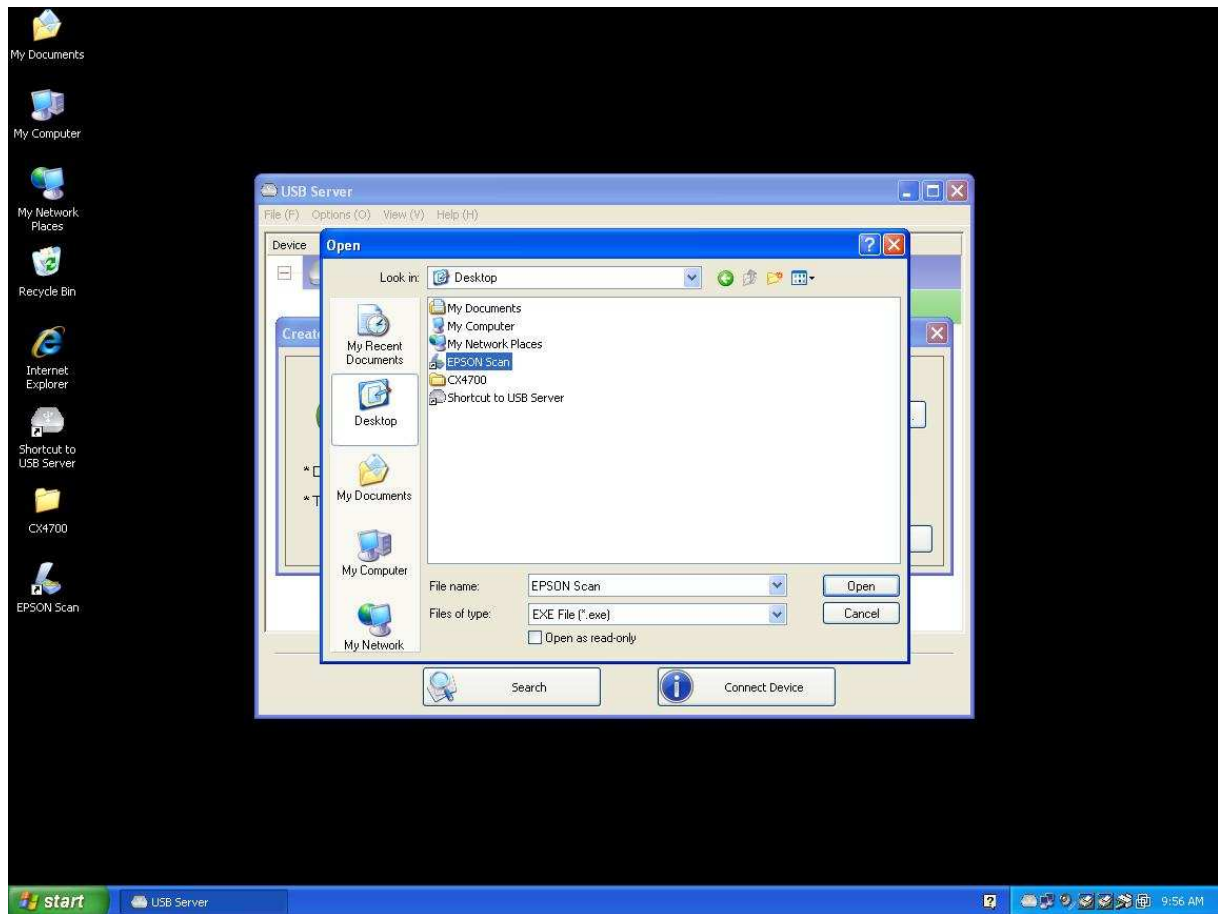
Either way, observe that the program path has been correctly captured and then click on the **OK** button.

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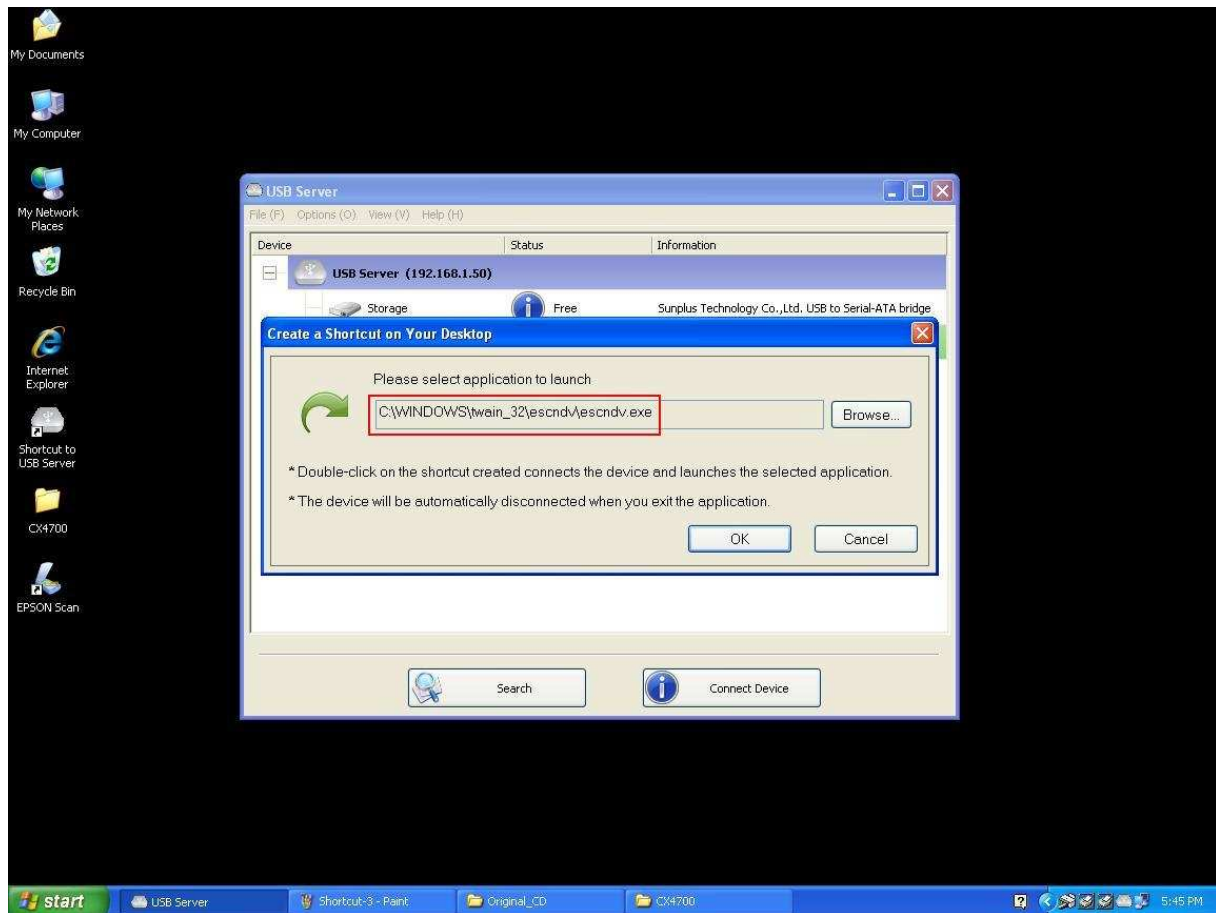
Then you will see a new shortcut being created on the Desktop.
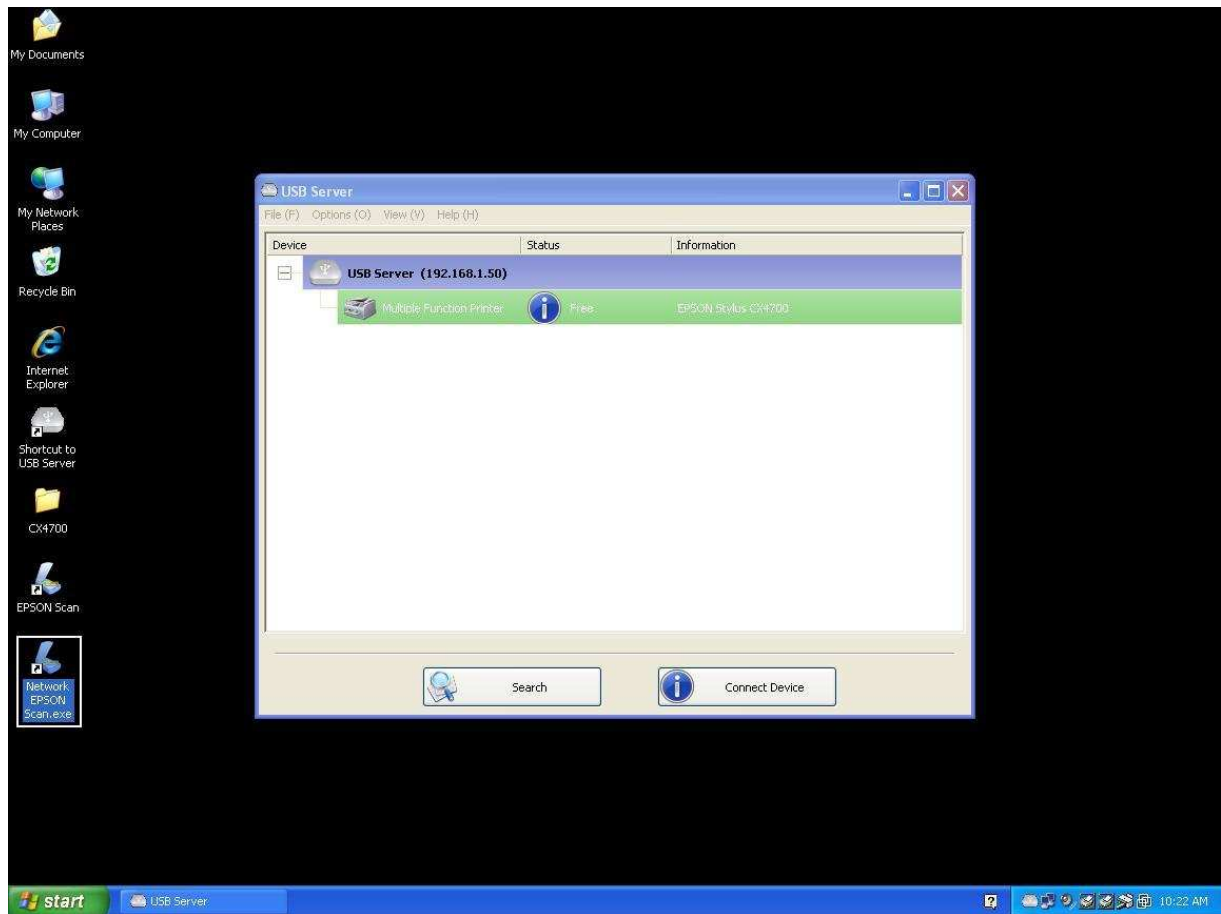
The naming rule of the new shortcut is adding a "Network" prefix to the name of the original shortcut.

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Now, when you double click the new "Network EPSON Scan" shortcut, the software runs and the EPSON MFP gets connected at the same time.
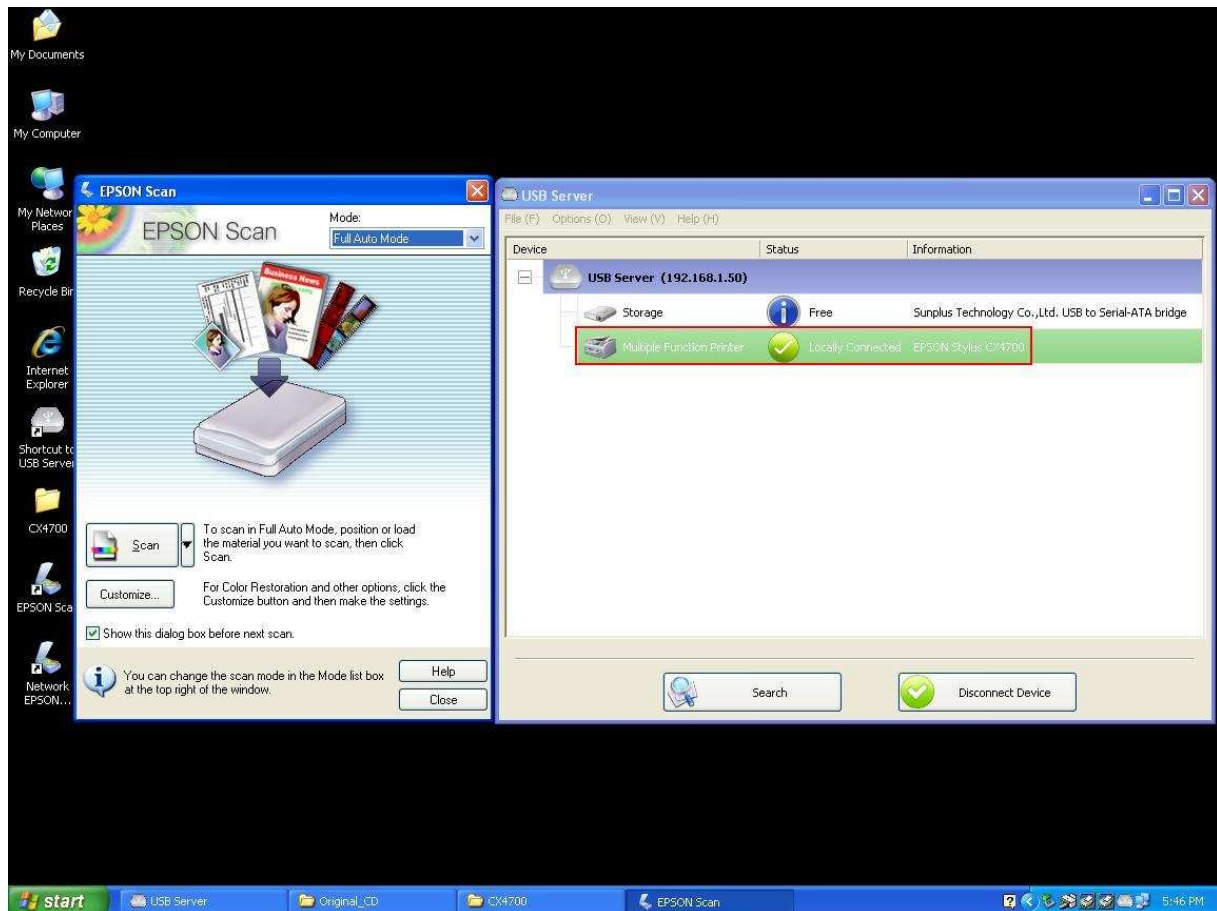
You can then start your scanning task.

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When you are finished, simply close the EPSON Scan utility and the EPSON MFP will be disconnected automatically.
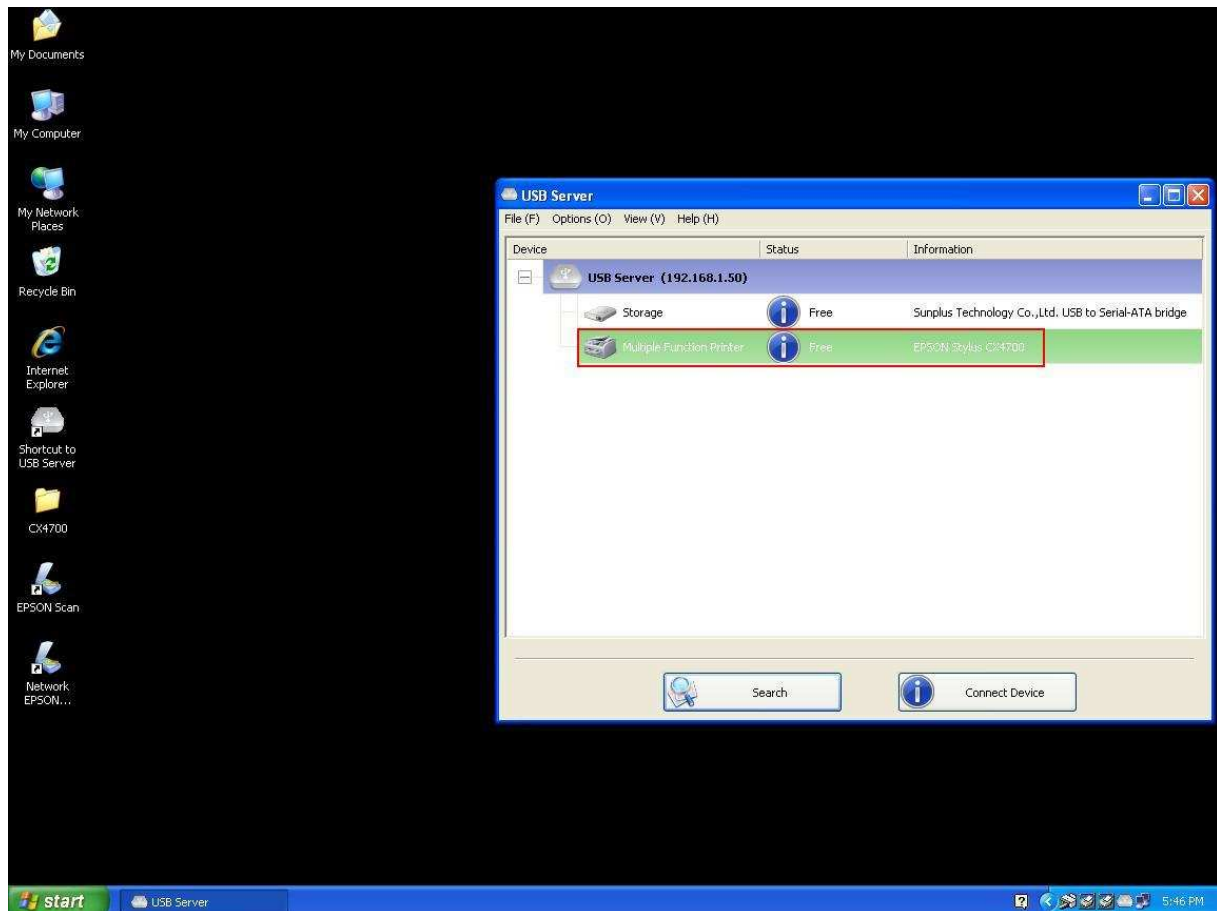
Now you can operate your MFP or Scanner with a shortcut on your Desktop and keep the USB Server software minimized at the system tray.

Auto Disconnect Printer/MFP/Storage Device

These functions are there to prevent the case when one user connected a Printer or Storage device but forget to disconnect when he/she is done with the device.
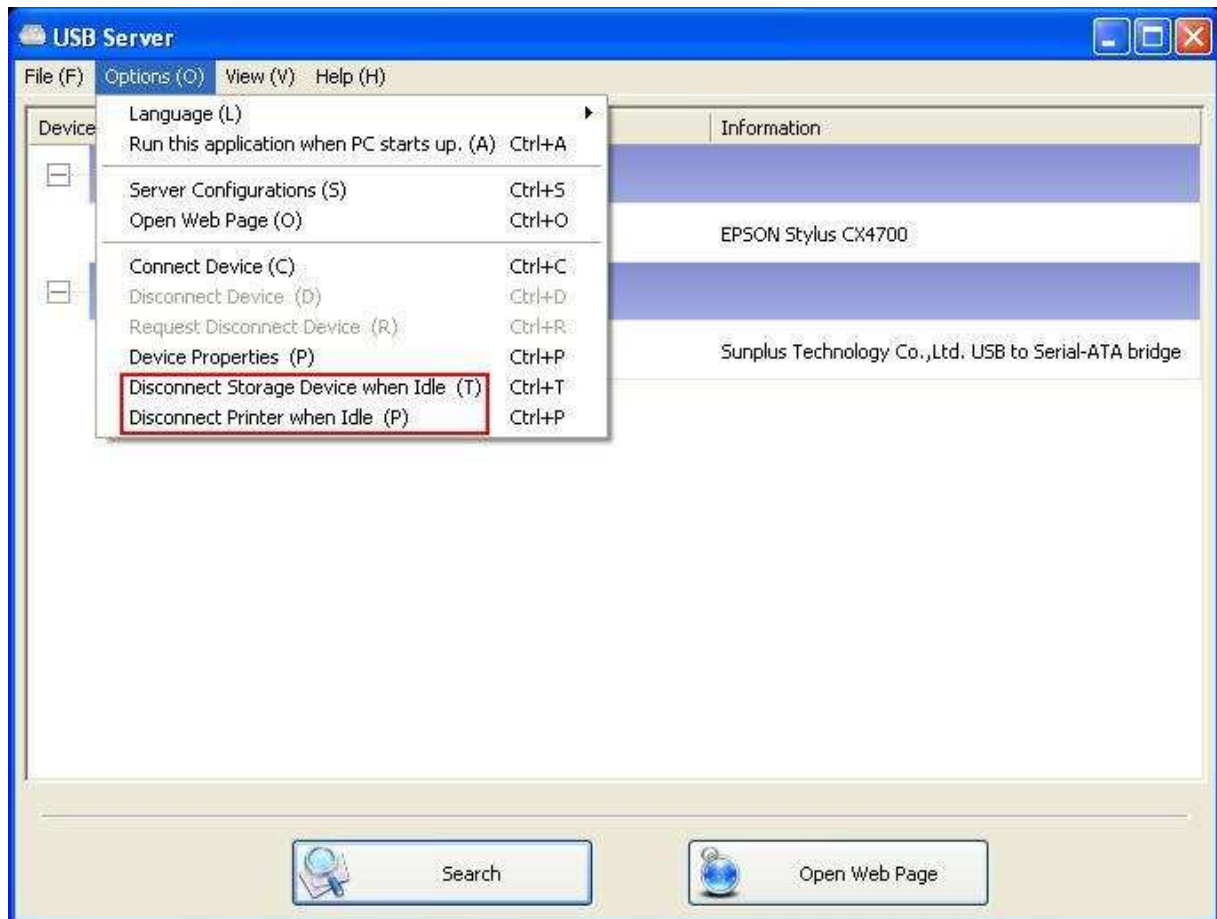
When these two functions are enabled, you will see this message when you connect a Storage device or a printer:
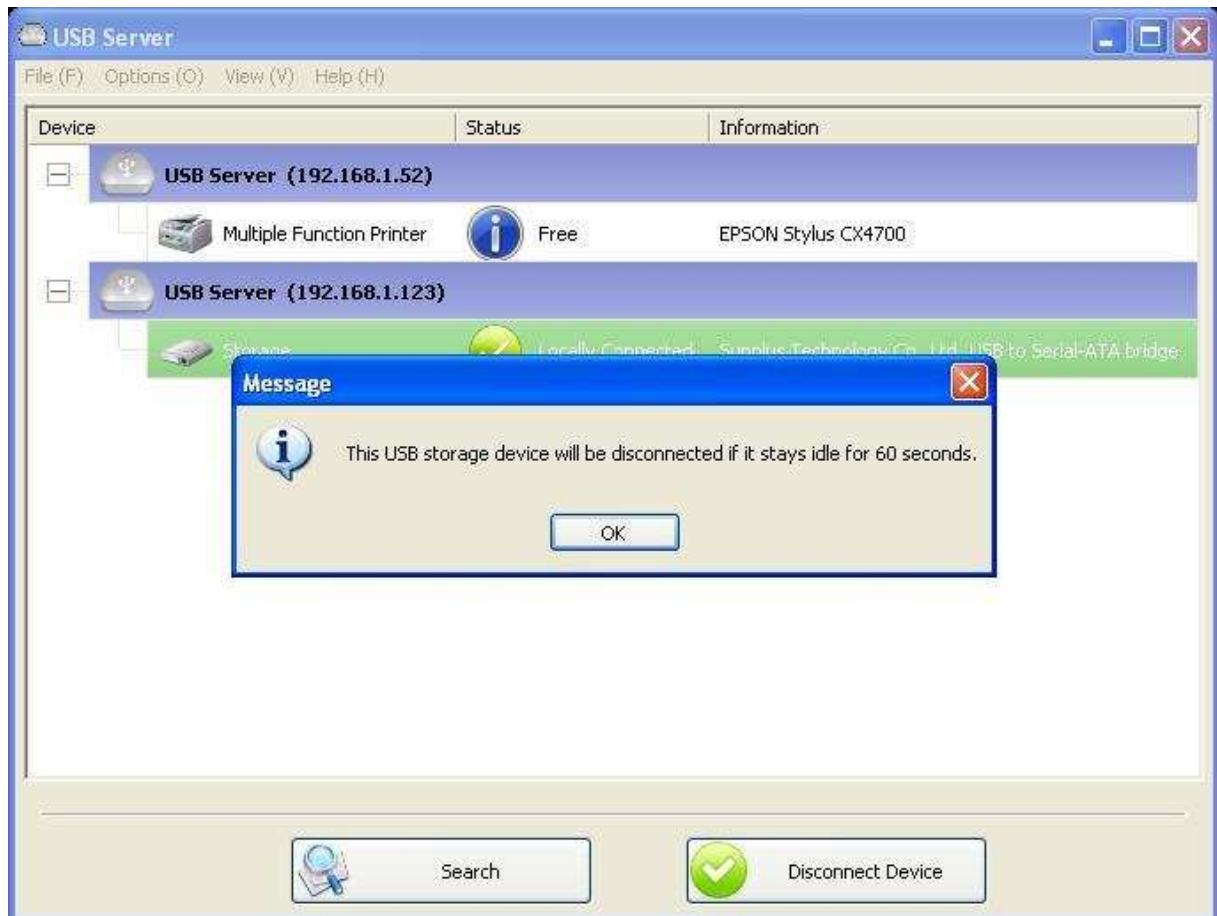
When the Idle time is up and the device has been disconnected, you get another notification:
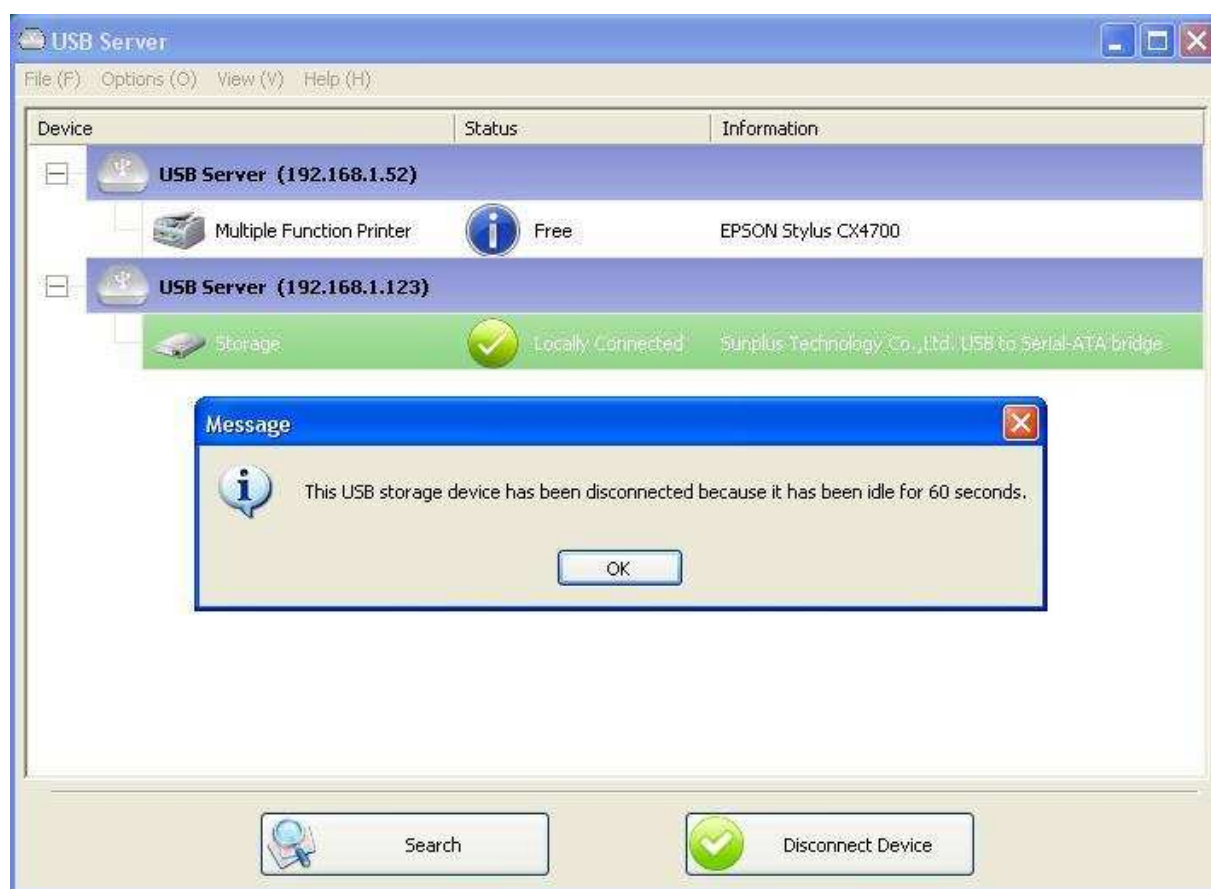
NOTE: This function might not work with Storage device such as pen driver/flash driver. These devices tend to periodically (on a millisecond base) communicate with the OS even when the user is not reading data from it or writing data to it. So it never actually stays "Idle" and will never be automatically disconnected by this function. External USB HDD type storage device does not have this problem.

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Device Property

Clicking on the Device Property to bring up the **Device Property** dialog box.

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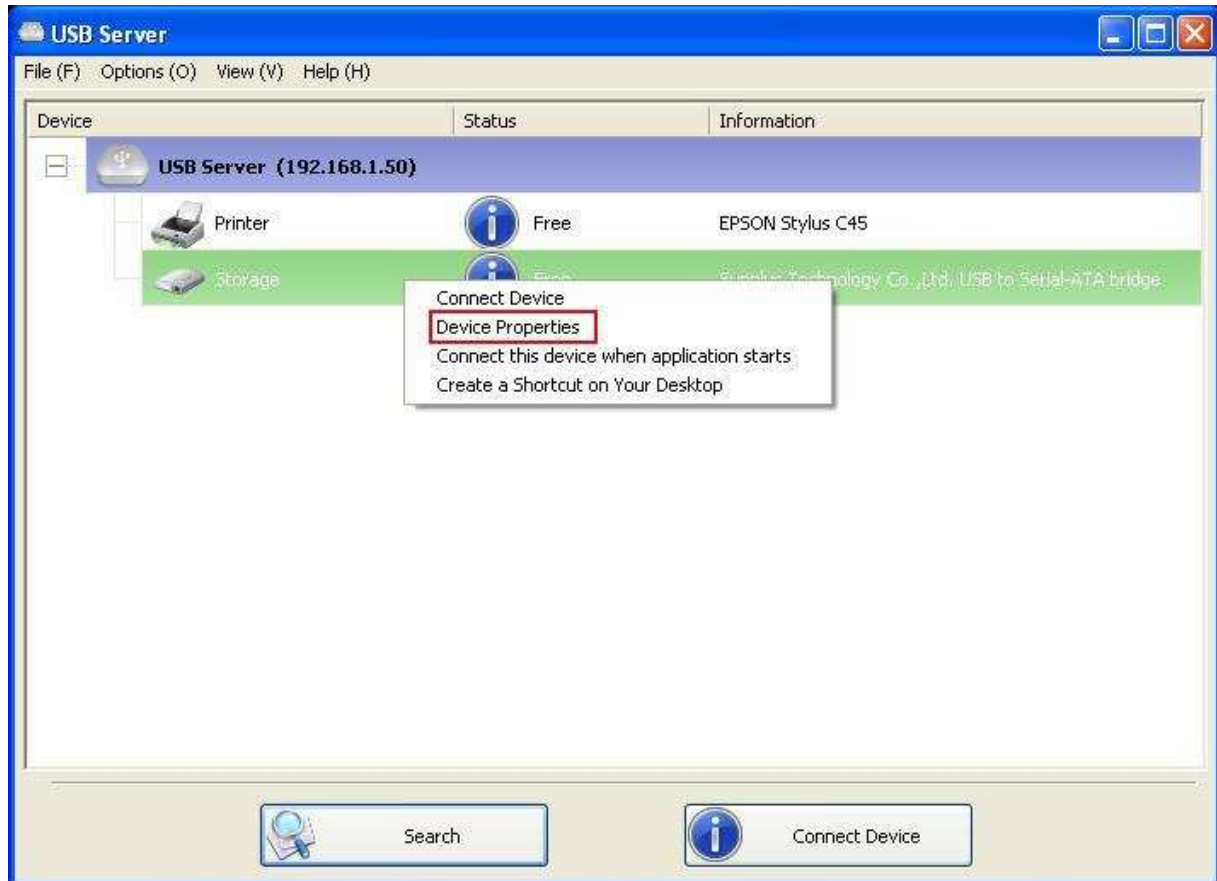
Device Property dialog box displays information of the USB device. If the device is occupied, it also displays the occupying PC name and the IP of the PC occupying it.

This dialog box provides a quite useful function. Check the **Launch a program when this device connects** checkbox and provide the path to that program/utility/application software, then the program/utility/application software would automatically starts up after you connect the device.
This function is particularly useful when the USB device you connect works with an application, such as scanning utility with a multiple function printer.

File

The **Quit** function exits the program.

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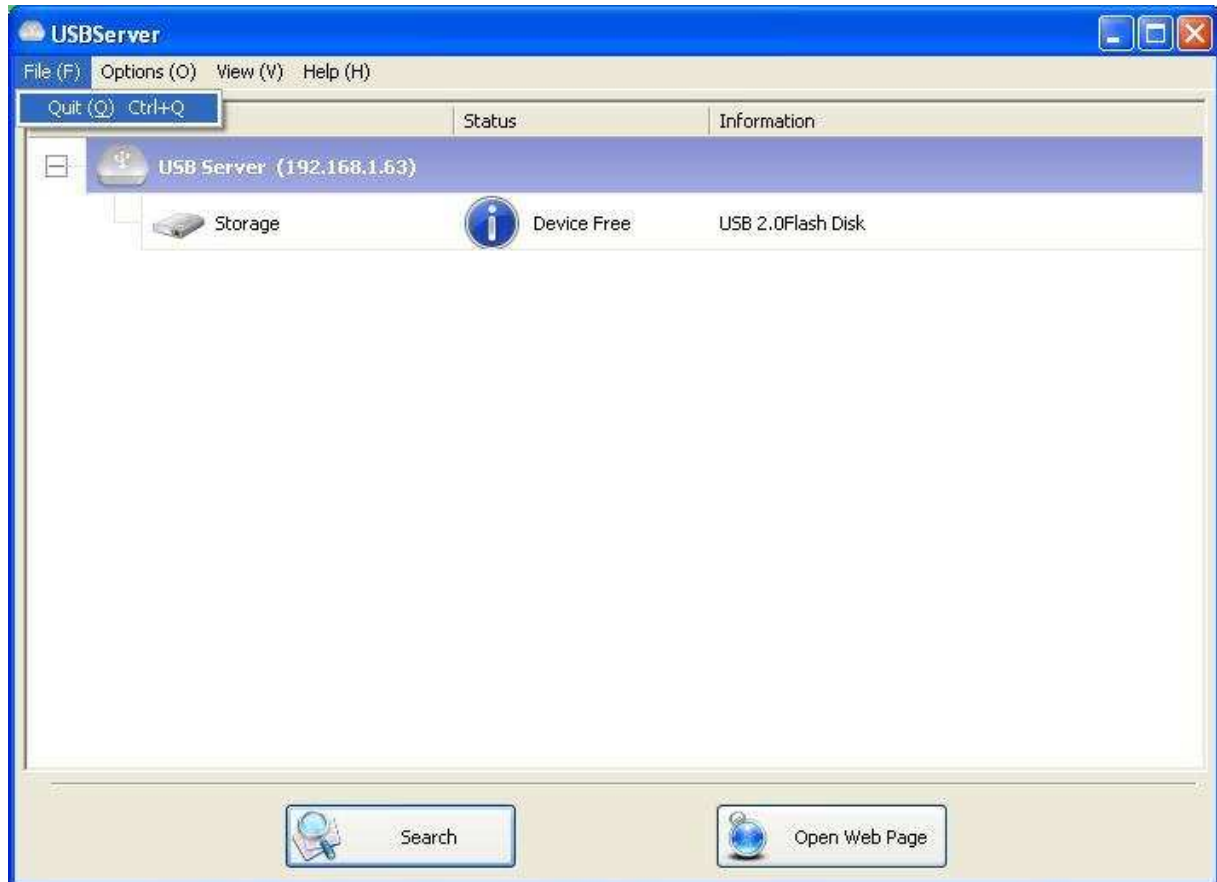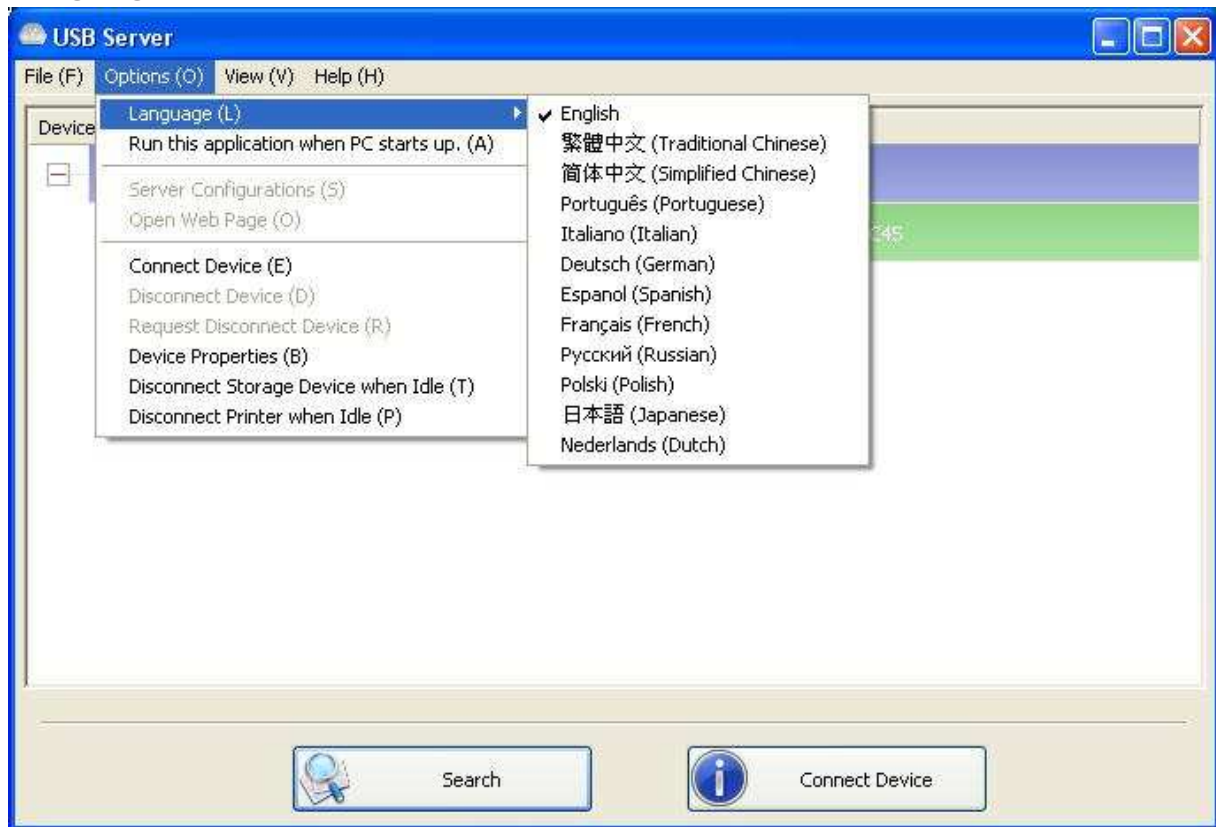
Options

Language

You can change the utility's language with this option. The default language would be the same as your system's language.

Server Settings
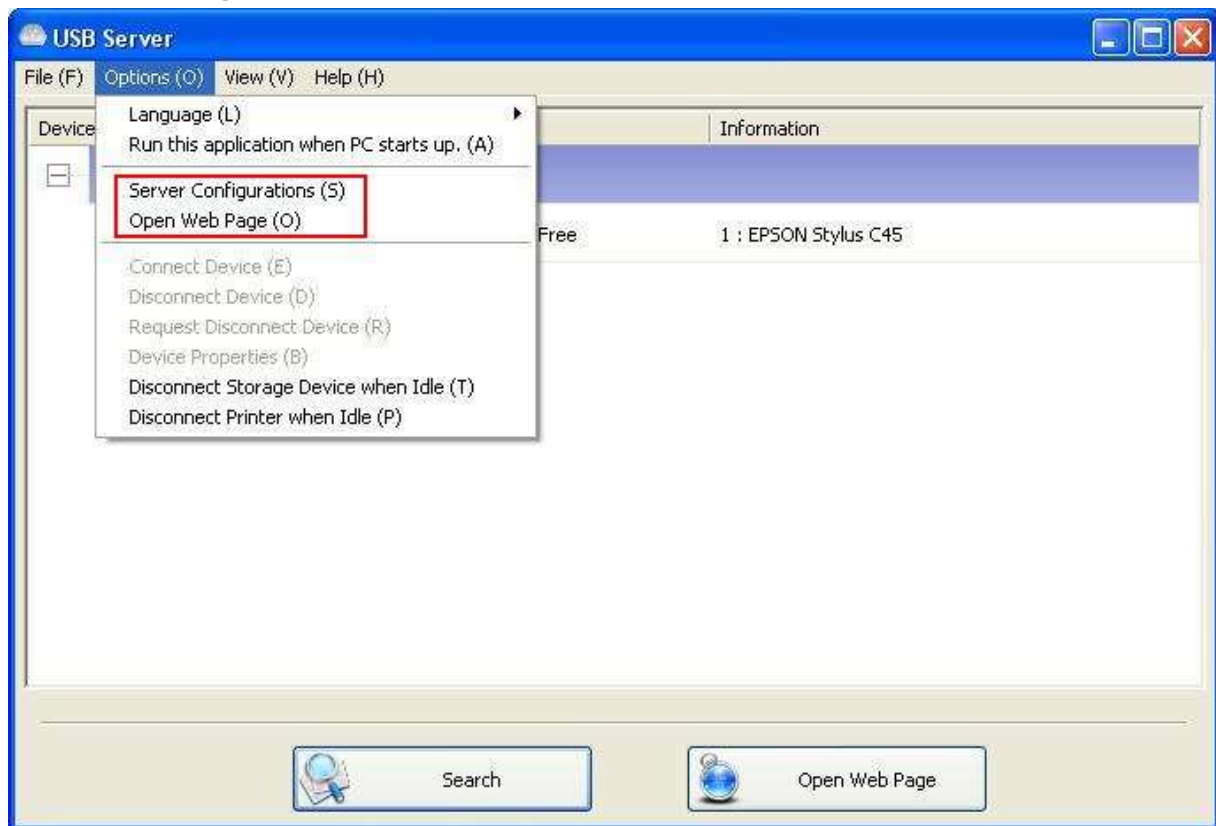
Setting Server: Same function as the Setting Server option on the server icon's right click menu.

Run USB Server When PC Starts Up: This utility automatically runs when your system starts up.

Open Web Page: Brings up the server's configuration web pages.

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Device Settings
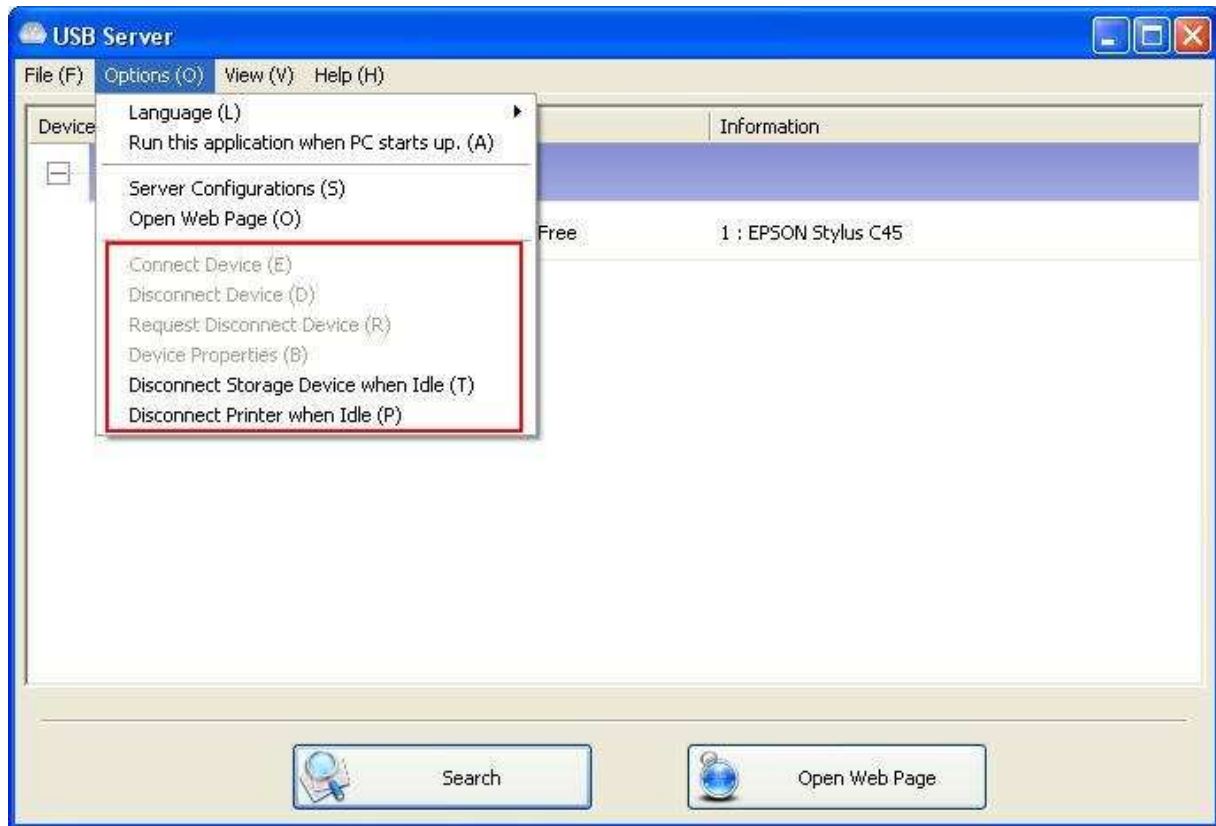
Connect Device and Disconnect Device: Connects and disconnects the selected device.

Request Disconnect Device: When you want to use a device occupied by other user, you can highlight that device and use this function. This sends a message to the occupying user with your request. The occupying user would either release the device or deny the request if s/he is still using the device.

Device Properties: Brings up the device properties dialog the same way as the Device Properties option when you right click on the device icon.

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Search

When you are in need of knowing the status of all the servers and devices immediately, use the **Search** button.
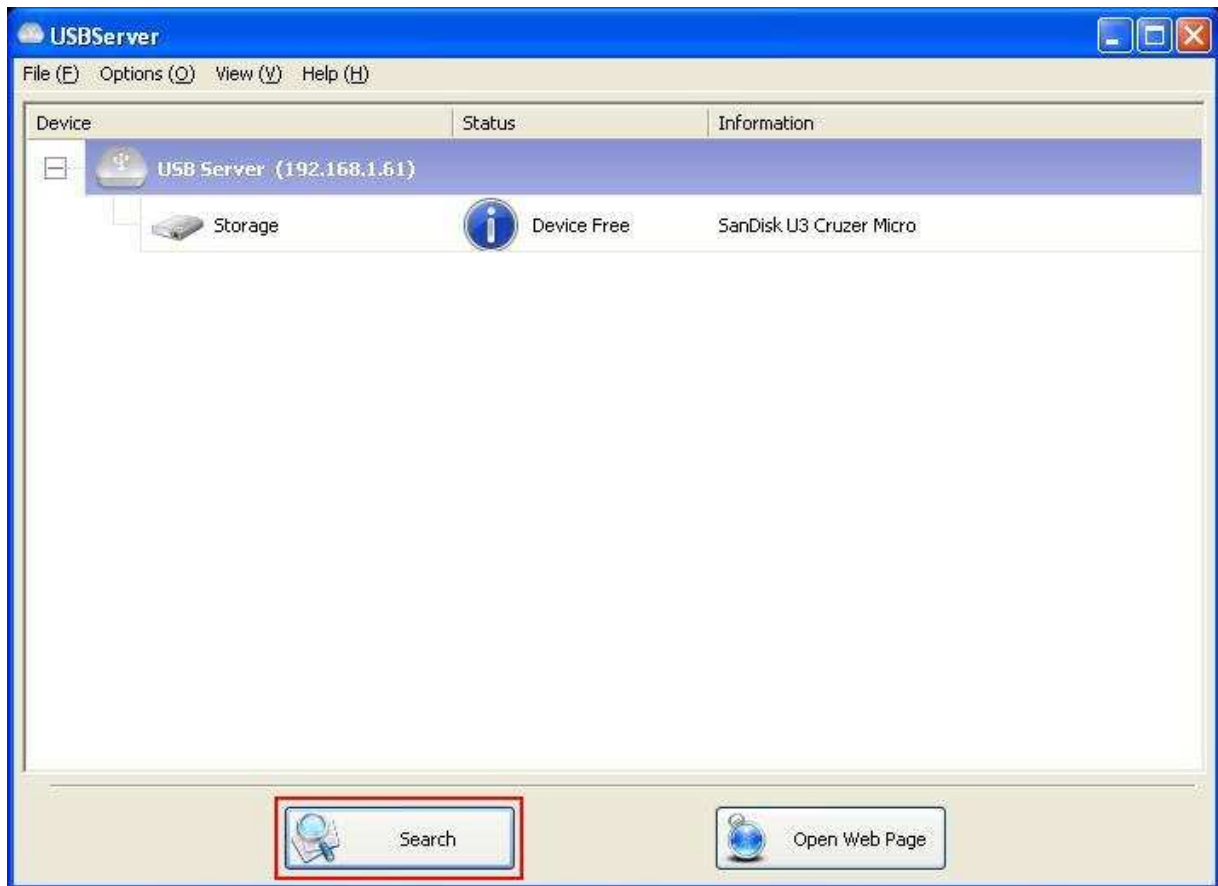
Clicking on the **Search** button triggers the program to immediately poll the network for the status of all the servers and devices. The result will be updated to the tree view.

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View

The tree view in the main dialog has two display modes: "Servers and Devices" mode and "Devices Only" mode. The default setting is "Devices Only" mode. You can toggle between these two display modes with the View option on the control menu:
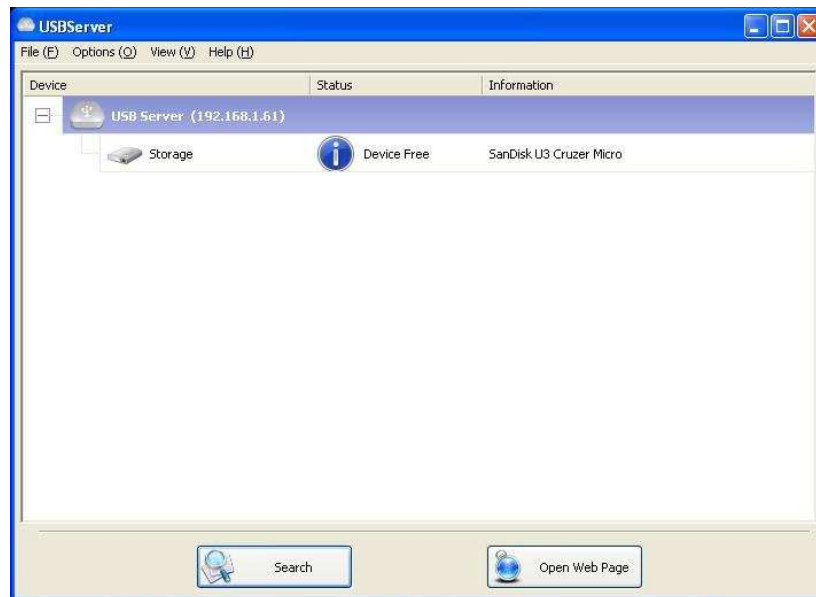
Servers and Devices view

Device Only View

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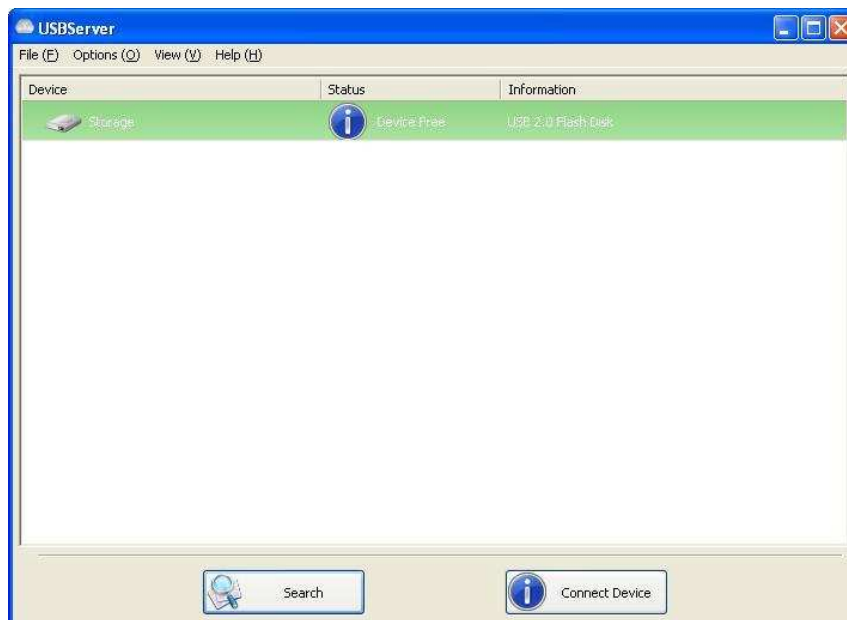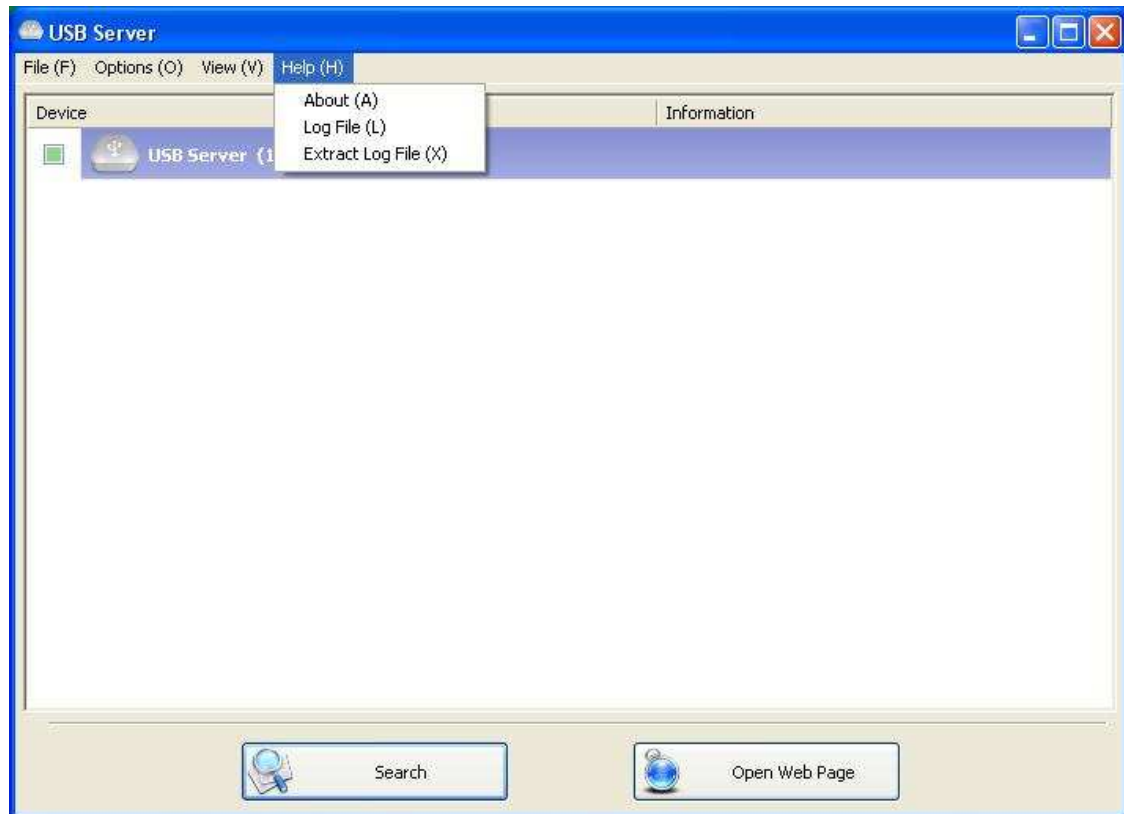
Help

About

About option brings up a dialog box with legal and other relative information displayed:
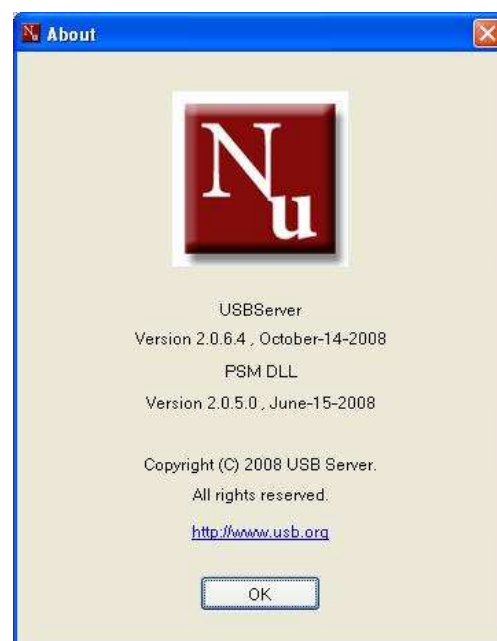
Log
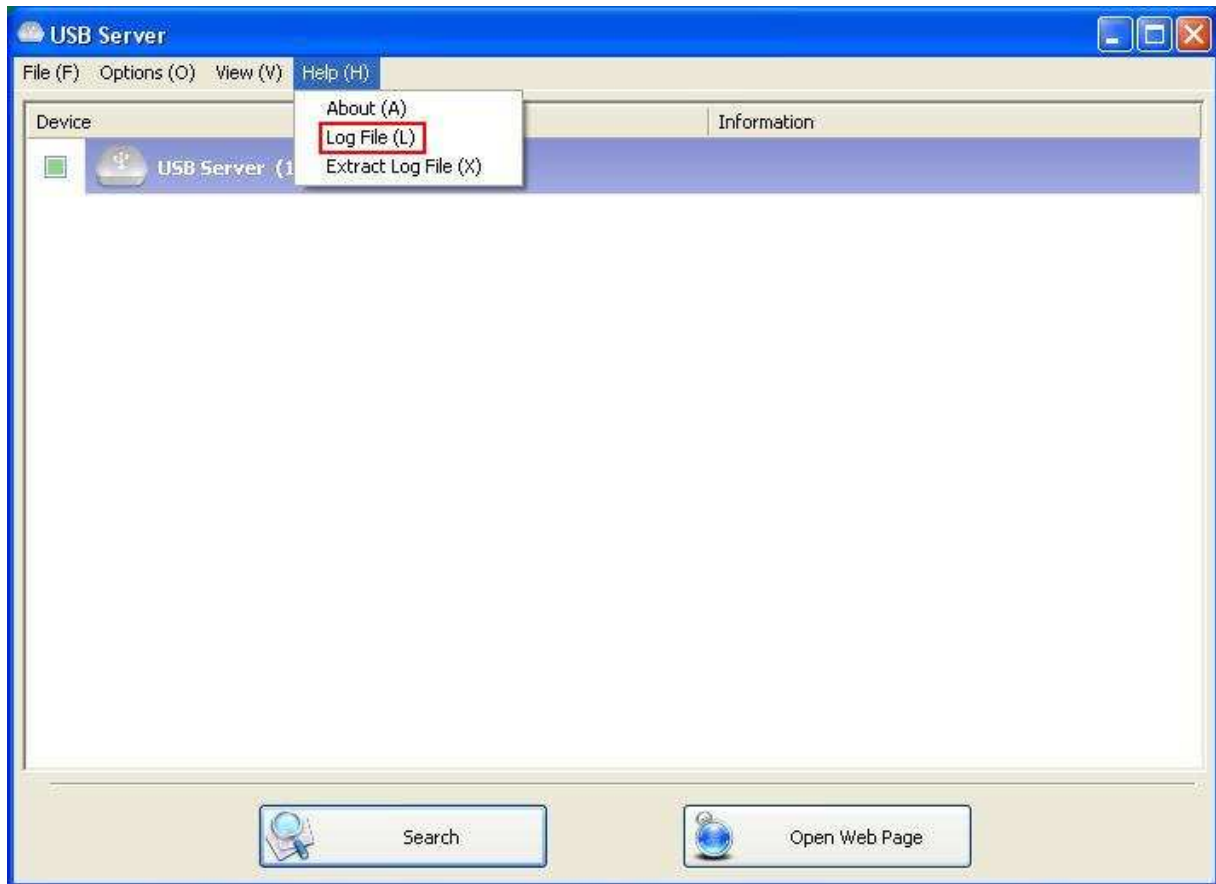
Enabling Log function allows the USB Server software to generate a log file that records data which might help software developers debug a problem. So if you want to report a bug, enable this function and repeat the steps to reproduce the bug. Once you have seen the bug happen again, you can use the Extract log file function to extract the file and send the file in for analysis.

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Extract Log File
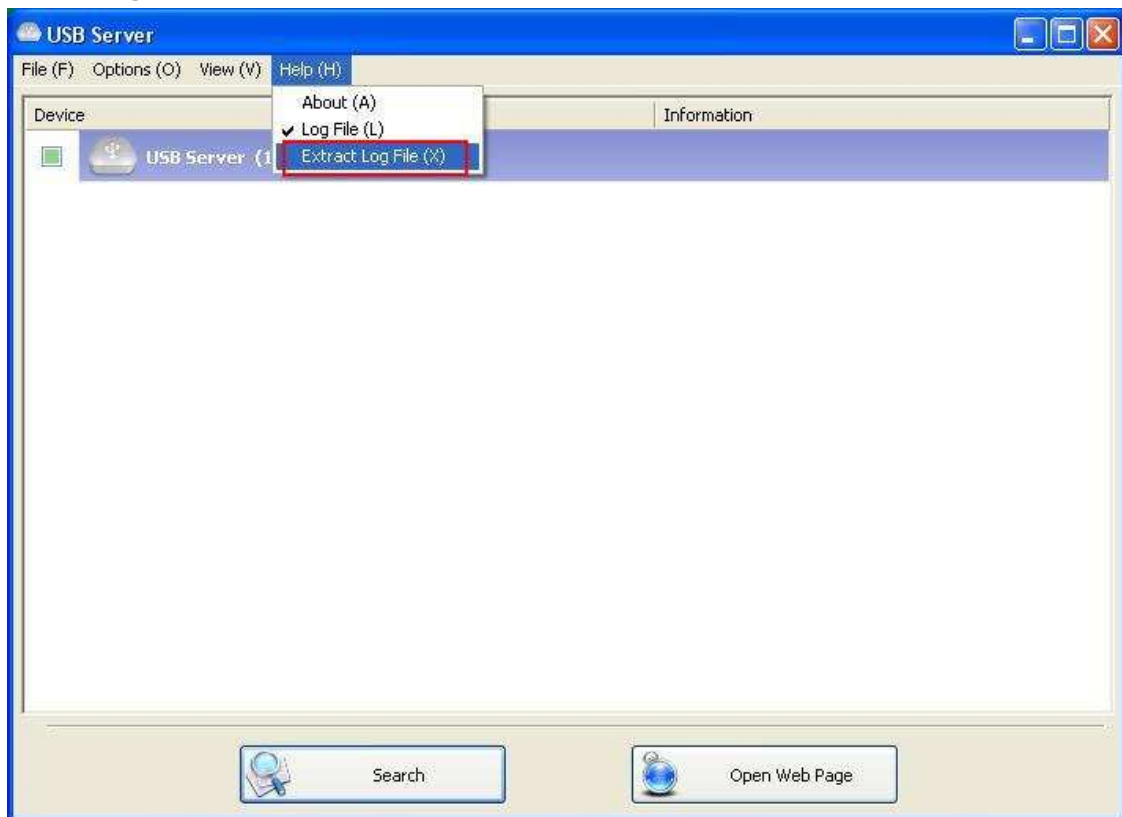
Clicking on this option brings up the folder where the log file is kept.

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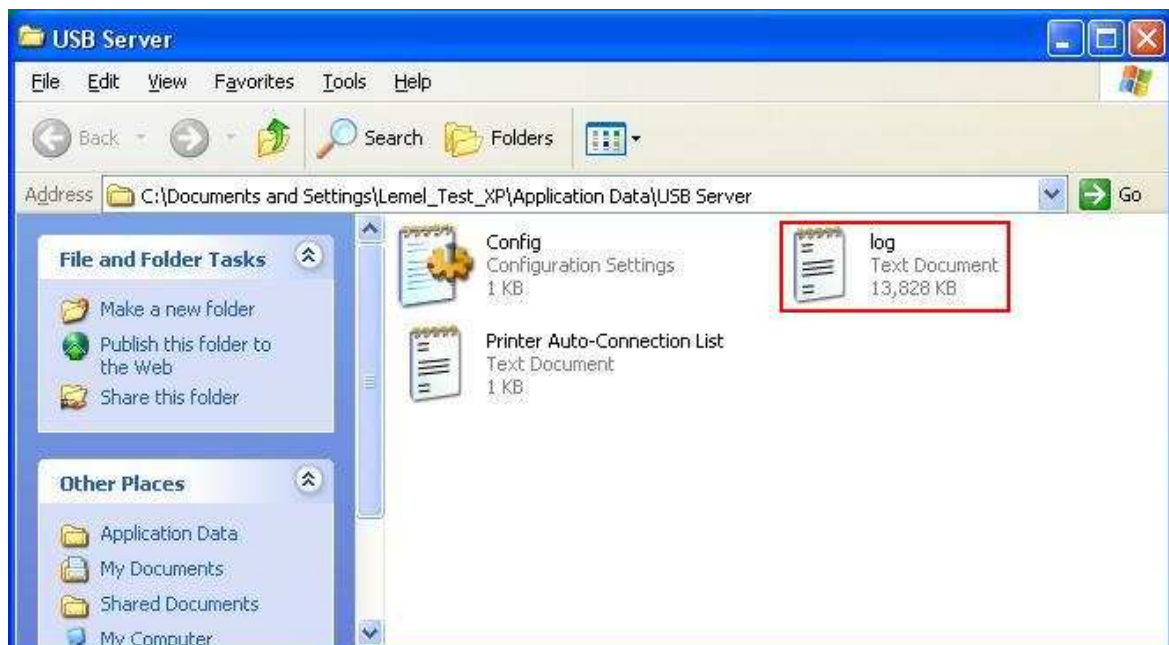
FAQs

General Questions

Q. How come I don't see any device on the utility?

Besides the obvious reason that your PC or the USB Server might not be connected to the network correctly and or the product is not powered-on, using a personal firewall on your PC might block the program from accessing the network. Please make sure your personal firewall/anti-virus software is not blocking USB Server application. If this is the case, you need to consult the manual of personal firewall/anti-virus software on how to allow a program to go through.

Q. What language(s) does this product support?

The product's software, including the utility and the installer, supports 11 languages:

English	Portuguese
French	Russian
German	Simplified Chinese
Italian	Spanish
Japanese	Traditional Chinese
Polish	

The product's web page supports 5 languages currently:

English	Portuguese
Italian	Traditional Chinese
Japanese	

Q. How come I can't see any USB device on the USB Server GUI?

First of all, of course, check and if your USB device has been correctly connected to the product and powered on.
Another possible reason is that, even though the USB server does support USB hub, the combination of a Full Speed Hub with a Low Speed Device (such as mouse, keyboard, etc), is **NOT** supported by this product.

Q. OK, I have connected the USB device, now what?

Once a USB device is connected, simply use it the way you use it as if it is connected to your PC's USB port. The usage is and should be the same.

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Q. I connected to the device but it doesn't work?

There are a few things you can check when you run into this problem.

1. Some USB devices requires device driver to work properly. You should check and see if the device driver is correctly installed. To do so, simply connect the USB device to your PC directly via a USB cable and see if the USB device works. If it does not work, then it wouldn't work when connected via USB server either.

2. USB devices that are in use for a long time might suffer from component deterioration and hence does not provide USB signal that is strong enough to interact with our USB Server. Putting a USB hub in between the USB server and the USB device might help.

3. Please note that some USB devices are not supported by our USB server. Please make sure your USB device is listed as supported on our released document

Q. How come I don't see the USB hub on the utility?

By the product's design, USB hub is not considered as a USB device in the common sense. The reason for this design is that, connecting to the USB Hub is quite meaningless since it provides no meaningful function as connecting the device behind the USB hub would, hence we simply do not show USB hub on the utility. You could still connect to the USB device behind the USB hub.

Q. What does "Device not supported due to limited bandwidth" message mean?

You may see this message when attempting to connect MORE THAN 1 USB web cam, audio device or other multimedia device on the same server.
USB 2.0 device by specification could be transmitting data at 480 Mbps during operation, though in reality they are usually transmitting at a rate of 200+ Mbps. Connecting more than of such device would exceed the available bandwidth provided by this product hence is not allowed.

Q. Oops, I forgot the password. What can I do?

On the product, there is a Reset switch that allows you to reset all configurations back to the default settings as it was when you purchased this product. This function resets the password as well. To do this, simply hold down the Reset button for three seconds and let go.

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Supported USB Devices

Q. What USB devices does this product support?

Please contact your vendor for a supported device list if the product package does not contain one already. Please note that the supported devices are not limited to those that are on this list. **The devices on the list are those that has been tested and verified to work. Devices that are not on this list MAY or MAY NOT be supported by this product**.

Q. How many USB printers can I connect to this product?

Depending on the product design, you should be able to connect at least one and up to four USB printers. **Please consult the supported device list for all the supported printers**.

Q. How many USB multi-function printers can I connect to this product?

Depending on the product design, you should be able to connect at least one and up to four USB multi-function printers. **Please consult the supported device list for all the supported multi-function printers**.

Q. Does this product support USB scanner?

Yes, it does. Depending on the product design, you should be able to connect at least one and up to four USB scanners. **Please consult the supported device list for all the supported USB scanners**.

Q. Does this product support USB external HDD/storage?

Yes, it supports USB pen drive, card reader and USB HDD device. Depending on the product design, you should be able to connect at least one and up to four USB storage devices. Most of the USB mass storage device on the market should be supported.

Q. Does this product support USB external CD/DVD reader/recorder?

Yes, it supports USB external CD/DVD reader/recorder. Depending on the product design, you should be able to connect at least one and up to four USB external CD/DVD reader/recorder devices. Most of the USB external CD/DVD reader/recorder on the market should be supported.

Q. Does this product support USB web cam?

This product supports only one USB web cam. Many web cams on the market today are what we called USB 2.0 device. USB 2.0 devices, by specification, could be

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transmitting data at 480 Mbps during operation. The bandwidth provided by this USB Server product is at most 320 Mbps. Though in reality a single webcam may not require 480 Mbps bandwidth, the required bandwidth of two or more web cam definitely exceeds the 320 Mbps this product could provide. Hence only 1 USB web cam is supported on each USB server.

Q. Does this product support USB Speaker/Mic.?

Yes it does. **However, ONLY 1 USB speaker/audio input/output device is supported per product. Please consult the supported device list for all the supported USB audio devices**.

Q. How come my USB device does not work with this product?

Though this product supports a lot of USB devices, it is not without limitation. Please contact your vendor for a list of all the supported devices. This list contains devices that has been tested and verified to be compatible with this product. Those devices that are not on this list might or might not be supported.
You may also contact your vendor for any device firmware and software update, which might improve device compatibility of this product to support your device that didn't work with the current firmware and software.