

TP-LINK®

User Guide

TL-PS310U

Single USB 2.0 Port MFP and Storage Server



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FCC 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 or more 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.

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.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Chapter 1 Introduction

1.1 Product Overview

MFP and Storage Server enhances capability by letting you place your USB devices at convenient locations directly on the Ethernet network. It's designed to connect your USB printers, MFP, and USB storage devices to your network, allowing all network users access to these USB devices remotely.

1.2 Network Management

MFP and Storage Server supports the WEB management, which remote management and a warning. A standard WEB server is permanent on its MFP and Storage Server. Any standard WEB browser can be used to access and manage the MFP and Storage Server.

1.3 Components and Features

- 1-USB 2.0 Port MFP and Storage Server
- 1 USB 2.0 port (High-speed)
- Fast Ethernet network port: RJ-45 for 10Base-T or 100Base-TX
- LINK LED to indicate network connection, 100M LED to indicate 100M connection, USB LED to indicate USB status
- One Setup CD for Windows 2000/XP/Vista/7, and User's Guide
- One power adapter
- Built-in Reset Button

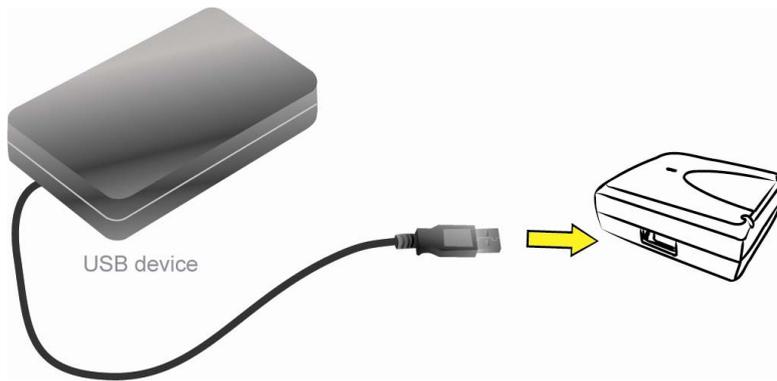
Before you start, you should prepare:

- One Windows 2000/XP/Vista/7 computer with CD-ROM drive
- One USB device with USB port

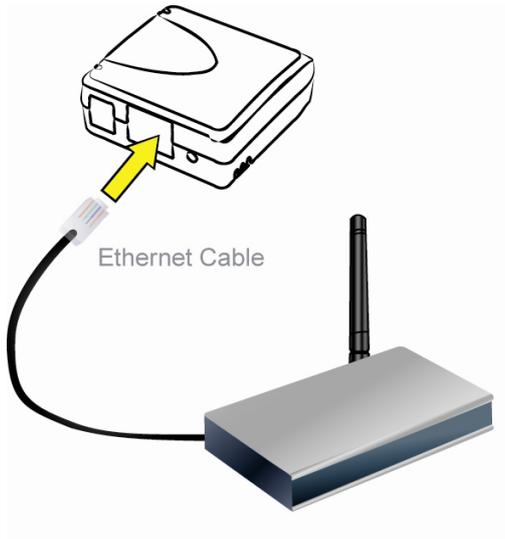
1.4 Hardware Installation

Make sure that your USB devices are switched off and that the MFP and Storage Server's power adapter is disconnected.

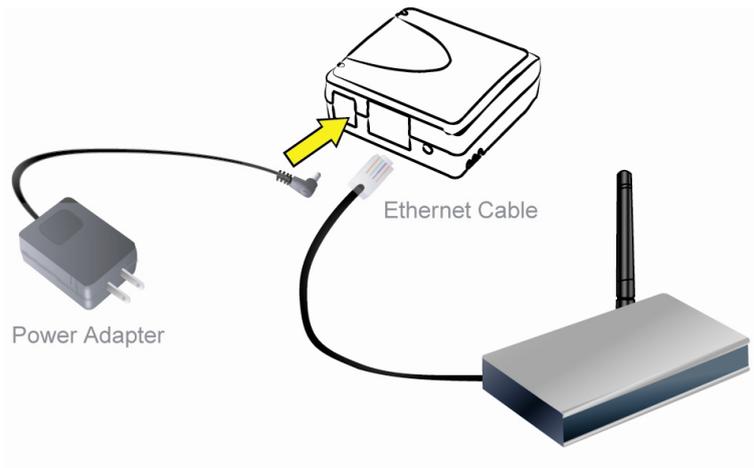
1. Connect your USB device to the USB port of the MFP and Storage Server.



2. Connect the MFP and Storage Server to the router or switch/HUB with the Ethernet cable.



3. Connect the power adapter to the MFP and Storage Server. When the LINK LED lights up, the MFP and Storage Server is correctly connected to the network.



Chapter 2 Software Installation

2.1 For Windows 2000/XP Users

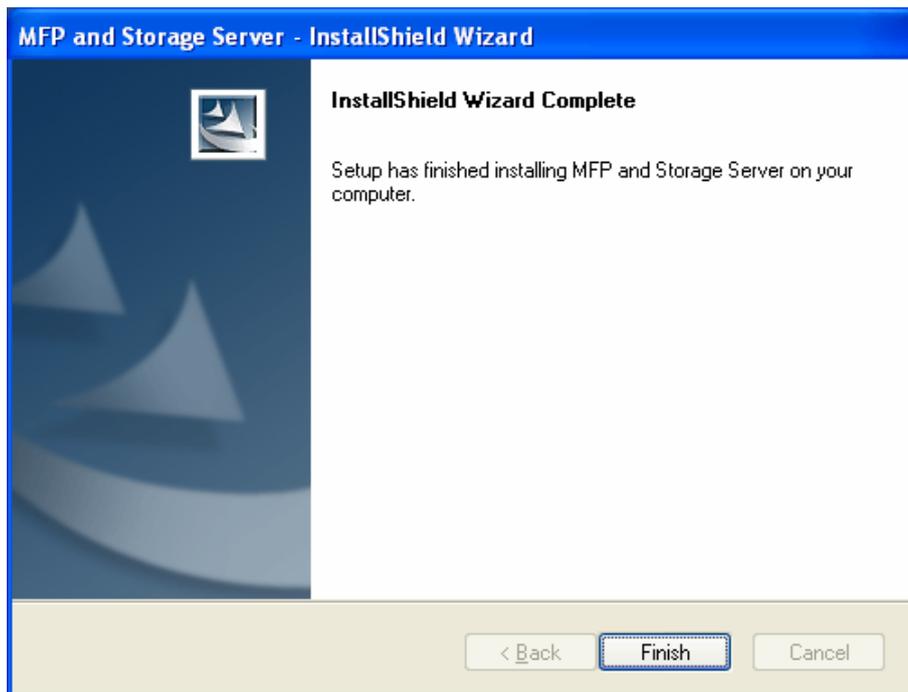
1. Insert the setup CD into your CD-drive. The auto-run program will be started. Select the model.



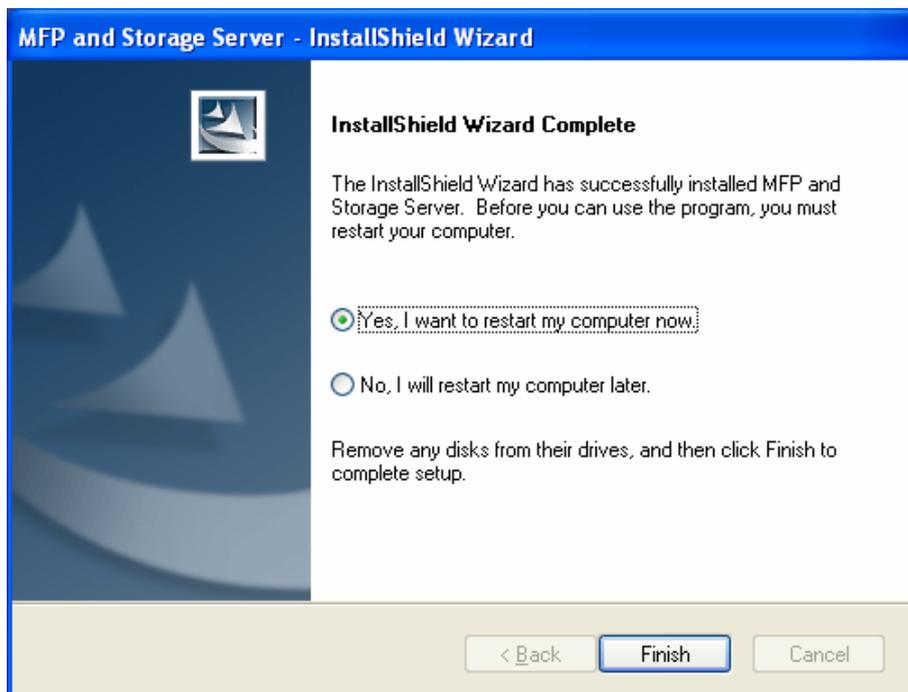
2. Choose your operating system to install all software programs.



- When the installation completed, click **Finish** to close the installation wizard.



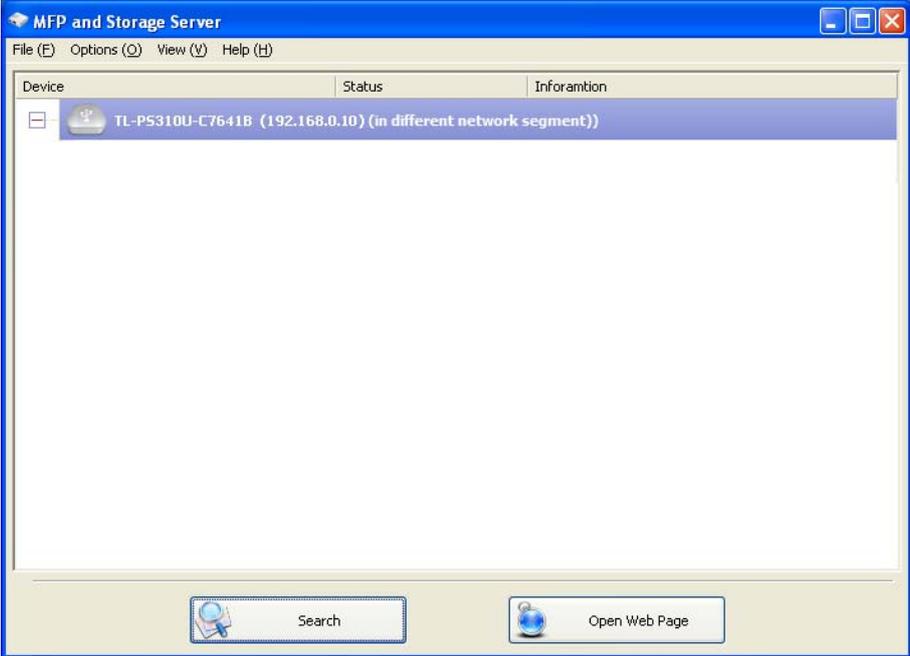
- Choose **"Yes, I want to restart my computer now."** to restart your computer.



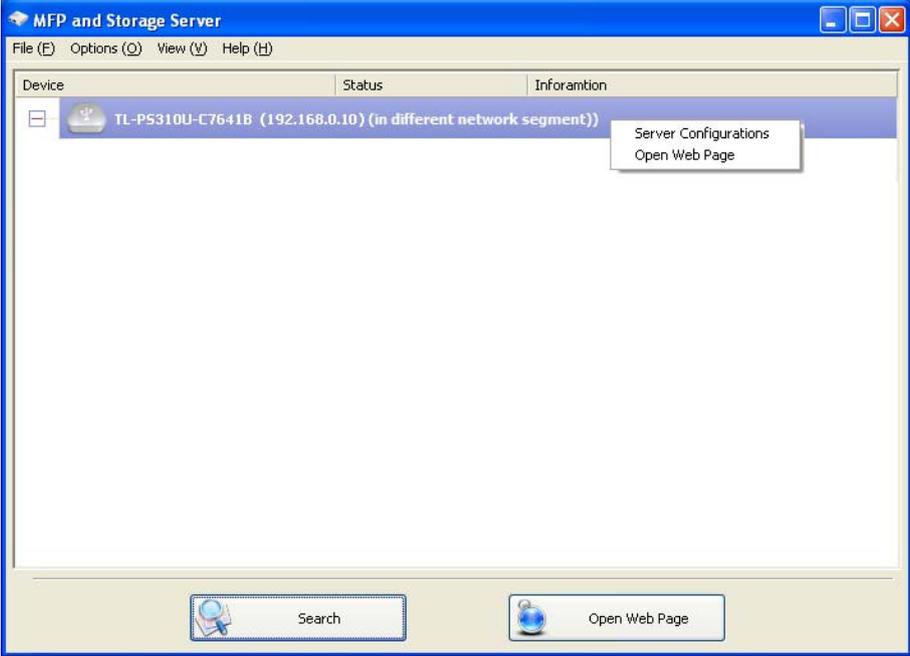
- After rebooting, you will see a new icon on your desktop. Double-click the icon and it will bring up the MFP and Storage Server setup utility.



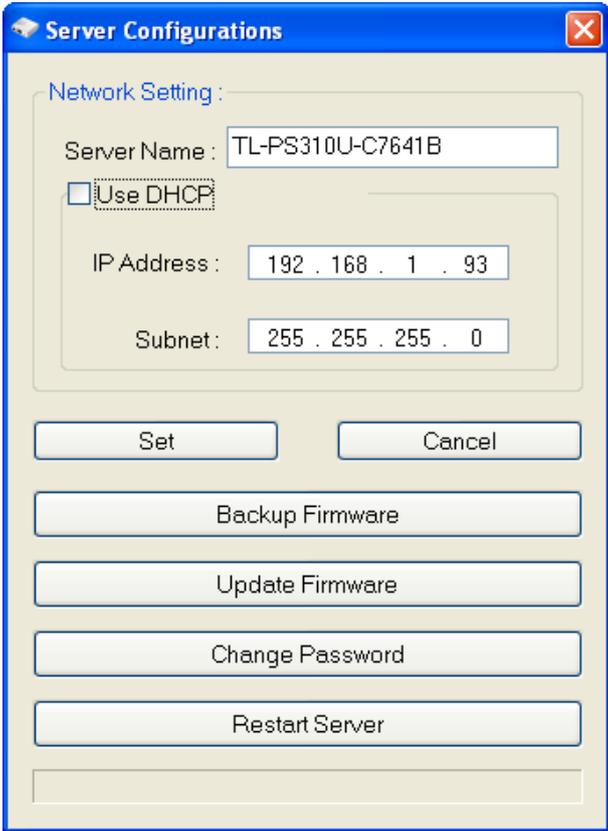
- 6. The setup utility will show up and display all the active MFP and Storage Servers on your network. In the screen, you will see the product listed as “TL-PS310U-C7641B (192.168.0.10)”. “C7641B” is the last 6 digits of the MFP and Storage Server’s MAC address, and the “192.168.0.10” is the MFP and Storage Server’s default IP address.



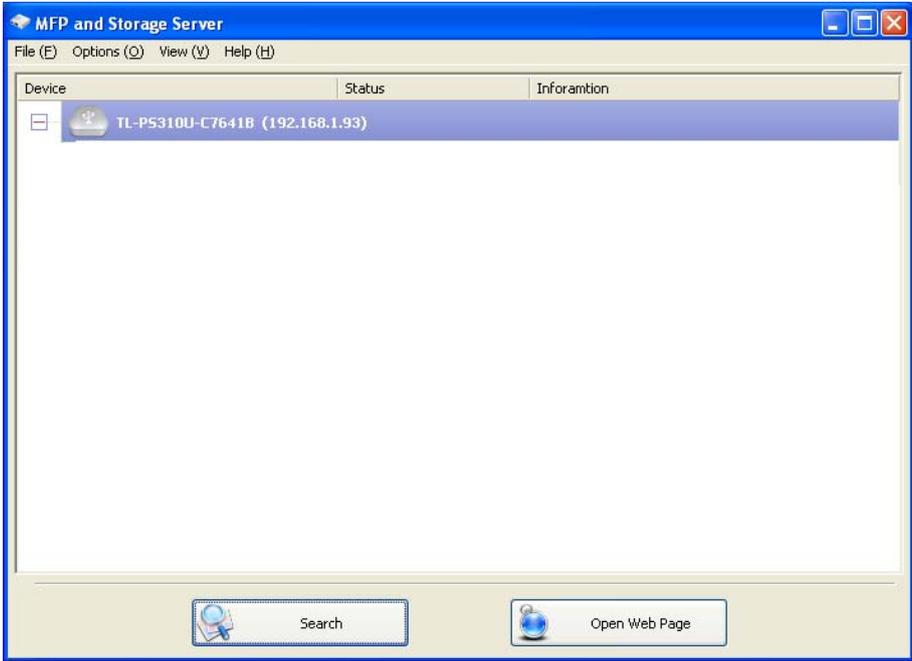
- 7. If your computer is not in the 192.168.0.X network segment, it will tell you the TL-PS310U is in different network segment. In this situation, you need to change the IP of TL-PS310U. Select the print server, right-click on it and select “**Server Configurations**”.



- 8. Configure the IP address of the print server according to your network (take 192.168.1.93 for example). And then click **Set**. And then click **Restart Server** to make the change take effect.

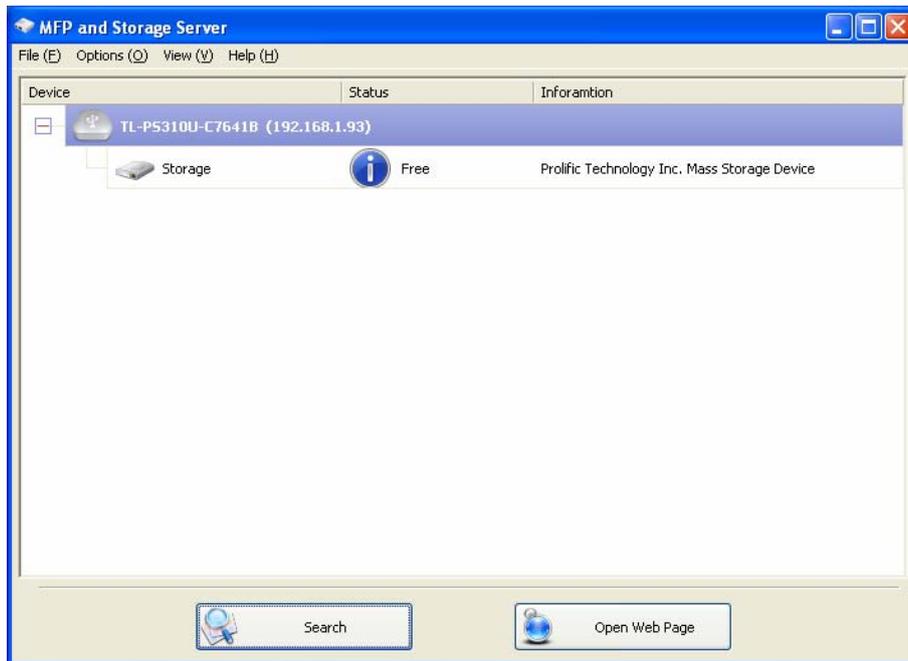


- 9. Then you will see the IP address of the print server has been changed.



2.1.1 Connecting to an USB Device

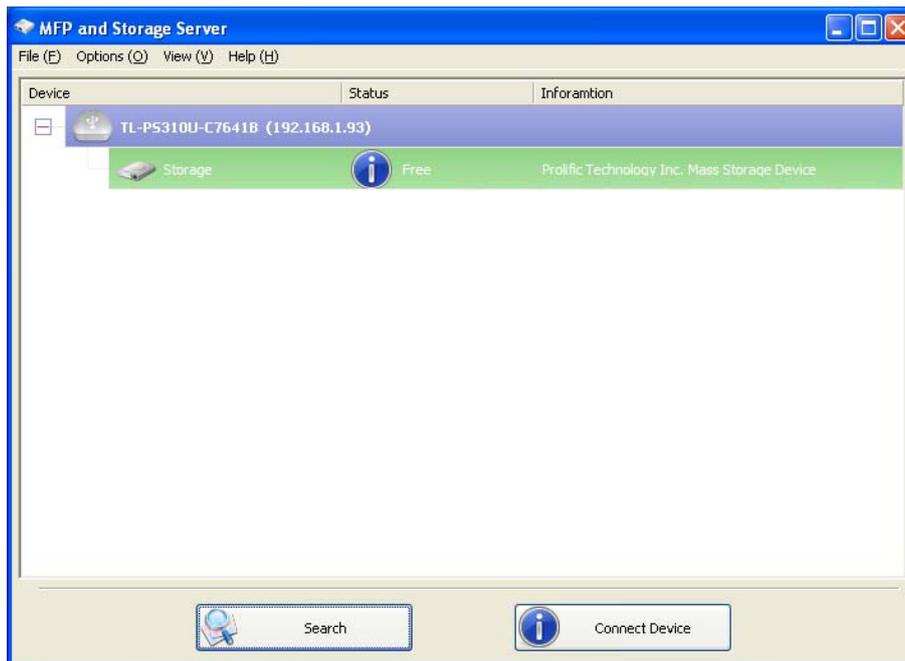
1. Connect the USB cable on your USB device to the USB port of the MFP and Storage Server, and make sure both the USB device and the MFP and Storage Server are powered on. The USB device will then show up on the MFP and Storage Server utility as a blue icon (). The blue icon indicates that the USB device is ready to be connected. If for any reason the USB device does not show up, please click the **Search** button to refresh the list.



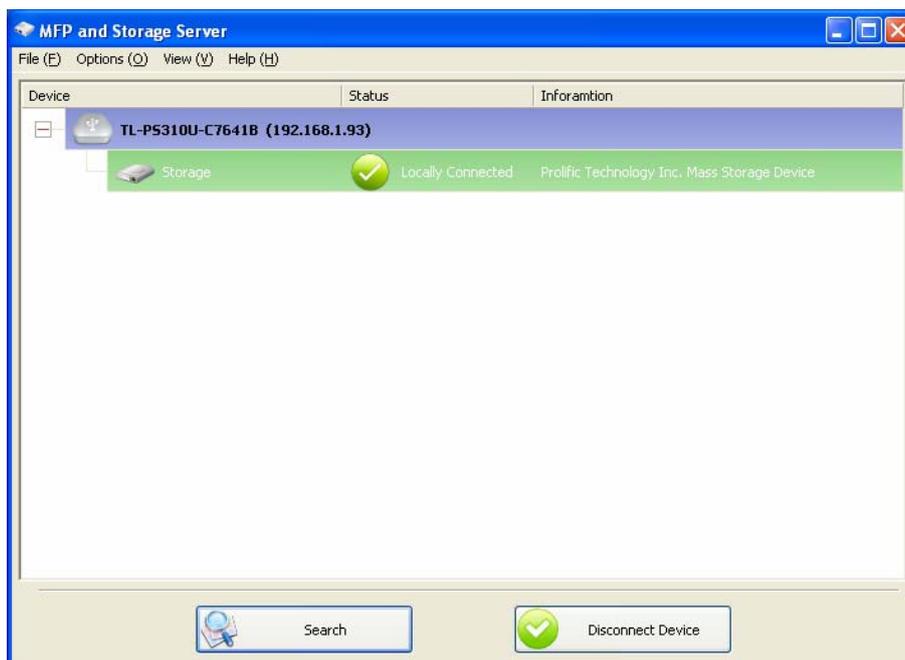
Note:

If your USB device does not show up on the list, please try to disconnect and reconnect the USB device to the USB port of the MFP and Storage Server. Also, please make sure the MFP and Storage Server and your USB device are powered on.

2. Select the USB device that you will want to connect and click on the **Connect Device** button at the bottom.

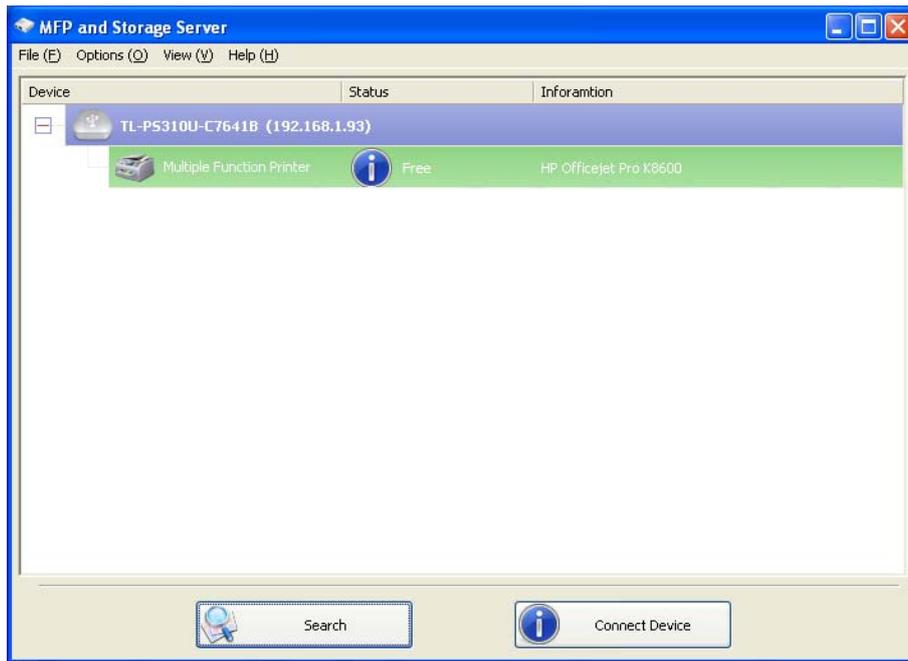


3. Once the USB device has been connected, the blue icon (i) will turn green (✓) to indicate that the connection has been established. The USB device now becomes available on your computer, and you can use this USB device as if it was directly connected to your computer.



2.1.2 Connecting to an USB Printer or Multi-functional Printer

1. Connect the USB cable on your printer or multi-functional printer to the MFP and Storage Server and make sure your printer is powered on. You will then see the connected printer show up in the MFP and Storage Server setup utility. Select the printer from the list and click on the **Connect Device** button.



Note:

If your printer does not show up on the list, please try to disconnect and reconnect the printer to the USB port of the MFP and Storage Server. Also, please make sure the MFP and Storage Server and your printer are powered on.

2. The printer will be detected as if it was plugged directly into your computer.



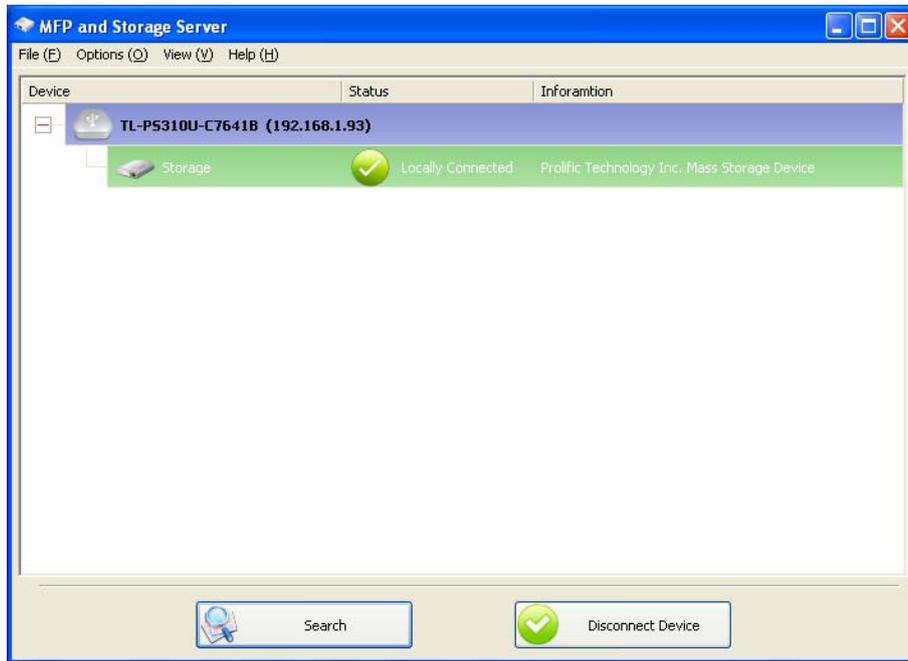
3. If this printer is connected to your computer for the first time, then you will need to complete the setup wizard for the printer software and driver installation. Please follow the wizard to setup the printer. Make sure you have the correct CD or drivers for your printer and follow the on-screen steps in the wizard. Once the wizard is completed, you will be able to use the printer as if it was directly connected to your computer.

Note:

- 1) Some of the multi-functional printers feature the self-programming capabilities so that it might be failed during the driver installation (step 3 above). You are recommended to connect the printer to computer and complete the driver installation in advance, and then connect it to the MFP and Storage Server.
- 2) Please refer to your printer user manual on how to setup your printer on the computer.

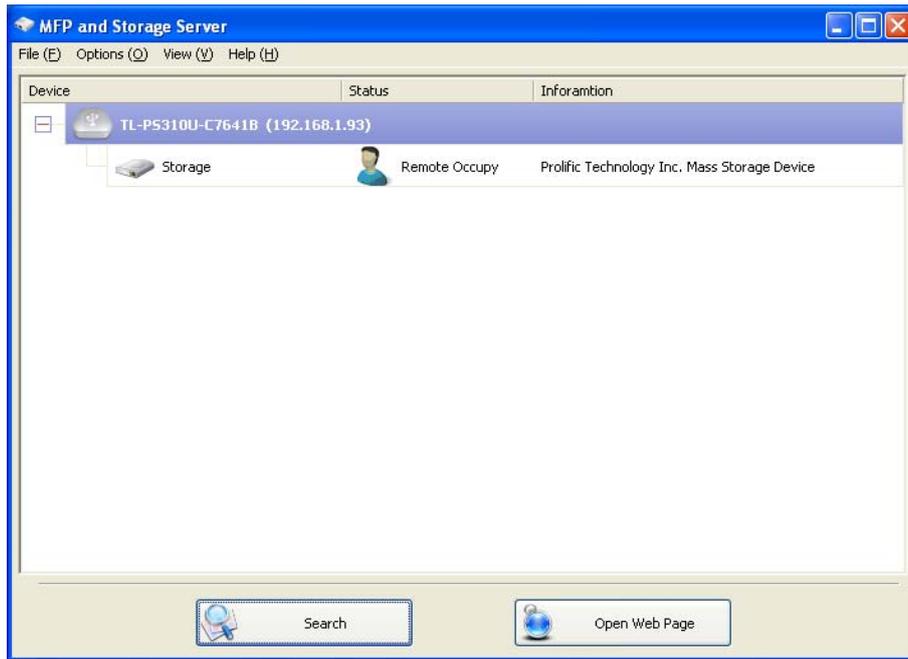
2.1.3 Disconnecting an USB Device

To disconnect an USB device, simply click on the connected USB device on the list of the MFP and Storage Server setup utility, and press the **Disconnect Device** button. The device will then no longer stay connected to your computer, however, you may reconnect the USB device again once the icon becomes blue ().

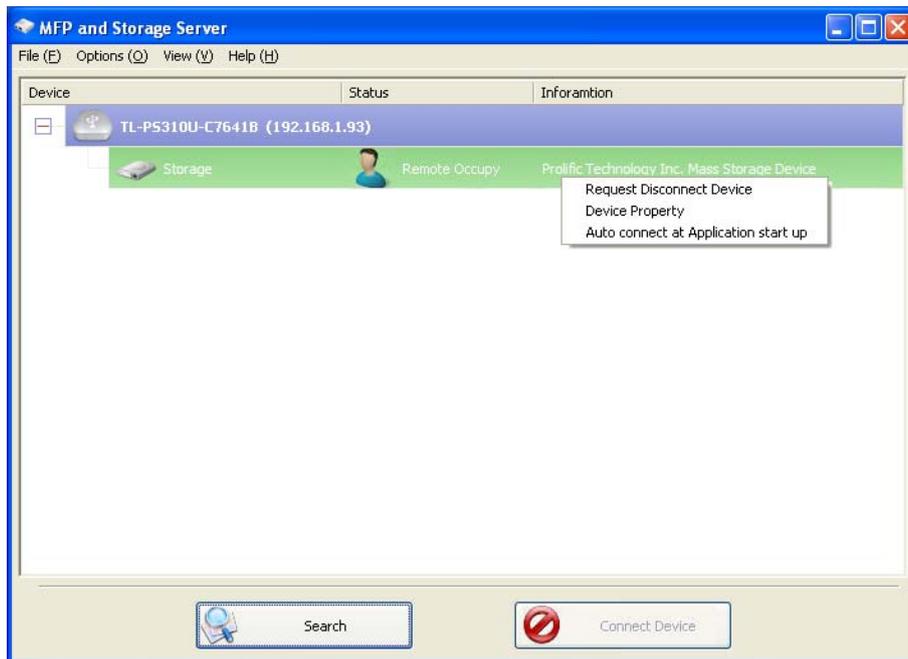


2.1.4 Request to Disconnect

1. If the USB device is being used by another computer on your network, a user icon () will be displayed in front of the USB device name. You will not have the option to disconnect the USB device; however, you may send a courteous message to request that the other user disconnect/release the USB device.



2. To send the courteous message, right-click on the USB device and select **“Request Disconnect Device”**. A message will then be sent to the user requesting that they disconnect from the USB device.

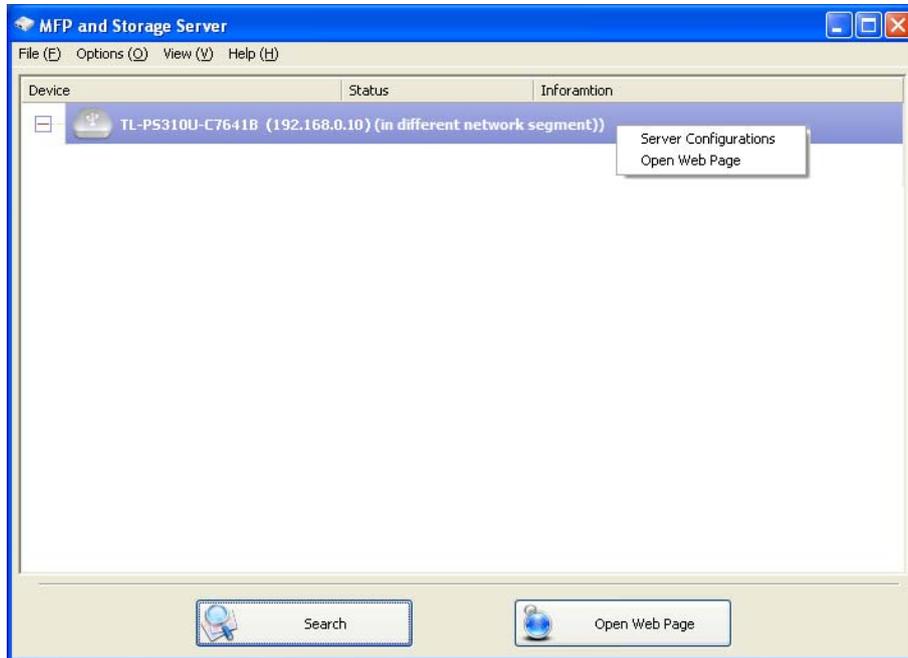


Note:

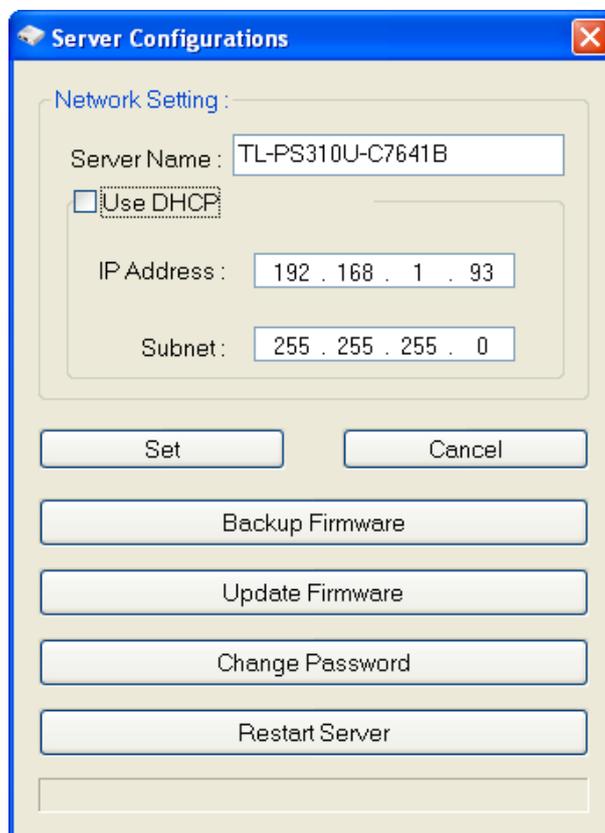
If the occupying user denies this request, then you will not be able to send any further requests to the same user for 3 minutes. This is to prevent any user from flooding the occupying user with multiple requests within a short period of time.

2.1.5 Setting the MFP and Storage Server by Setup Utility

1. To configure the MFP and Storage Server by setup utility, right-click on the MFP and Storage Server and select “**Server Configurations**”.



2. A Server Setting window will be displayed. You may set the DHCP (default), IP address and password. Moreover, you can upgrade the firmware and reboot the MFP and Storage Server.



2.2 For Windows 7 Users

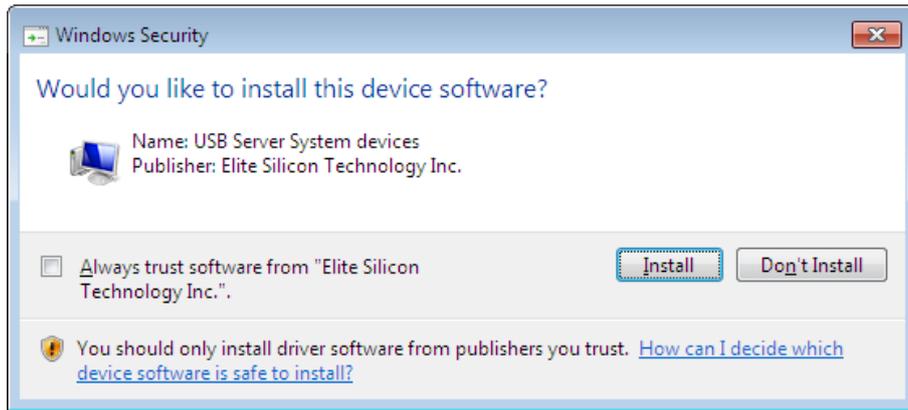
1. Insert the setup CD into your CD-drive. The auto-run program will be started. Select the model.



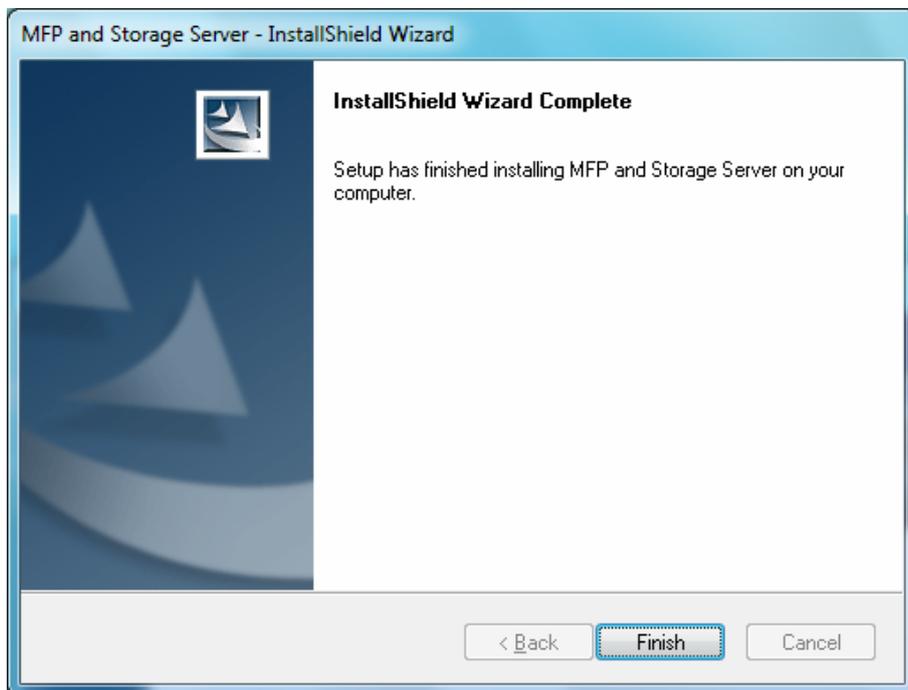
2. Choose your operating system to install all software programs.



3. The installation wizard will start the installation process. During the installation, a Windows Security message will appear. Select **Install** to continue.



4. Click on "Finish" to complete the installation process.



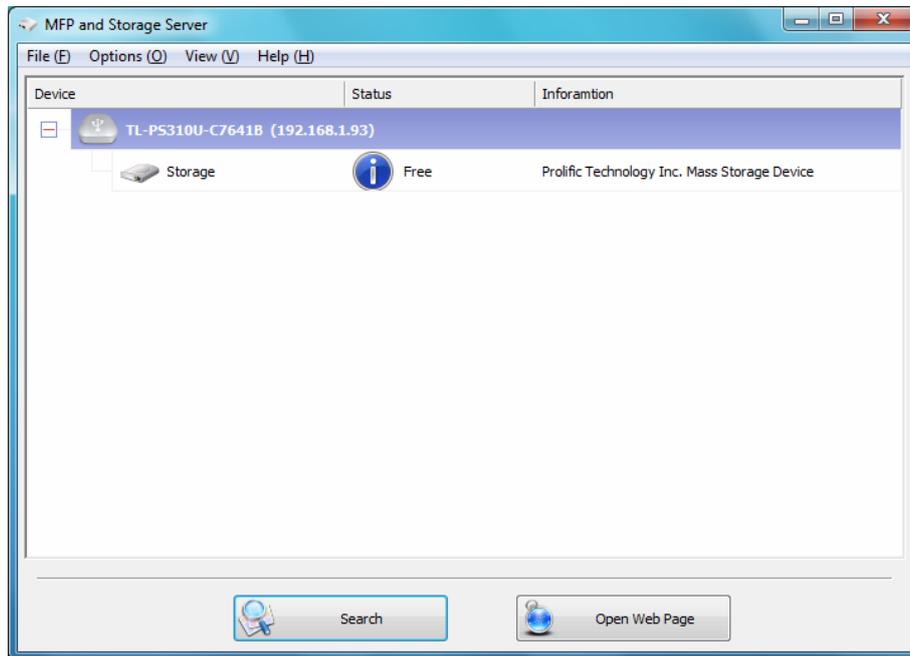
5. Once the installation process has been completed, a new icon will be shown on Desktop. Double-click on it for the first time execution.



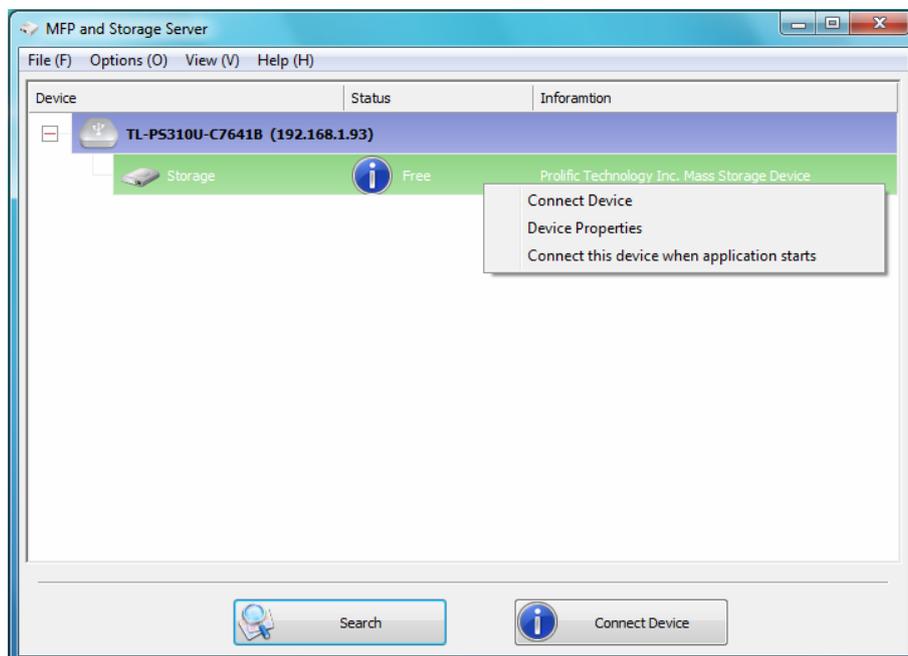
2.2.1 Connecting to an USB Device

1. After you have successfully installed the MFP and Storage Server driver, connect the USB device to the USB port of MFP and Storage Server and make sure both the USB device and the MFP and Storage Server are powered on.

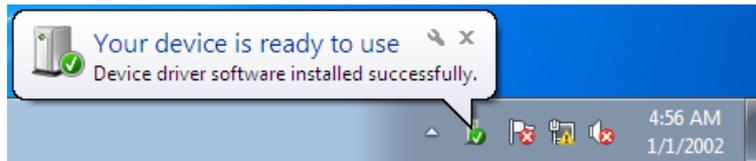
- When the USB device is connected, the MFP and Storage Server will detect the connection of the USB device, and an icon of the USB device will show up.



- Select the USB device that you want to connect to, right-click on it and select **“Connect Device”**, or click **Connect Device** button below to establish the connection.

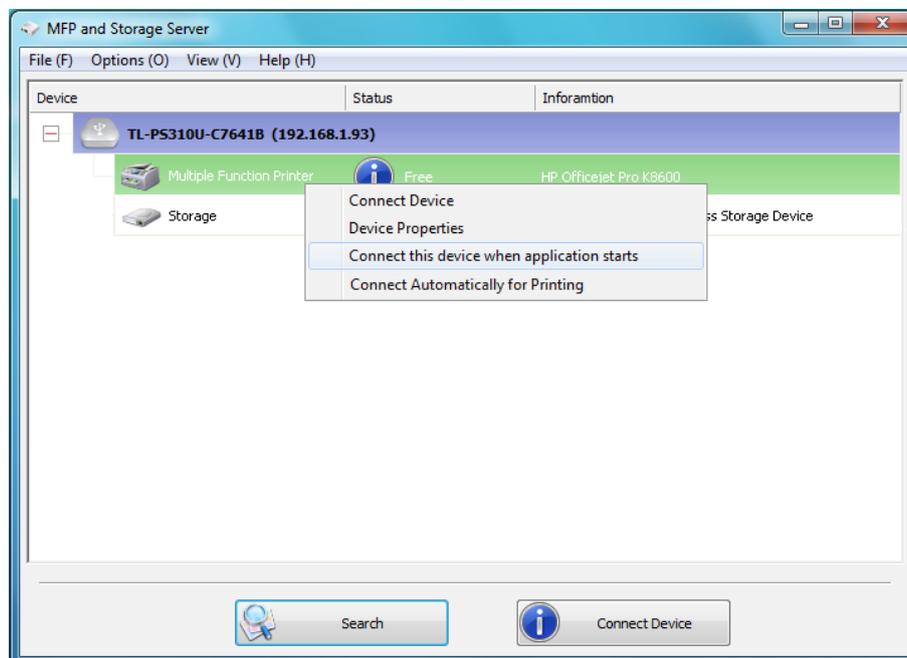


- You will see the device driver is installing and the status will be shown at the bottom right corner on your system tray. The message shown below will disappear once the driver has been installed. After the installation is completed, the USB device will become available as if it were directly connected to your computer.

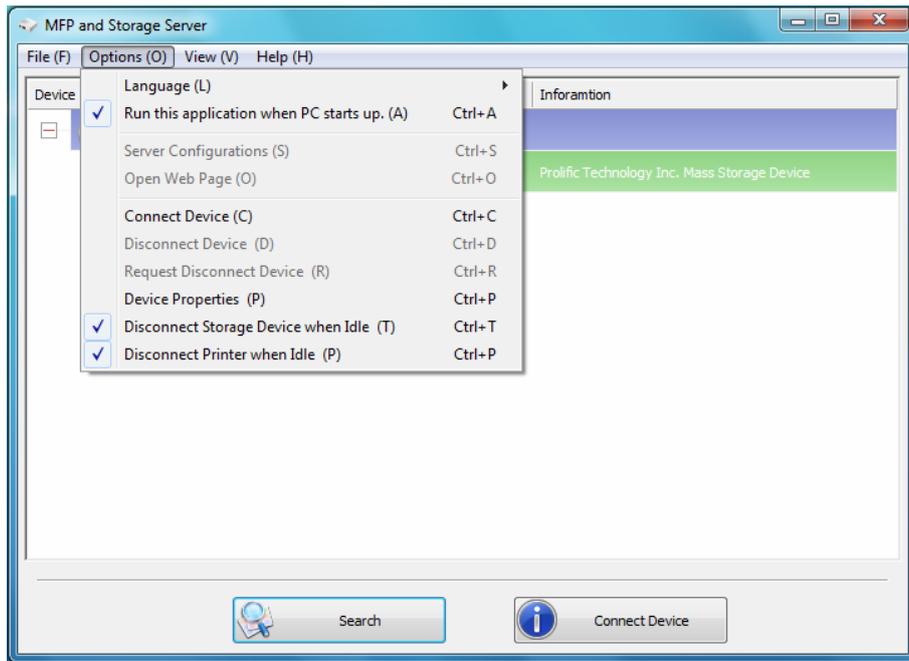


2.2.2 Setting up Auto Connection/Auto Disconnection

1. Right-click on the device that you want to set up auto connection feature.
2. From the pop-up shortcut menu, you can:
 - Select the **Connect this device when application starts** option so that the device will be connected automatically when the system starts.
 - Select the **Connect Automatically for Printing** option so that the printer will be connected automatically when it is assigned for print task.



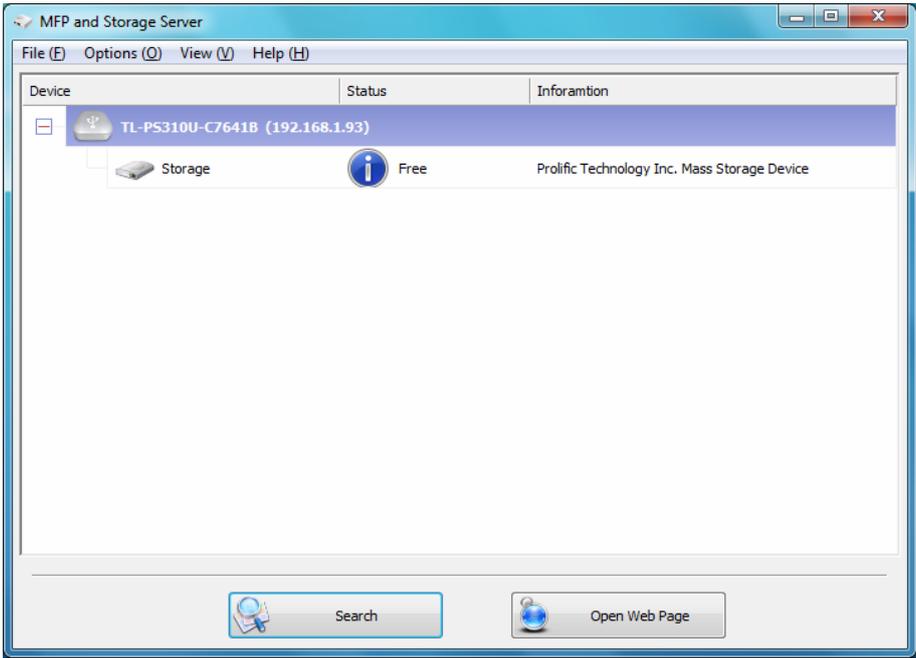
3. Click **Option** and then you can:
 - Select the **Disconnect Storage Device When Idle** option so that the storage device will be disconnected automatically when the system is idle.
 - Select the **Disconnect Printer When Idle** option so that the printer will be disconnected automatically when the system is idle.



Chapter 3 WEB Management Interface

3.1 For Windows 2000/XP and Windows 7 Users

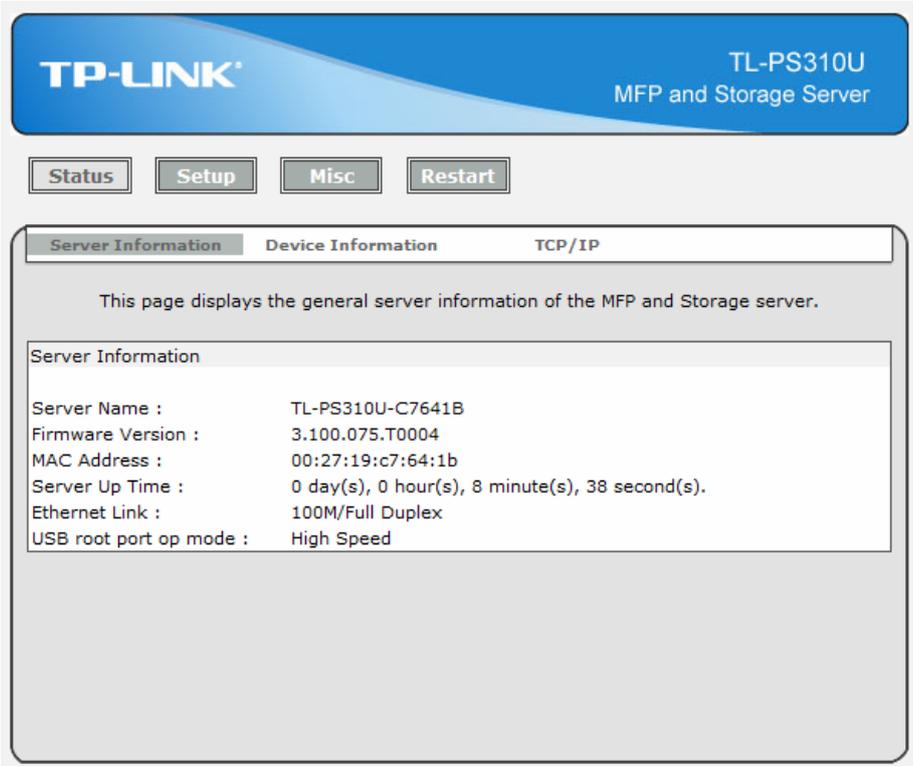
To Access WEB management interface in Windows 2000/XP or Windows 7, in the MFP and Storage Server setup utility, select and double-click the “TL-PS310U-C7641B” item, the operating system will open the browser automatically and load the management webpage. Here we take Windows 7 operating system for example.



3.2 WEB Page Description

Status:

- **Server Information:** Displays the server information of the MFP and Storage Server.



- **Device Information:** Displays the information of the connected USB device(s).

The screenshot displays the web interface for a TP-LINK TL-PS310U MFP and Storage Server. At the top, the TP-LINK logo is on the left, and the model name and device type are on the right. Below the header are four navigation buttons: Status, Setup, Misc, and Restart. The main content area has three tabs: Server Information, Device Information (which is selected), and TCP/IP. A descriptive paragraph explains that the page shows information for currently connected USB devices. There are four sections, each for a device, with the following details:

Device Information	Value
Device Name :	Prolific Technology Inc. Mass Storage Device
Link Status :	Online
Device Status :	Ready
Current User :	
User's IP :	0.0.0.0
USB op mode :	High Speed

Device Information	Value
Device Name :	
Link Status :	
Device Status :	
Current User :	
User's IP :	0.0.0.0
USB op mode :	High Speed

Device Information	Value
Device Name :	
Link Status :	
Device Status :	
Current User :	
User's IP :	0.0.0.0
USB op mode :	High Speed

Device Information	Value
Device Name :	
Link Status :	
Device Status :	
Current User :	
User's IP :	0.0.0.0
USB op mode :	High Speed

- **TCP/IP:** Displays the current TCP/IP settings of the MFP and Storage server.

The screenshot shows the web interface for the TP-LINK TL-PS310U MFP and Storage Server. At the top, there is a blue header with the TP-LINK logo on the left and the model name 'TL-PS310U MFP and Storage Server' on the right. Below the header are four buttons: 'Status', 'Setup', 'Misc', and 'Restart'. The main content area has three tabs: 'Server Information', 'Device Information', and 'TCP/IP', with 'TCP/IP' being the active tab. Below the tabs, a message states: 'This page displays the current TCP/IP settings of the MFP and Storage server.' Underneath this is a table titled 'TCP/IP Settings' with the following data:

TCP/IP Settings	
Use DHCP/BOOTP:	Disable
IP Address:	192.168.1.93
Subnet Mask:	255.255.255.0

Setup:

- **Server Settings:** You can add or change any existing password on the MFP and Storage Server in this screen. By default, the MFP and Storage Server does not come with a default password.

The screenshot shows the 'Server Settings' page in the web interface. The header and navigation buttons are the same as in the previous screenshot. The 'Server Settings' tab is active. A message states: 'This setup page allows you to configure general system settings of the MFP and Storage server.' Below this is a form with the following fields:

- Server Name :** A text input field containing 'TL-PS310U-C7641B'.
- Administrator's Password** section:
 - Current Password :** A text input field with a red note 'Must provide If Available' to its right.
 - Modify password**
 - New Password :** A text input field.
 - Confirm New Password :** A text input field.

At the bottom of the form is a 'Save & Restart' button.

- **TCP/IP:** You can change the TCP/IP settings according to your network specification. If you would like to give the MFP and Storage Server a static IP address, you will need to Disable DHCP in the DHCP Setting field. Once DHCP is disabled, enter the desired IP address on the IP address field along with the subnet mask, and then click **Save & Restart** to save your changes. Please note that if the MFP and Storage Server has a set password, you will need to enter it into the password field.

The screenshot displays the web interface for the TP-LINK TL-PS310U MFP and Storage Server. At the top, the TP-LINK logo is on the left, and the model name 'TL-PS310U MFP and Storage Server' is on the right. Below the header are four navigation buttons: 'Status', 'Setup', 'Misc', and 'Restart'. The 'Setup' button is selected, leading to the 'Server Settings' page, where the 'TCP/IP' tab is active. A descriptive text states: 'This setup page allows you to configure TCP/IP settings of the MFP and Storage server.' The 'TCP/IP Settings' section contains a 'DHCP Setting' dropdown menu set to 'Disable'. Below this are input fields for 'IP Address' (192, .168, .1, .93) and 'Subnet Mask' (255, .255, .255, .0). A 'Confirm Password' section has a 'Password' field with a red note 'Must provide If Available'. At the bottom is a 'Save & Restart' button.

Misc:

- **Factory Default:** This screen allows you to restore the MFP and Storage Server to its factory default. Please note that if the MFP and Storage Server has a set password, you will need to enter it into the password field.

The screenshot shows the TP-LINK TL-PS310U MFP and Storage Server web interface. At the top, there is a blue header with the TP-LINK logo on the left and the model name 'TL-PS310U MFP and Storage Server' on the right. Below the header, there are four navigation buttons: 'Status', 'Setup', 'Misc', and 'Restart'. The 'Misc' button is currently selected, and the 'Factory Default' sub-tab is active. The main content area contains two bullet points: 'Click **Factory Default** then **OK** to reload all default settings in the MFP and Storage server. Warning! All current settings will be erased.' and 'Click **Firmware Upgrade** to browse to your firmware directory and reload the MFP and Storage server with new firmware.' Below the text is a 'Confirm Password' section with a 'Password :' label, an input field, and a red note 'Must provide If Available'. An 'OK' button is centered at the bottom of the form.

- **Firmware Upgrade:** This screen allows you to upload the latest firmware on the MFP and Storage Server. Click on **Browse** to specify the firmware location on your computer. Once the location path of firmware has been set, click **Firmware Upgrade** to begin the update. Please note that if the MFP and Storage Server has a set password, you will need to enter it into the password field.

The screenshot shows the TP-LINK TL-PS310U MFP and Storage Server web interface. At the top, there is a blue header with the TP-LINK logo on the left and the model name 'TL-PS310U MFP and Storage Server' on the right. Below the header, there are four navigation buttons: 'Status', 'Setup', 'Misc', and 'Restart'. The 'Misc' button is currently selected, and the 'Firmware Upgrade' sub-tab is active. The main content area contains a note: 'This page allows you to upgrade the firmware of the MFP and Storage server. Note: please make sure the firmware is correct before you proceed. If you do not know which firmware file you should use, please contact your local dealer for technical support.' Below the note is a 'Firmware Upgrade' section with a 'Select Firmware Directory and File:' label, an input field, and a 'Browse...' button. Below this is a 'Confirm Password' section with a 'Password :' label, an input field, and a red note 'Must provide If Available'. A 'Firmware Upgrade' button is centered at the bottom of the form.

Restart:

This screen allows you to reboot the MFP and Storage Server. Please note that if the MFP and Storage Server has a set password, you will need to enter it into the password field.

The screenshot shows the web interface for a TP-LINK TL-PS310U MFP and Storage Server. At the top, there is a blue header with the TP-LINK logo on the left and the model name 'TL-PS310U MFP and Storage Server' on the right. Below the header is a navigation bar with four buttons: 'Status', 'Setup', 'Misc', and 'Restart'. The 'Restart' button is highlighted. The main content area has a light gray background and contains the following text: 'This page allows you to restart the MFP and Storage server.' followed by the heading 'Restart The MFP and Storage Server' in red. Below this is the question 'Do you want to save settings and restart the MFP and Storage server now ?'. A 'Confirm Password' section contains a 'Password :' label, a text input field, and the text 'Must provide If Available' in red. At the bottom center of the form is an 'OK' button.

Chapter 4 Troubleshooting

4.1 Frequently Asked Questions

1. Why can't I connect my USB device to my computer through MFP and Storage Server?

- Make sure the USB device functions normally when you plug it into your computer via USB cable.
- If the USB device, such as USB printer or multi-functional printer, requires a driver, please make sure you have installed it on the computer you wish to use. Rebooting your computer after installing USB device driver might also help.
- Although the MFP and Storage Server could work with a very wide spectrum of USB devices, it still has limited support on some USB devices. Please refer to the supported device list for details.

2. Why can't I see any servers on my MFP and Storage Server listing window after installing it?

- Please make sure that all of your MFP and Storage Servers are correctly connected to your network. Also, certain anti-virus programs come with firewall functions that might prevent the MFP and Storage Server setup utility from accessing the network. Please make sure the MFP and Storage Server setup utility is not being blocked by your anti-virus program.

3. The connected USB devices are disconnected after my computer wakes up from the computer stand-by?

- Connected devices will automatically be released for other network users in case you forget to release them. Please reconnect the USB devices again after your computer "wake up".