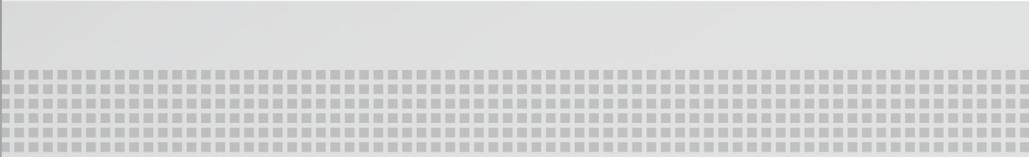


SharePort™ Network USB Utility



User Manual

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D-Link® SharePort

Introduction

The D-Link SharePort technology will allow you to connect a multi-function printer (MFP), scanner, or USB storage device to your router and share the device with multiple computers*. Only these devices will be supported.

Install the SharePort Utility on the computer or computers that you would like to use the USB device(s) with. Remember that the computer(s) will also need the device drivers for the USB devices connected to the router.

** One user can be connected to a USB device at a time. SharePort has a printer autoconnect function to make sharing printers easy among multiple users (Please refer to **How to Use a Printer** on page 31) as well as other features for sharing devices (Please refer to **How to request for disconnect** on page 18).*

System Requirements

- Mac OS X 10.3 - 10.5
- CD-ROM drive

Features

Easy to Use

You only have to select the USB device in the SharePort Utility and click the **Connect** button. The USB device will be available to your computer as if it was directly connected to your computer. When finished using the USB device, click the **Disconnect** button in the SharePort Utility. For details on how to use SharePort Utility, refer to **Using the SharePort Utility** on page 15.

Printer Auto Connection

When you print to a USB printer, SharePort Utility will automatically connect your computer to the printer. When the print job is complete, SharePort Utility will disconnect your computer from the USB printer. Thus, you will not have to manually connect/disconnect to/from the USB printer using SharePort Utility. For details on printer auto connection, refer to **How to Use a Printer** on page 31.

Allows Control from the Dock

The menu that pops up from the application icon in the Dock will allow you to connect/disconnect to/from USB devices without displaying SharePort Utility's main window. For details on how to control from the Dock, refer to **SharePort Utility and the Dock** on page 34.

Send a Remote Message to Another User to Request for Disconnect

When you are sharing a USB device with several users and one of them occupies the USB device for a long time, you can request to the user to disconnect the device by sending a remote message. If the user accepts the disconnect request, the right of use is automatically passed down to you, so that you can use the USB device. For details on the disconnect request message, refer to **How to request for disconnect** on page 18.

Operating Settings for Each USB Device

The operational settings such as Start designated application when connected or Automatically connect this device when it is available can be configured for each USB device. For details on the operation settings for each USB device, refer to **USB Device Properties** on page 21.

Please refer to **SharePort Utility Option Settings** for startup condition and display settings on page 25.

Installation

Step 1

Insert the D-Link CD into your CD drive. Double-click the CD-ROM icon  on the desktop and then Cosetup icon.

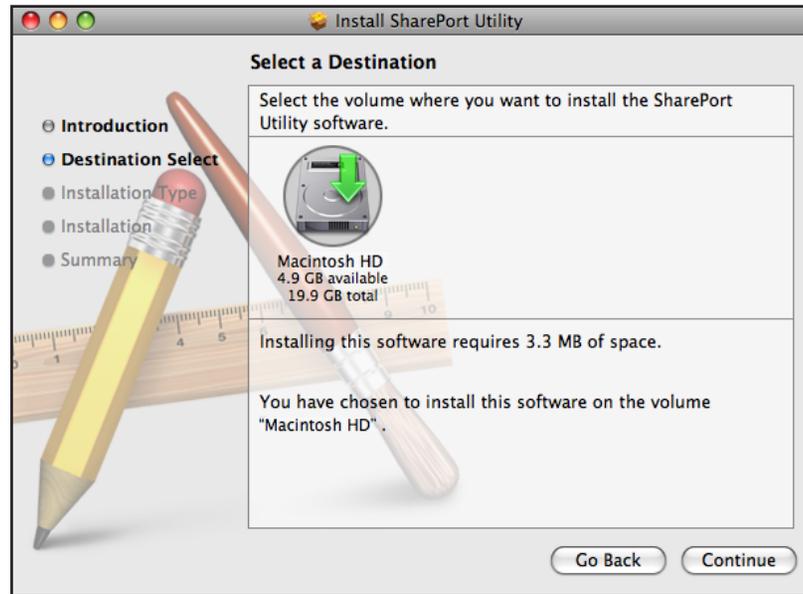
Step 2

The SharePort Utility Install screen is displayed. Click **Continue**.



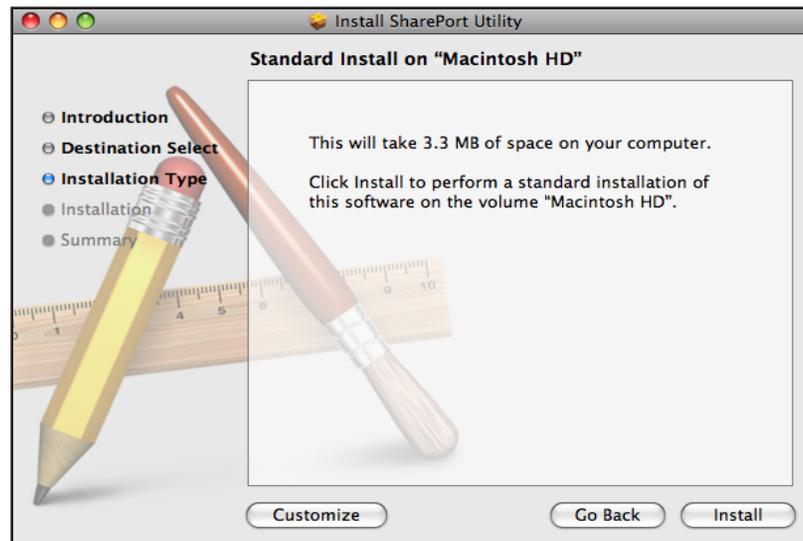
Step 3

Select a destination volume (In the case below, select Macintosh HD) and click **Continue**.



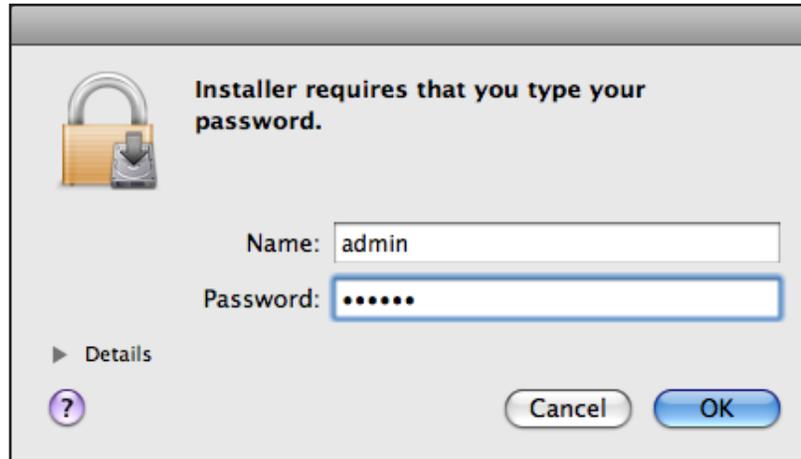
Step 4

Click **Install**.



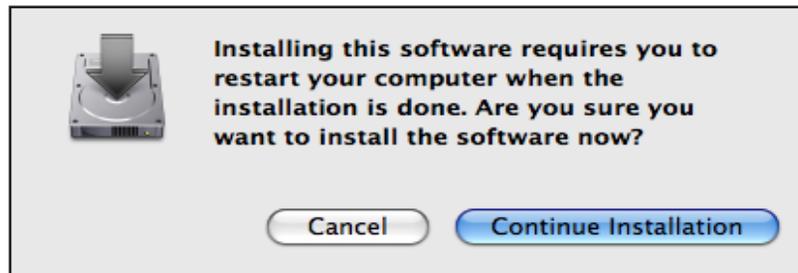
Step 5

Administrator authentication screen is displayed. Enter Name and Password, then click **OK**.



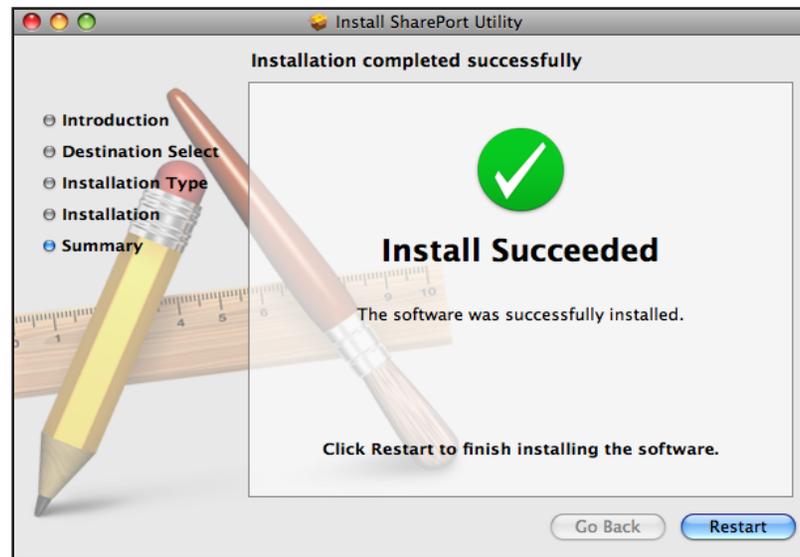
Step 6

After confirmation message appears, close all other applications running on the system and click **Continue Installation**.



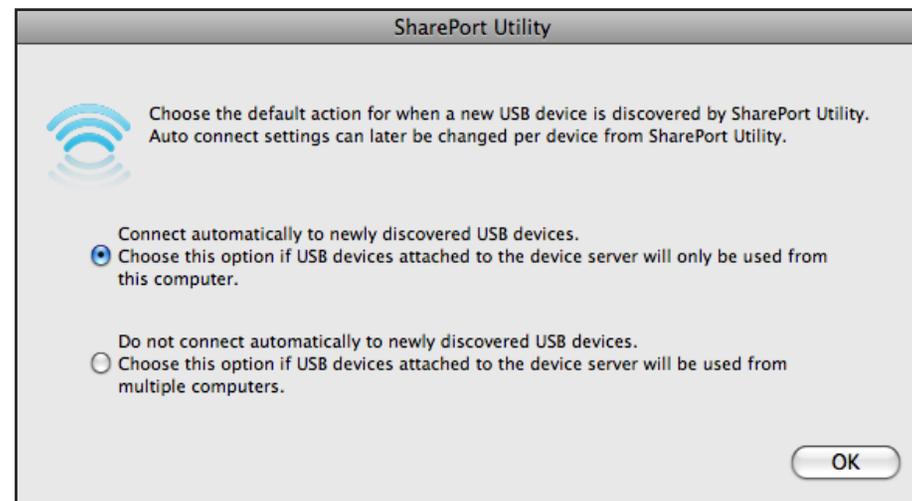
Step 7

The installation is completed. Click **Restart** to restart the computer.



Step 8

When SharePort Utility is started for the first time and before its main window is displayed, a screen to select the default setting for auto connect is displayed. Select the setting appropriate for your environment and click **OK**. (This screen is displayed only for the first time and will not be displayed the next time SharePort Utility is started.)



SharePort Utility

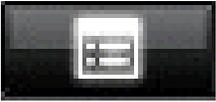
Click the SharePort icon  in the dock or double-click **Macintosh HD > Applications > SharePort Utility** to launch the program. The SharePort Utility's main window appears. The USB devices running on the network are displayed in the device list.

Utility Overview



Utility Buttons

The following buttons are used to control the USB devices.

	Connect Button	Connects your computer to the USB device that you have selected in the USB device list. You can also connect to the USB device by double-clicking the USB device in the list.
	Disconnect Button	Disconnects your computer from the USB device that you have selected in the USB device list. You can also disconnect from the USB device by double-clicking the USB device in the list.
	Properties Button	Shows the properties of the USB device that you have selected in the USB device list.
	Request Use Button	Requests to the user who is currently using the USB device that you have selected in the USB device list to disconnect from it by sending a remote message.

The following buttons are used to display the SharePoint Utility optional settings or general information windows.

	Option Button	Displays the SharePoint Utility optional settings window.
	Help Button	Displays the following windows or websites: <ul style="list-style-type: none"> • SharePoint Utility Online Help • Customer Support Website • Version information
	Refresh Button	Refreshes the status of all devices in the USB device list.

USB Device Icons

SharePort Utility uses a different icon for each USB device as listed below:

	Multifunction devices with printing capability
	Single function printers
	Imaging devices (scanners)
	Storage devices (hard disks, USB memory, etc)
	Audio devices
	Interface class devices (mice, keyboards, etc)
	Video devices (isochronous devices, Web cameras, etc)
	Other devices

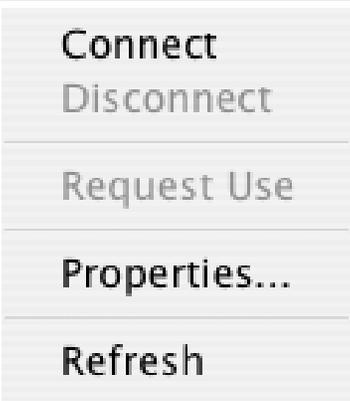
Status Icons

SharePort Utility uses the following icons to show the status of USB devices connected to a router:

	USB device is available.
	USB device is connected to your computer.
	USB device is being used by someone else.
	Updating the USB device status.
	The USB device or USB router is turned off, or the USB device is not connected to the router.
	The USB router is not detected.

Context (control + click) menu

When a USB device is clicked on the USB device list while holding down the control key, the following menu is displayed.

	Connect	Connects to the selected USB device.
	Disconnect	Disconnects from the selected USB device.
	Request Use	Requests to the user who is currently using the USB device that you have selected in the USB device list to disconnect from it.
	Properties...	Displays the properties window of the selected USB device.
	Refresh	Refreshes the USB device status in the USB device list.

Using the SharePort Utility

How to connect to a USB device

Note: When SharePort Utility is started for the first time and before its main window is displayed, a screen to select the default setting for auto connect is displayed. Select the setting appropriate for your environment and click **OK**.

1. Select the USB device in SharePort Utility's main window and click the **Connect**  button.



2. When successfully connected to the USB device, your computer will detect it and the USB device will become ready to use. Once ready, the status icon will change to “”. Each device can be connected to one computer at the same time. When the USB device is in use by another computer, the status icon “” is displayed indicating the USB device cannot be connected.
3. When finished using the USB device, click the **Disconnect**  button.

Note: Do not disconnect the USB cable or click **Disconnect** while the USB device is being accessed.

Other ways to connect to a USB device

- Double-click the USB device in SharePort Utility's main window.
- Select the USB device and click the **Connect** button in the main window. If you select two or more USB devices, you can connect to them at once.

How to disconnect a USB device

- Double-click the USB device in SharePort Utility's main window.
- Select the USB device and click the **Disconnect** button in the main window.

If a USB device is shared among several users, make sure that each user disconnects from the USB device after they have finished using it. Otherwise, other users will not be able to connect to the USB device.

Note: *If you use a printer or USB device with a printing capability, you can utilize the printer auto-connect feature to skip the Connect/Disconnect process. For details, refer to **How to Use a Printer**.*

*It is impossible to connect to a USB device that is in use by another user. SharePort Utility has a feature allowing you to ask a user to disconnect from the USB device that you wish to use by sending a remote message, so that the right of use is passed down to you. For details, refer to **How to Request for Disconnect**.*

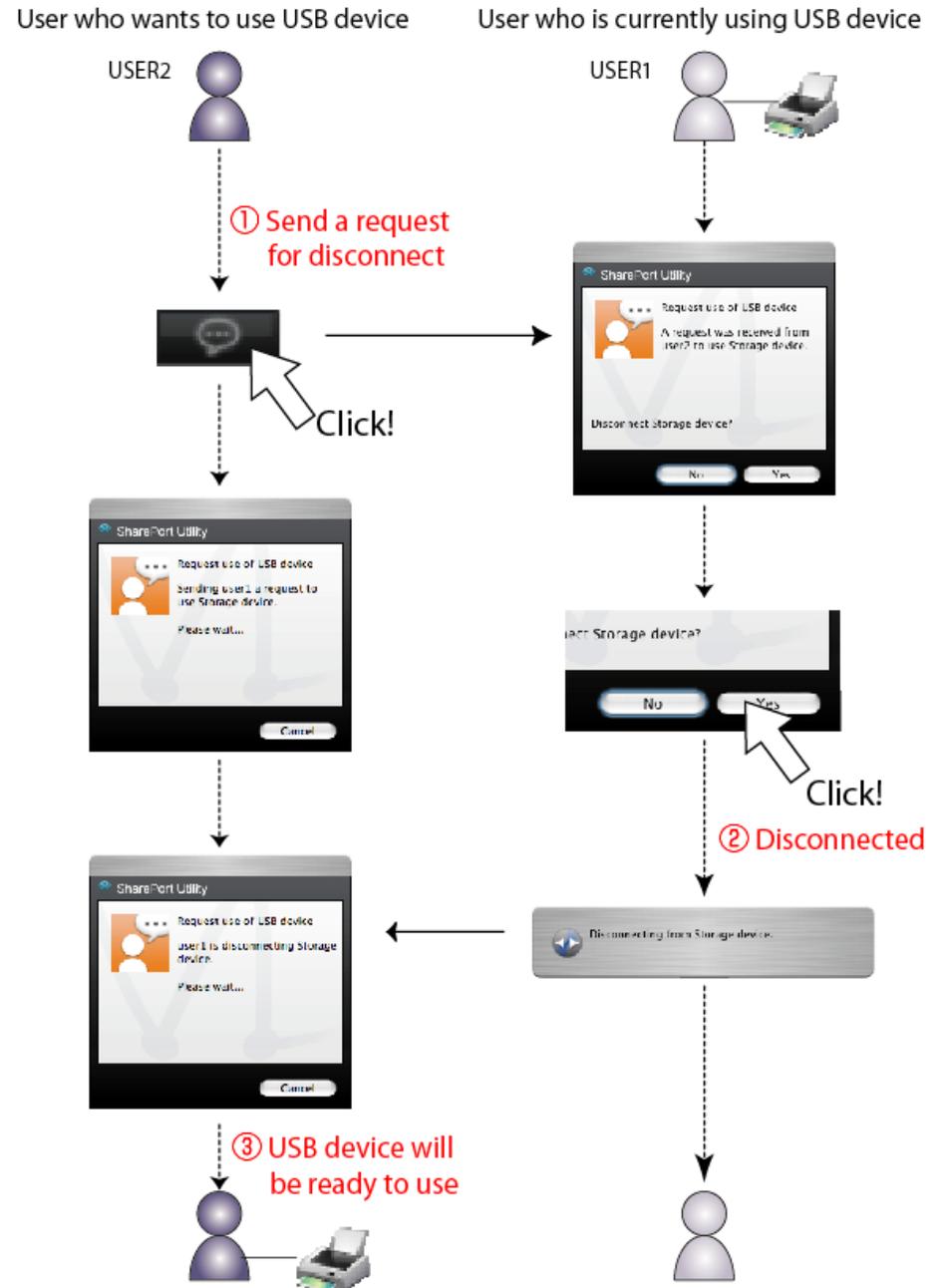
*If you will be the only one using a particular USB device, it is recommended to set SharePort Utility to automatically connect to that USB device when it is detected. For details, refer to **USB Device Operational Settings**.*

*The SharePort Utility has a feature allowing you to automatically start a designated application when a USB device is connected. For details, refer to **USB Device Operational Settings**.*

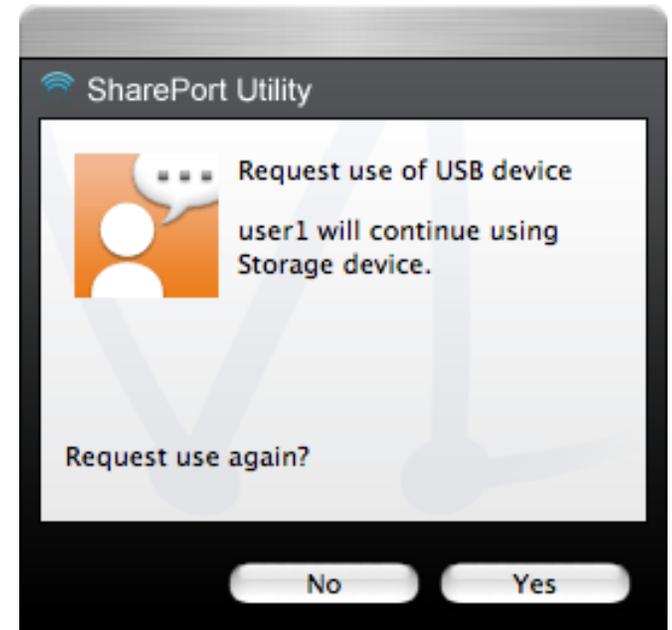
How to request for disconnect

The SharePort Utility has a feature allowing you to request a user to disconnect from the USB device that you wish to connect to by sending a remote message so that the right of use is passed down to you. This function is called **Request Use**.

Select the USB device that you wish to use on the SharePort Utility's main window and click the **Request Use** button. A disconnect request message will be displayed on the computer of the user who is currently using the USB device that you have selected. If the user accepts the disconnect request, your computer will be connected to the USB device.



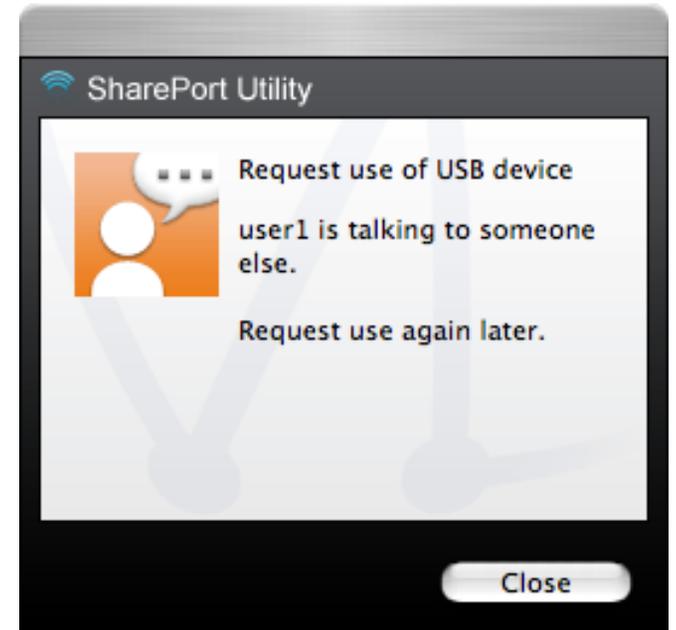
The disconnect request could be denied. If the disconnect request is denied, the message on the right will be displayed on the computer from which the disconnect request was sent.



If no response is returned, the message on the right will be displayed.



Only one disconnect request can be sent at a time. If several users send disconnect requests, priority is given to the first user. For the other users, the message on the right will be displayed. In such a case, please try again a while later.



USB Device Properties

This section explains how to configure the operational settings for each USB device connected to a router with SharePort Utility.

Change the USB device name

In the SharePort Utility's main window, the default name originally registered to the USB device is shown in the USB device list. The USB device name can be changed from the **General** tab in the properties dialog.

How to open and use the properties dialog:

1. Select the USB device in SharePort Utility's main window and click the **Properties** button.
2. In the **General** tab, you can change the USB device name to be displayed in SharePort Utility's main window.
3. Click **OK** to change the name.

Note: *Even if the device name is changed, the default name originally registered to the device is not changed. Also, this change takes effect only for the computer from which you have changed the device name and not for other computers.*



Automatically connect to a USB device when it is detected

SharePort Utility can automatically connect to a USB device when it is detected. If you are the only person that will use a particular USB device, you can utilize the auto-connect function to automatically connect to the USB device without clicking the **Connect** button on SharePort Utility's main window.

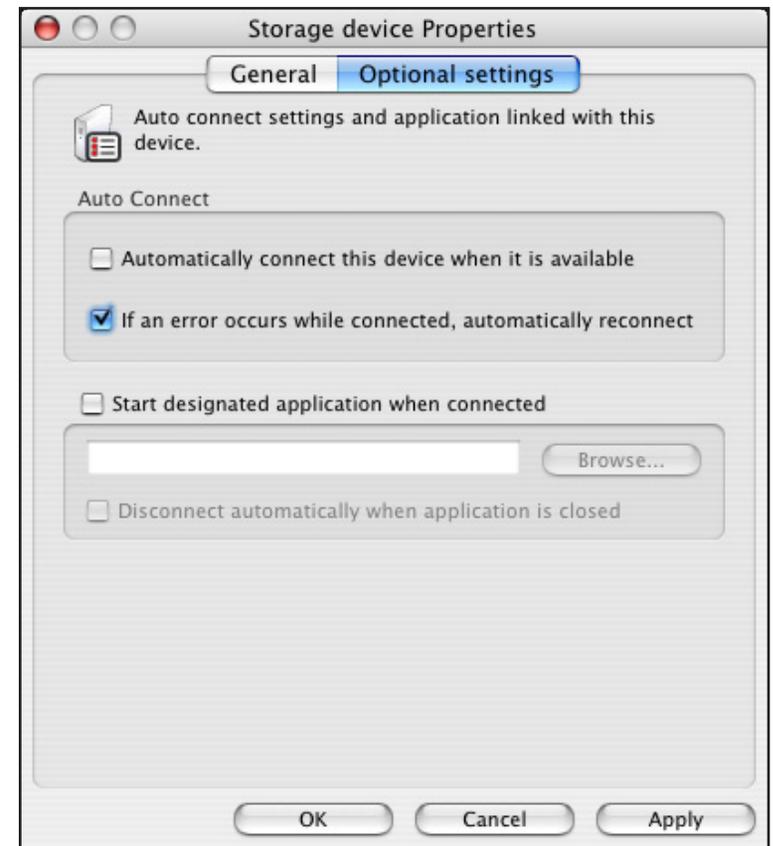
The auto-connect function can be enabled from the **Optional Settings** tab in the properties dialog.

How to open and use the properties dialog:

1. Select the USB device in SharePort Utility's main window and click the **Properties** button.
2. The **General** tab is displayed. Click the **Optional Settings** tab.
3. Check the **Automatically connect this device when it is available** box.

If you wish to connect to all USB devices automatically, check the **Automatically connect newly discovered USB devices** box. For details, refer to **SharePort Utility Optional Settings**.

4. Click **OK** to save your settings.



Automatically reconnect to a USB device when disconnected abnormally

SharePort Utility can automatically reconnect to a USB device when the connection between the USB device and your computer is lost due to a communication error.

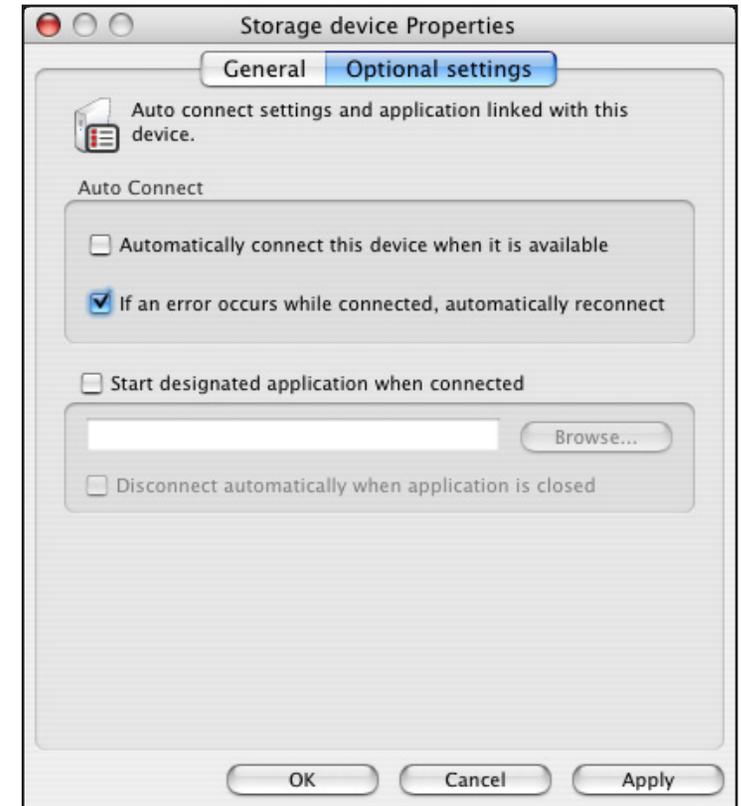
The auto-reconnect option for USB devices that have been abnormally disconnected can be enabled from the **Optional Settings** tab in the properties dialog. The auto-reconnect setting will take effect the next time you connect to the USB device.

How to open and use the properties dialog:

1. Select the USB device in SharePort Utility's main window and click the **Properties** button.
2. The **General** tab is displayed. Click the **Optional Settings** tab.
3. Check the **If an error occurs while connected, automatically reconnect** box.
4. Click **OK** to save your settings.

Note: *The auto-reconnect feature may not work properly depending on the USB device or computer's status during the error. In such a case, reboot the computer, USB device and router.*

This option is only for recovery purposes in case of an error. Please do not unplug the USB device intentionally while it is connected to your computer via SharePort Utility.



Automatically start a designated application when a USB device is connected

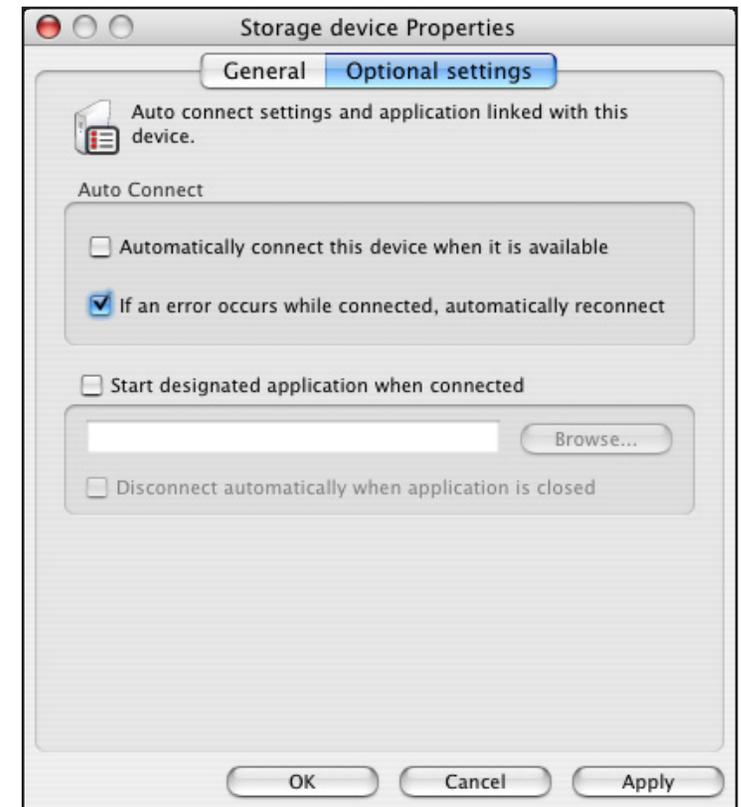
SharePort Utility can automatically start a designated application when a USB device is connected to your computer. The auto-application startup feature can be enabled by registering the application that you wish to use with a particular USB device (e.g. image reading software for a scanner, music management software for a music player, backup software for storage media, etc) to SharePort Utility. After an application is registered to SharePort Utility, it will automatically start when the USB device is connected to your computer via SharePort Utility. Thus, you will not have to manually start the application.

The auto-application startup feature can be enabled from the **Optional Settings** tab in the properties dialog.

How to open and use the properties dialog:

1. Select the USB device in SharePort Utility's main window and click the **Properties** button.
2. The **General** tab is displayed. Click the **Optional Settings** tab.
3. Check the **Start designated application when connected** box.
4. Click **Browse** to select the application you would like to launch.
5. Click **OK** to save your settings.

Note: If you check the **Disconnect automatically when application is closed** check box, the USB device will be automatically disconnected when the application is closed.



SharePort Utility Option Settings

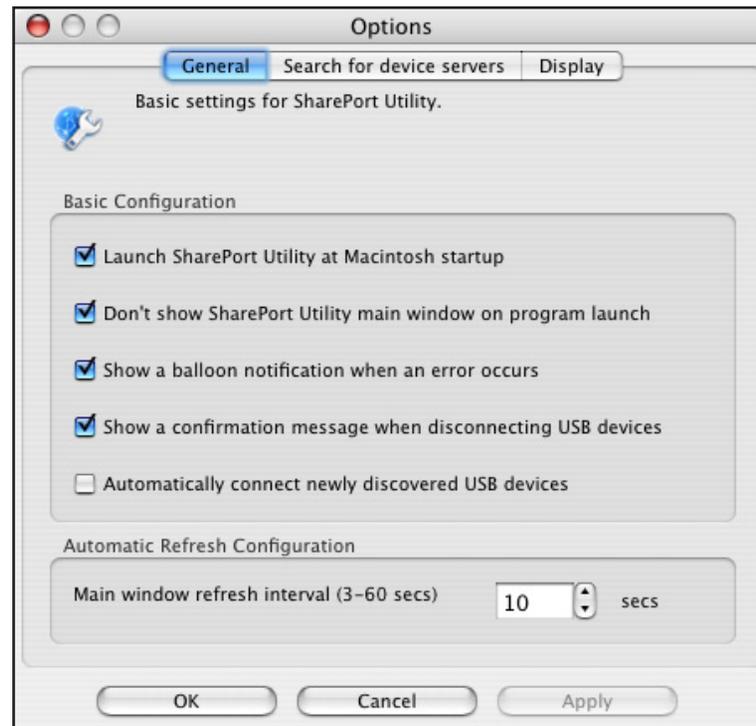
This section explains the SharePort Utility optional settings. SharePort Utility general settings such as startup and communication settings can be configured.

Click the **Option** button  on SharePort Utility's main window. The options dialog will be displayed.

The options dialog provides the following settings. Click **OK** when you have finished configuring the settings.

General

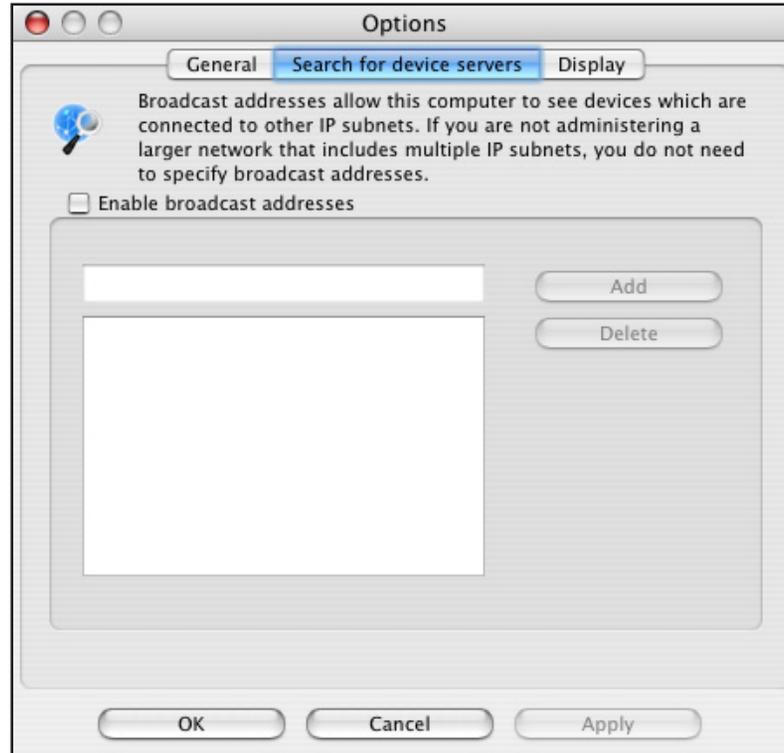
Basic operational settings can be configured.



Option	Function	Default Setting
Launch SharePort Utility at Macintosh startup	Adds SharePort Utility to the Login Items. When added to the Login Items, SharePort Utility will automatically start at Mac OS login.	On
Don't show SharePort Utility main window on program launch	Starts SharePort Utility in the Dock without displaying its main window.	On
Show a balloon notification when an error occurs	Notifies you of a USB device error by displaying a balloon message from SharePort Utility's main window. When SharePort Utility's main window is not active, the Dock icon bounces up and down to notify you of the error.	On
Show a confirmation message when disconnecting USB devices	Displays a confirmation message before disconnecting a USB device via SharePort Utility.	On
Automatically connect newly discovered USB devices	Automatically connects to a USB device when it is detected on the network. This option is convenient since you can connect to each USB device automatically when it is plugged into the device server. However, remember that this option is for exclusive use of USB devices. As long as you are connected to a USB device, other people cannot use it.	The default setting depends on what you selected when starting SharePort Utility for the first time.
Main window refresh interval	Sets the refresh interval for the connected USB device status.	10 Seconds

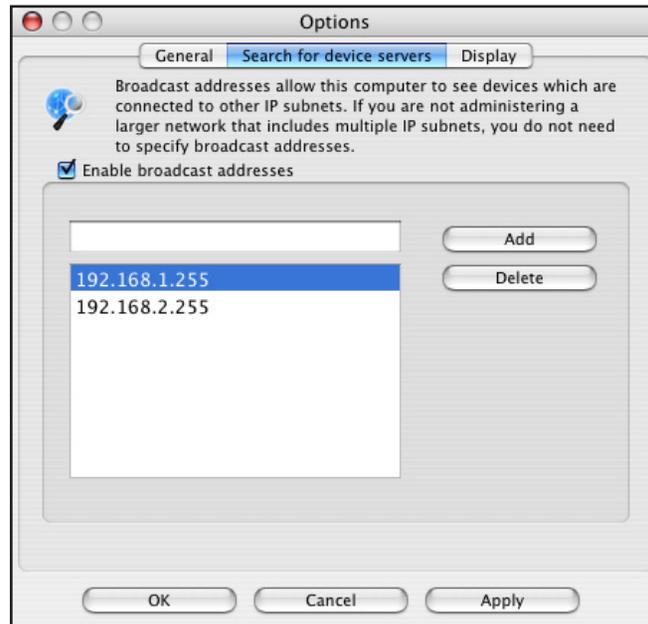
Search for device servers

The broadcast address can be configured.



Option	Function
Enable broadcast addresses	Registers the broadcast addresses used to search for device servers over the network router. If no broadcast addresses are specified, only device servers in your local segment will be searched. To register a broadcast address, check Enable broadcast addresses, enter the broadcast address into the address field and click the Add button. To remove an address from the list, select it and click the Delete button.

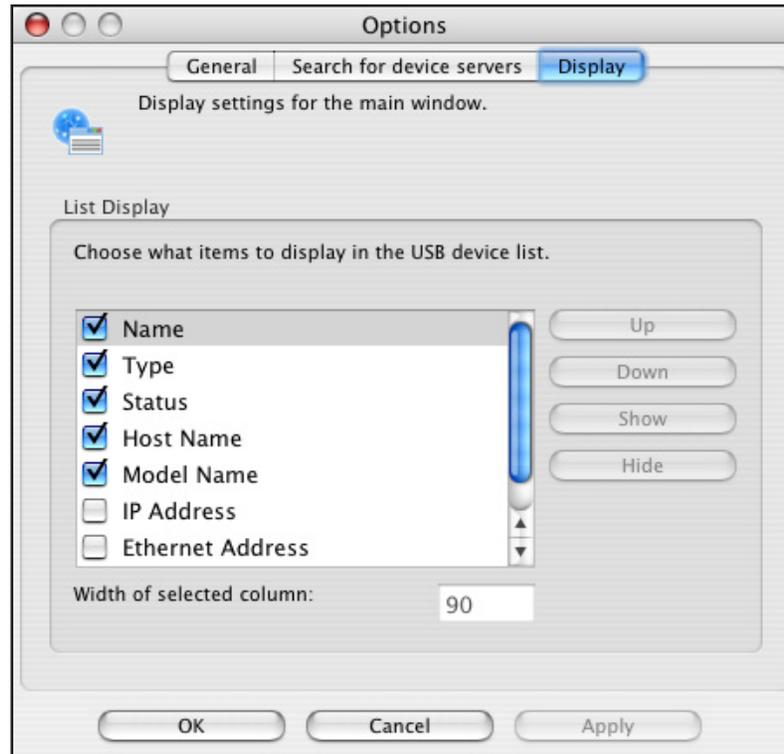
For example, to register “192.168.1.xxx” (Subnet Mask:255.255.255.0), enter “192.168.1.255” into the address field. In the sample screen below, “192.168.1.255” and “192.168.2.255” are registered to include “192.168.1.xxx” and “192.168.2.xxx” (Subnet Mask:255.255.255.0) addresses for the device server search.



For which broadcast addresses to use for the device server search, please ask your network administrator.

Display

The SharePort Utility display settings can be configured.



Option	Function	Default Setting
Name	Displays the name of USB devices connected to the device server. The USB device name can be changed. For details, refer to USB Device Operational Settings .	On
Type	Displays the type of USB devices connected to the device server.	On
Status	Displays the status of USB devices connected to the device server.	On
Host Name	Display the host name of the device server.	On
Model Name	Displays the model name of the device server.	On
IP Address	Displays the IP Address of the device server.	Off
Ethernet Address	Displays the Ethernet Address of the device server. The Ethernet Address is the 12-digit number found on the side or backside of the device server.	Off
Auto Connect	Displays the current status of the USB device's auto-connect settings. Either "Enabled" or "Disabled" is displayed.	Off
Width of selected column:	Changes the width of each column heading at the top of the USB device list. * The widths of the Name and Type columns cannot be changed.	-

Note: The Name, Type, and Status check boxes cannot be cleared.

How to Use a Printer

This section explains how to use a USB printer (or a USB device with printing capability) connected to a router using SharePort Utility.

SharePort Utility has a feature that detects print jobs and then automatically connects to, prints to and disconnects from the printer (or USB device with printing capability) if it is connected to a router.

You will not have to click the **Connect** button in the SharePort Utility's main window before you print a job.

The printer auto-connect function may not be available for some USB devices with printing capability. In such cases, please connect/disconnect to/from the USB device manually by clicking the Connect/Disconnect buttons in SharePort Utility.

Note: *To use the printer auto-connect function, SharePort Utility must be running. Please be sure to start the SharePort Utility before you print a job.*

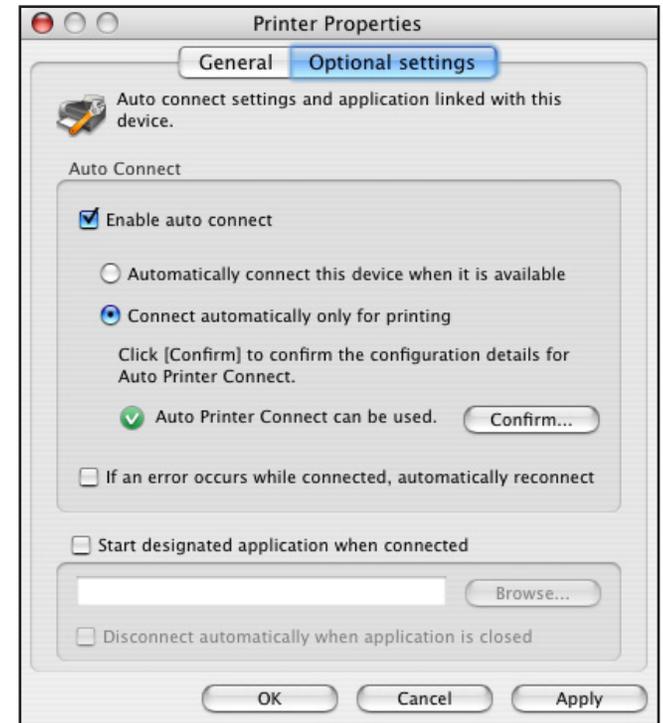
*For those who print frequently, it is recommended to set SharePort Utility to automatically start at computer startup. Click the **Options** button and check the **Launch SharePort Utility at Macintosh startup** box.*

How to enable the printer auto-connect function:

1. Select a printer in SharePort Utility's main window and click the **Properties** button. When the properties dialog is displayed, click the **Optional Settings** tab.
2. Check **Enable auto connect** and then click **Connect automatically only for printing**. This will automatically connect to the USB printer and disconnects from it after the print job is finished. This will allow you to print without worrying about Connect/Disconnect operations.

Note: The *Automatically connect this device when it is available* feature will only automatically connect to the USB device when it is detected.

3. Click **OK**.

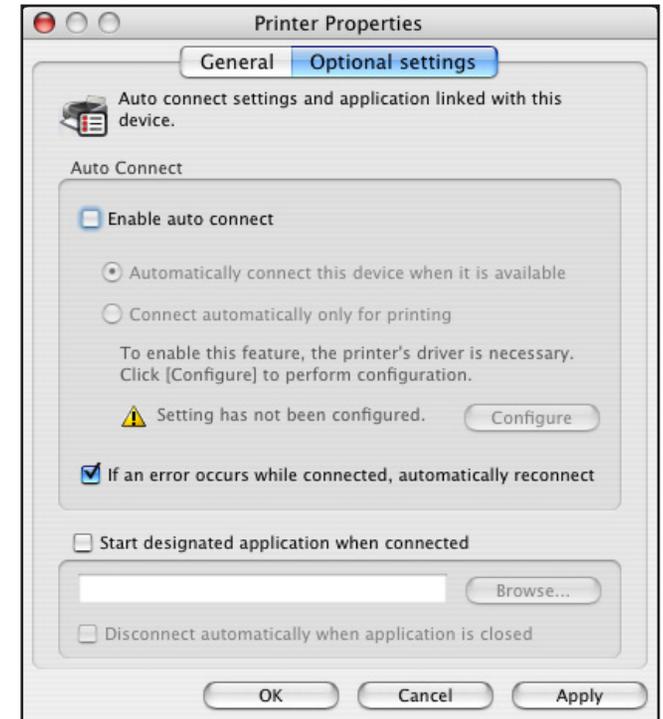


If the USB device driver is not installed on your computer or the USB device has never been connected to your computer via SharePort Utility, the following window is displayed.

To enable the **Connect automatically only for printing** setting, the USB device driver needs to be installed on your computer. Check **Enable auto connect**, select **Connect automatically only for printing** and click the **Configure** button. From the window pops up, select the appropriate USB device driver and click **OK**.

After the driver is installed, the window will be displayed as in the previous page.

If the last part of a job is not printed completely while the printer auto-connect function is active, click the **Confirm** button to open the printer monitoring dialog. Extend the time period in the **Time before disconnecting after print job is sent** field.



The printer auto-connect function has been enabled. All jobs sent to a printer that uses the driver you have installed in the above process will be printed automatically.

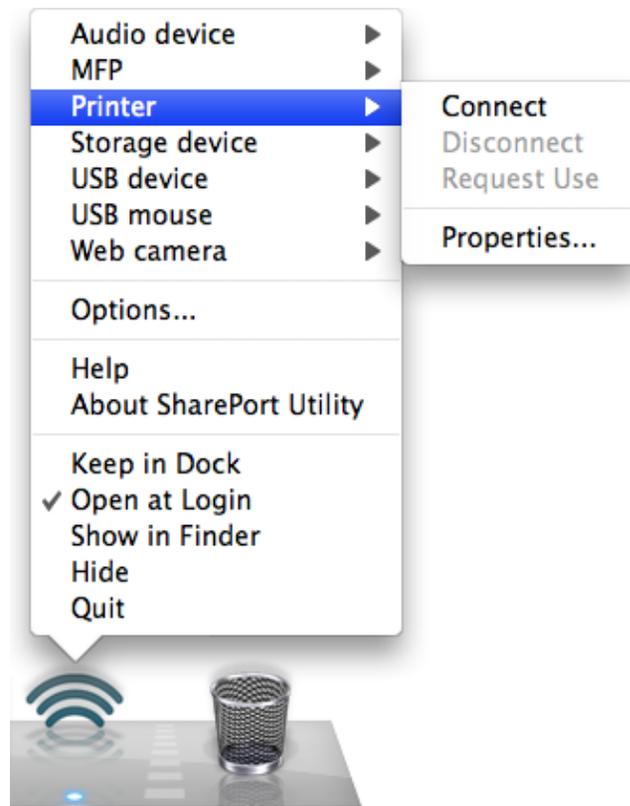
Note: Some printers may show an error message on their printer status monitor after a job is printed. In such cases, close the printer status monitor manually as it has no effect on printing.

SharePort Utility and the Dock

This section explains how to control SharePort Utility from the Dock and the balloon messages displayed from SharePort Utility's main window.

Controlling SharePort Utility from the Dock

Click  in the Dock while holding down the control key. The SharePort Utility menu is displayed as below.



The following buttons are used to control the USB devices:

Connect Disconnect Request Use <hr/> Properties...	Connect	Connects to the selected USB device.
	Disconnect	Disconnects from the selected USB device.
	Request Use	Requests to the user who is currently using the USB device that you have selected in the USB device list to disconnect from it.
	Properties	Displays the properties window of the selected USB device.

Audio device ▶ MFP ▶ Printer ▶ Storage device ▶ USB device ▶ USB mouse ▶ Web camera ▶ <hr/> Options... <hr/> Help About SharePort Utility <hr/> Keep in Dock <input checked="" type="checkbox"/> Open at Login Show in Finder Hide Quit	Options	Opens the options dialog. Each optional setting is available.
	Help	Opens this Online Help.
	About SharePort Utility	Displays the SharePort Utility version.
	Other items such as Keep in Dock, etc. are not always displayed. They may vary depending on the Mac OS version.	

Error Messages

The meanings of the balloon messages that pop out from SharePort Utility's main window are as follows:

There is not enough power supply to the USB device.



The USB device was disconnected abnormally.



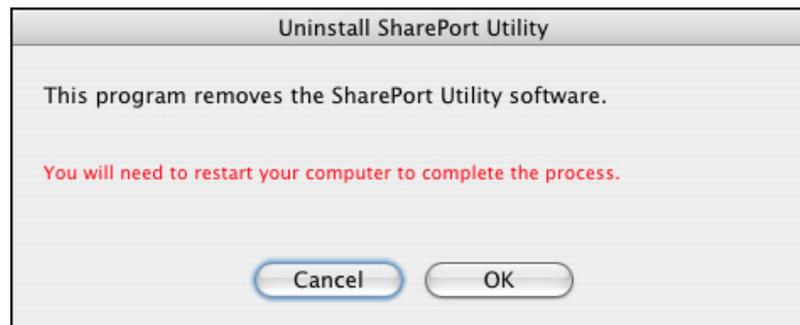
Uninstall the Utility

The SharePort Utility can be uninstalled by using the uninstaller contained in the CD-ROM.

How to uninstall SharePort Utility:

Note: To uninstall SharePort Utility, administrator privilege is required.

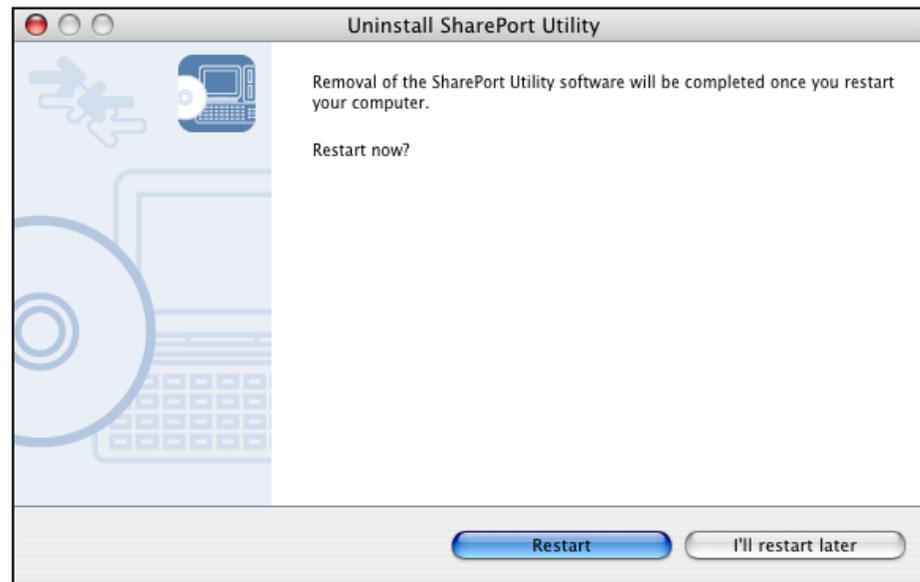
1. Insert the CD-ROM into your computer.
2. The CD-ROM icon appears on your desktop. Double-click the icon, **Uninstall** folder and then **SharePort Utility** Uninstaller.
3. A confirmation message is displayed. Click **OK**.



4. An authentication screen is displayed. Enter Name and Password and click **OK** to begin the uninstallation.



5. When the below window is displayed, click **Restart** to reboot the computer.



The SharePort Utility has been uninstalled.

Troubleshooting

1. USB devices do not show up in SharePort Utility.

If USB devices do not show up in SharePort Utility, the local connection as well as network settings between the router and your computer need be checked.

- **The router or the Ethernet hub or switch may have a problem with its connection, power supply or operation.**
Please check that the LEDs on the router and on the Ethernet Hub (the one to which the router is connected) are lighting properly. If the LEDs are not working properly, replace the AC plug or cable and reboot the USB device.
- **The start-up process of the router may not be finished yet.**
Usually, it takes about 30 seconds for a router to be ready after it is powered on. Please wait until the router becomes ready, and then click **Refresh** button in SharePort Utility again.
- **Security software such as firewalls, etc. may be interrupting communication between your computer and the router.**
SharePort Utility needs to be added to the exception list of your security software. Please refer to the security software documentation for help on adding an application to your exception list. You may also need to open TCP and UDP port 19540 in your security software.
- **An IP address unable to communicate with your computer may be assigned to the router.**
- **The USB devices connected to the router may not be powered on.**
Please check that the LED on the USB device is lit or blinking to see if the USB device is powered on. If the USB device is not powered on, improve the cable connection such as the AC adaptor, etc.

Also, if the connected USB device is a self-powered (bus-powered) device such as an HDD drive, etc, it may require a power supply greater than 500mA, which is the standard power available through a USB interface. In such a case, use the AC adapter that came with the USB device so that enough power is supplied to the device.

- **The USB cable may not be properly connected to router or USB device.**
Please check that the cable is properly plugged in to both the router and the USB device. If you have a spare USB cable, replace the cable.
- **The router may not support the USB device.**
The router does not support USB devices which operate using isochronous transfer. Please confirm that the connected USB device is not an isochronous device. For details on the USB device's specification, please contact its manufacturer.

2. An error occurs when I connect to a USB device using SharePort Utility.

When a USB device is properly displayed in SharePort Utility but an error occurs when it is connected, the USB device's specification as well as computer settings need to be checked.

- **The router may not support the USB device.**
The router does not support USB devices which operate using isochronous transfer. Please confirm that the connected USB device is not an isochronous device. For details on the USB device's specification, please contact its manufacturer.
- **The driver of the USB device may not be installed properly.**
Please connect the USB device directly to your computer and see what happens. If the USB device does not operate properly even if it is directly connected to your computer, the driver of the USB device is not installed on your computer properly. In such a case, please install the driver again. For details on how to install the driver, refer to the operation manual that came with the USB device.

3. The last part of a job is not printed when I use the printer auto-connect function of SharePort Utility.

- **SharePort Utility may be disconnecting the printer before the job is completely printed.**

Extend the amount of time before SharePort Utility disconnects from the printer after a job is sent. Select the printer in SharePort Utility's main window and click the **Properties** button. In the properties dialog, click the **Optional Settings** tab and then click the **Confirm** button. In the window displayed, extend the time in the Time before disconnecting after print job is sent field. For details, refer to **How to Use a Printer**.