



The GlobeSurfer III Print & File Servers



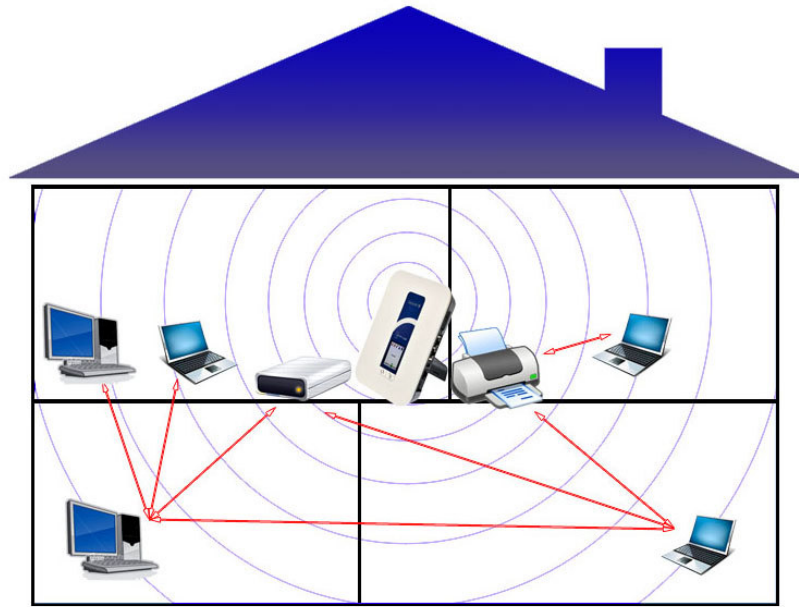
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1 INTRODUCTION

One of the highly desirable features of the GlobeSurfer III device is the ability to network together Printers and External Hard Disk drives (aka File Servers) directly, and share these devices over the Local Area Network (LAN) via WiFi or connected Ethernet.

Being a 'router' device, the GlobeSurfer not only links together Printers and Hard Disk drives, but also additional laptops or desktop computers that are sharing the WiFi or Ethernet based LAN.



In this document we will go through the steps necessary to enable printer sharing and file sharing, and show how you can extend the advanced features of your GlobeSurfer, thereby enhancing the user experience for all connected clients.

NOTE: Despite the GlobeSurfer only having a single USB Port, the connection of a simple USB Hub will extend the number of USB devices that can be connected.

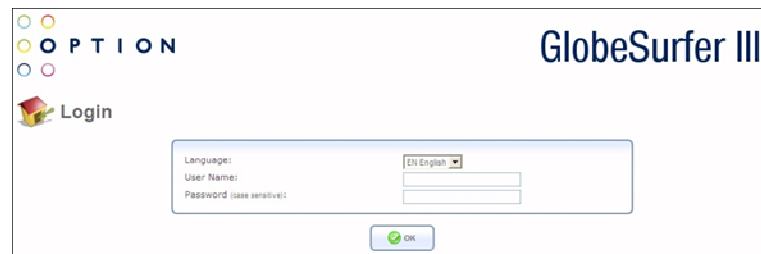
NOTE: Please be advised that USB devices that draw their power directly from the GlobeSurfer and not from an independent power supply should not be connected to the GlobeSurfer via an unpowered USB Hub, as the power drain required to drive external devices could cause the GlobeSurfer to 'hang'.

2 ADDING SHARED PRINTERS TO YOUR GLOBESURFER

GlobeSurfer III includes a print server that allows printers attached to the device via the USB connection to be shared by all computers on the LAN.



To configure a network printer, you must first open the GlobeSurfer Management Console, which can be easily accessed via your Web Browser software.



NOTE: You must have an established connection to the GlobeSurfer before setting up the Print Server or File Server solutions. This connection can be WiFi or Ethernet based. Please consult your quick start guide or user guide for instructions on initially setting up your GlobeSurfer.

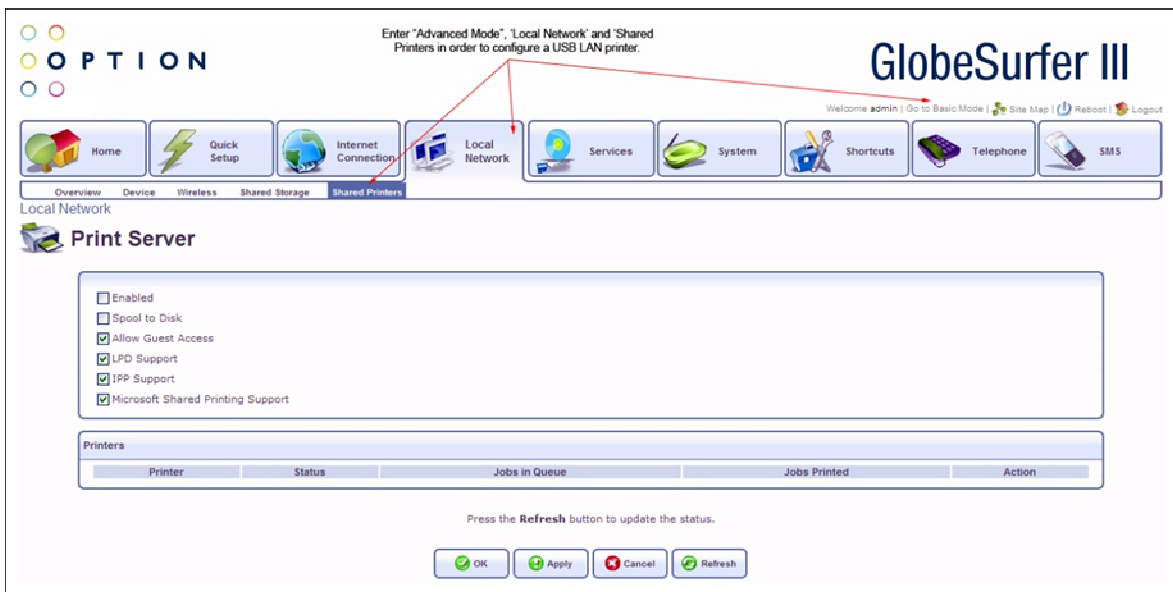
Once your web browser has been opened, type: **192.168.1.1**, and the GlobeSurfer Management Console will appear (as displayed above).

Upon successful logging in, you will then be presented with the “Basic Graphical User Interface Mode”.

Next, select the “Print Server” option from the Home screen.



The 'Printer' screen appears, where you can view information about your printer, as well as view a list of print jobs (when prints are in the queue).




When first establishing a connection to a new printer, the “Enabled” check box must be selected. The GlobeSurfer will then look for any printer devices attached to the router.


NOTE: Only printers supporting Windows IPP (International Printer Protocols) are supported. This accounts for the vast majority of printers available today, but in some extreme cases, this protocol is not supported, in which case, it is likely the printer will not be recognized.






Home


 **Internet Connection**



Insert SIM

 **Local Network**
1 Computers Connected


	 PaulsHP (me)	192.168.1.2	Connected
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
 **Storage**
No Disks Connected


 **Printers**
1 Printers Connected


	 StylusSX600FW	EPSON	Stylus SX600FW	idle
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The auto-detecting nature of the GlobeSurfer GUI will refresh to show the printer connected, along with a link (in blue) to the printer device. By pressing on the blue printer link (as seen above), the following screen is presented:


 Home


 Quick Setup


 Internet Connection

 Local Network

 Services

 System

 Shortcuts



Overview
Device
Wireless
Shared Storage
Shared Printers

Local Network

Printer

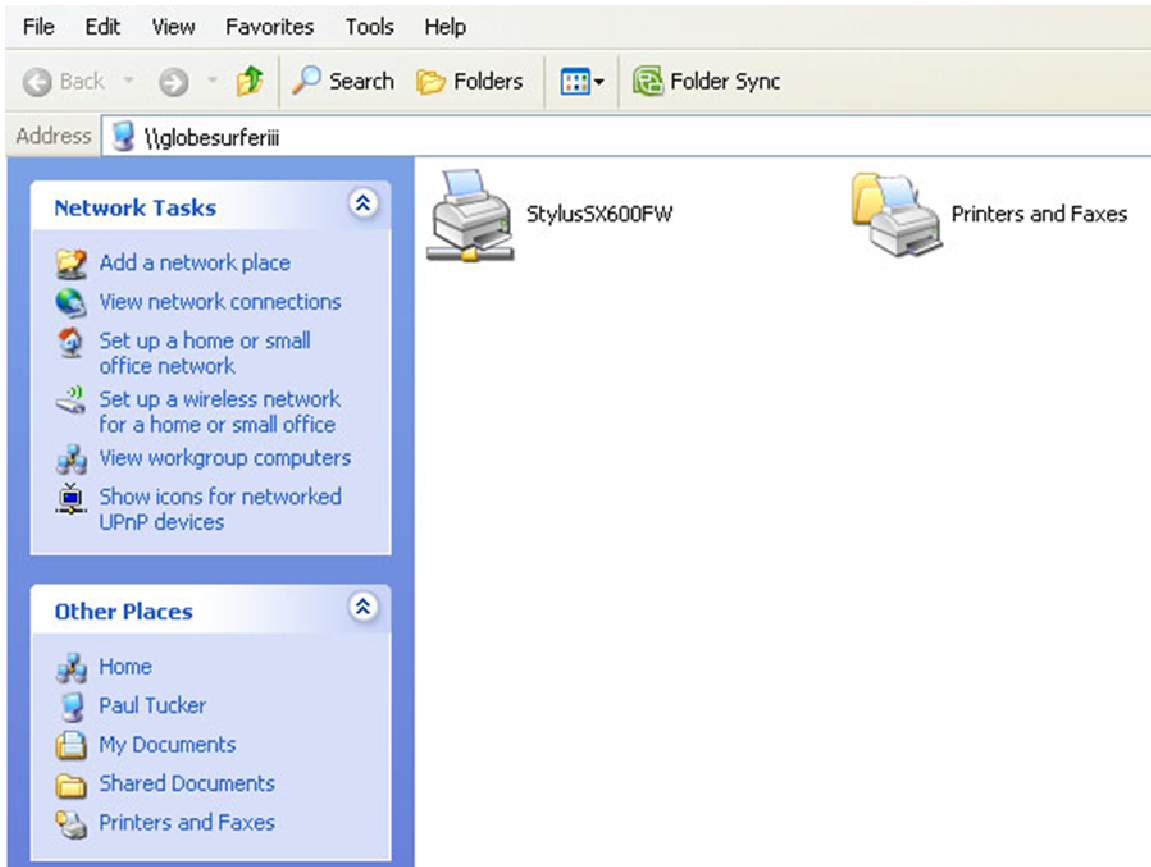
Name:	StylusSX600FW
IPP URL:	http://GlobeSurferIII.my-domain:631/printers/StylusSX600FW
SMB URL:	\\GlobeSurferIII\StylusSX600FW
Model:	EPSON Stylus SX600FW
Status:	idle
Jobs Printed:	0 (0 bytes)

Create Default Device Mode

Print Jobs

Name	From	Spooled	Printed	Size	Status

The user can rename the printer here, and can find the URLs necessary to ‘mount’ the printer onto the users desktop for printing. By clicking on the SMB URL, the following screen appears:



The printer is now installed and ready to be used by network (Wi-Fi or Ethernet) connected users.

3 ALTERNATIVE METHOD OF CONFIGURING THE PRINT SERVER

Normally the method indicated above will be sufficient to enable the configuration of your printer, however in some cases a more granular approach may be necessary.

In the event the above fails to locate or enable your printer, please try the method outlined below.

NOTE: Only printers supporting Windows IPP (International Printer Protocols) are supported. This accounts for the vast majority of printers available today, but in some extreme cases, this protocol is not supported, in which case, it is likely the printer will not be recognized.

To use the print server on the Option GlobeSurfer, you need to accomplish the following tasks:

- a. Install the printer drivers on the computer
- b. Connect the Printer to you Option GlobeSurfer
- c. Add a network printer on your Windows based PC

3.1 Install the Printer Drivers

Printers using the USB port come with a software installation CD for installing the printer drivers and applications. The drivers for the printer must be installed on the computer first to prepare it to

use the printer when it's connected to the GlobeSurfer. Refer to the printer's documentation on how to install the drivers.

3.2 Connecting the Printer

- a. Turn OFF the GlobeSurfer.
- b. Connect the Printer to the USB port and switch ON the router and printer.

3.3 Add a Network Printer

3.3.1 For Windows XP

Before you continue, ensure that you've installed the printer drivers on this computer and the printer is attached to the GlobeSurfer.

- a. Click on the Start Button > Control Panel > Printers and Other Hardware > Printers and Faxes.
- b. Click on the File Menu > Add Printer.
- c. Click on Next on the Add Printer Wizard page.
- d. Choose Local Printer attached to this computer and click Next, on the Local or Network Printer page.
- e. Choose Create a new port and on the drop down box choose Standard TCP/IP Port then click Next.
- f. Click Next button on Welcome to the Add Standard TCP/IP Printer Port Wizard.
- g. Enter your GlobeSurfer's Default Gateway IP address 192.168.1.1 then click Next.
- h. Under Additional Port Information Required choose Custom then click Next
- i. Once the computer detects the printer on the Print Server, it will ask for the printer manufacturer and model, a list of printers will be shown, select the your printer from the list and click OK.
- j. Choose Keep existing driver (recommended) then click Next until you reach Completing the Add Printer Wizard.
- k. Click Finish to complete the installation.

3.3.2 Printing a Test Page after Installation

- a. Open the Printers and Faxes page from Control Panel.
- b. Right click on the new printer and click on Properties.
- c. Click on the Print Test Page button on the Printer properties page, the test page will be printed on the network printer.

3.3.3 For Windows Vista

- a. Click on the Start Button> Control Panel.
- b. Click Printer under the Hardware and Sound category.
- c. Click on Add a Printer.
- d. Click on Add a local printer then click Next.
- e. Select Create a new port, on the drop down box choose Standard TCP/IP port then click Next.
- f. Enter the Default Gateway IP address of your GlobeSurfer 192.168.1.1 then click Next.
- g. Under Additional Port Information Required window, select Custom then click Next.
- h. Once the computer detects the printer on the Print Server, it will ask for the printer manufacturer and model, a list of printers will be shown, select the your printer from the list and click OK.
- i. Select Use the driver that is currently installed then click Next.
- j. To print a test page click on Print a test page on the confirmation screen, click Finish to complete the installation.
- k. If Printing was unsuccessful right click on the Printer's icon then select Properties.

1. Under printer's Properties click Port Tab and tick the IP address (192.198.1.1) that was set on previous settings then click Apply

4 FILE SERVER (ATTACHED STORAGE)

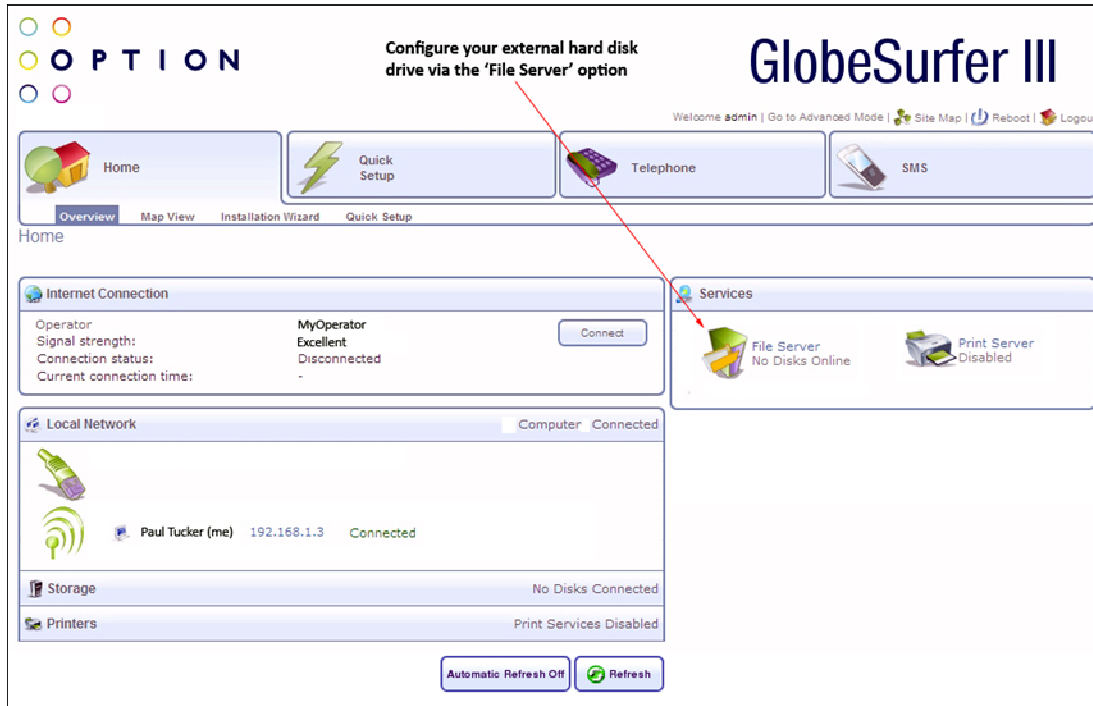
GlobeSurfer III includes a file server function that allows external hard disk drives to be attached to the device via the USB port. Once the external disk drive is connected, it can be shared by all computers on the LAN.

NOTE: The external hard disk drives must be formatted as "FAT" (File Allocation Table) format in order to read and write to the disk. NTFS (New Technology File System) format is supported for 'read' only, and will not enable you to write to the disk. It is possible to re-format your external hard drive in FAT32 format through the GlobeSurfer III device if you require read/write functionality.

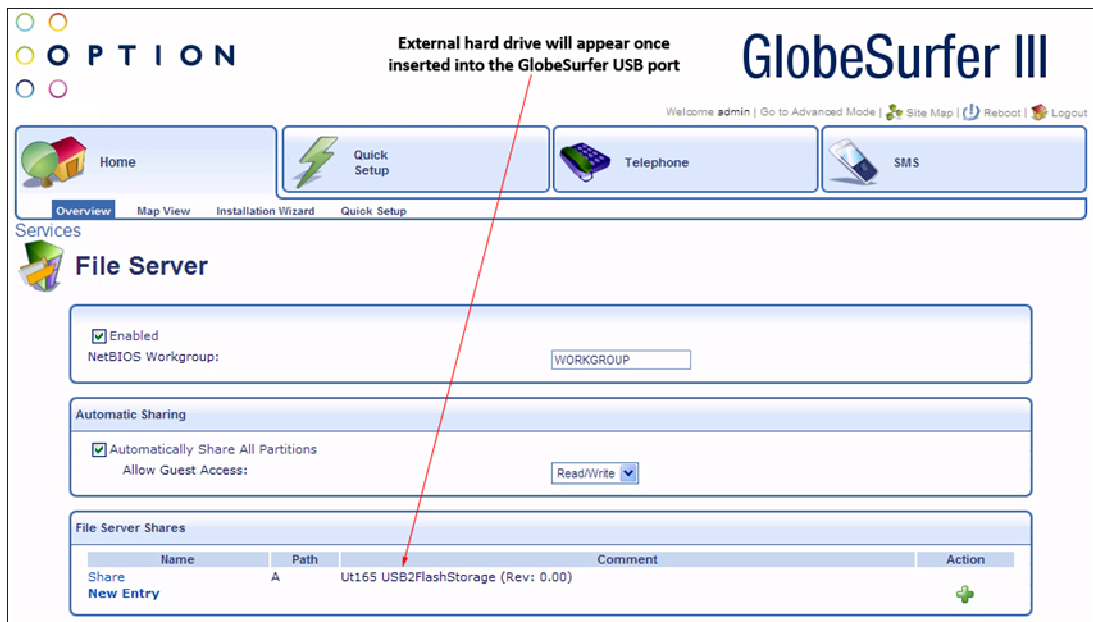
NOTE: External Hard drives that require power over their USB cable (ie., are not independently powered) should be connected to the GlobeSurfer III while it is turned off, or there is a risk the sudden power surge required to start the external hard drive may cause the GlobeSurfer III to 'hang'. USB 'memory stick' storage devices can be connected to the GlobeSurfer III at any point (ie., while the GlobeSurfer III is turned on or off).

To add an external hard disk drive to the GlobeSurfer III device, and use it over the LAN, follow the steps listed below.

- 2) Power **OFF** the GlobeSurfer III if the external hard drive draws its power from the device it is being connected to (ie., pocket drive or memory stick type hard drives), in this case – the GlobeSurfer III.
- 3) Connect the external hard disk drive to the GlobeSurfer USB port, and then turn on the GlobeSurfer III.
- 4) Log in to the GlobeSurfer Management Console (as described in the Printer setup section).
- 5) Select the "File Server" icon from the Basic or Advanced Home Screen.

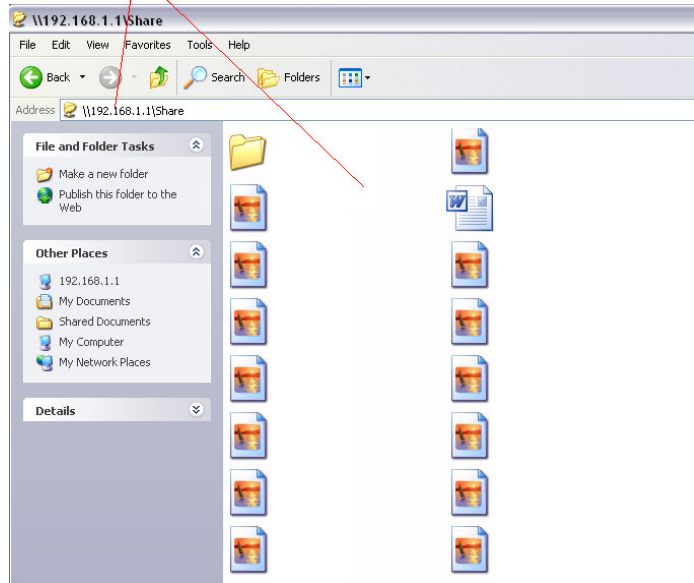


Once you insert your external hard drive to the USB port on the GlobeSurfer III, the browser will refresh to show the presence of the external device.



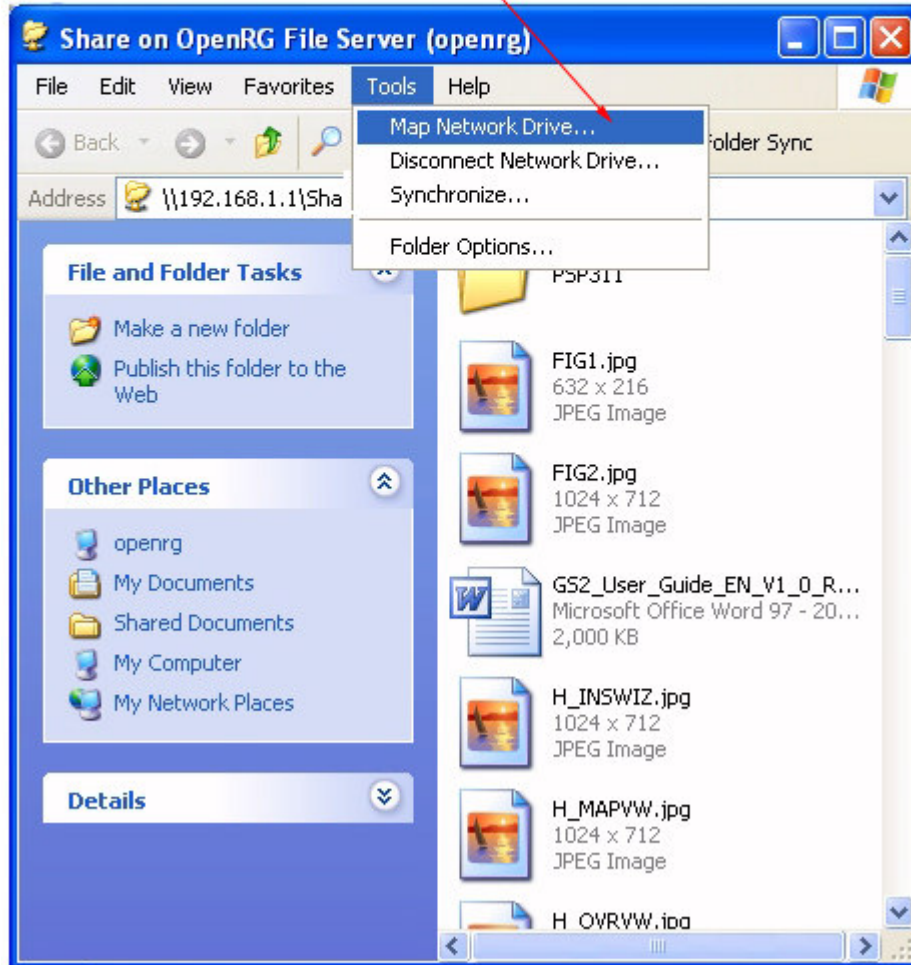
Open Windows Explorer and type in Address : <\\192.168.1.1\share> or <\\GlobeSurferIII\Share>. A new client windows will open showing the content of your external drive.

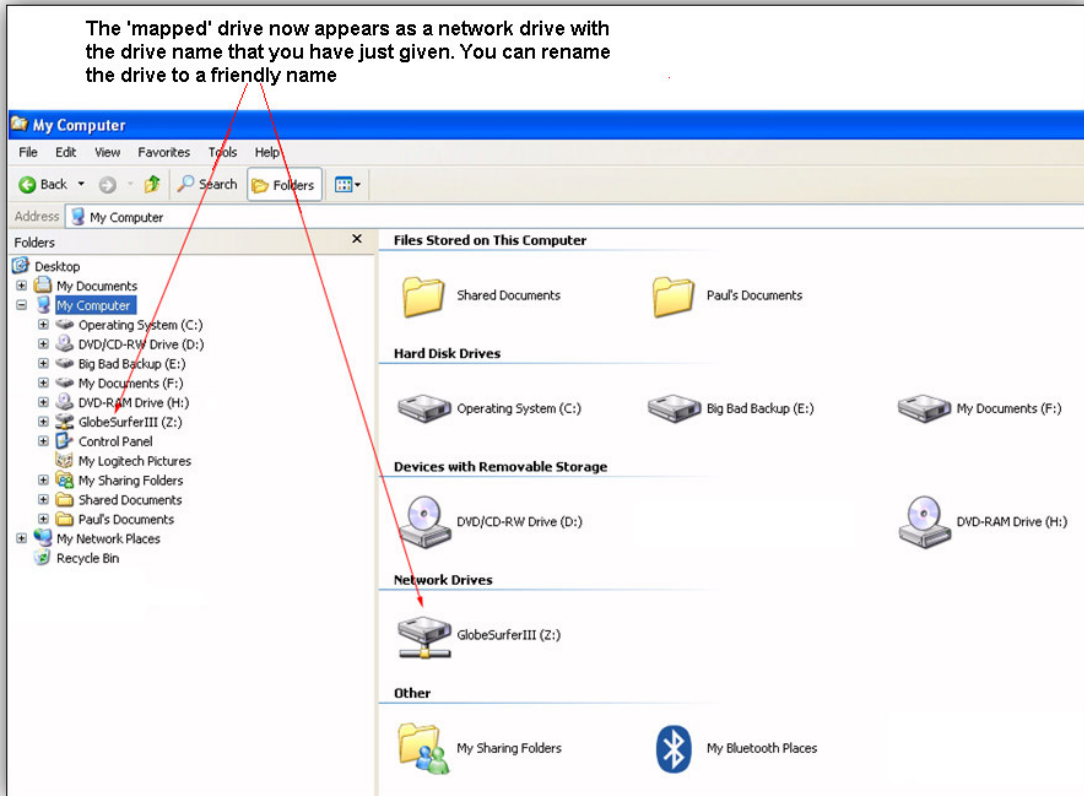
The external hard drive will open a new client window showing the contents of the external hard drive.



In order to configure your external hard drive device so that it is available every time you insert it into the GlobeSurfer III, then select “Map Network Drive” from the Tools menu and assign a drive label (such as ‘G:’).

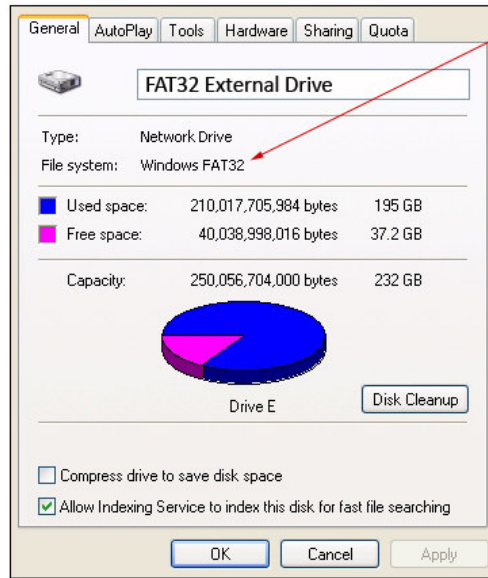
To configure your external drive so it appears on your desktop every time it is attached, select 'Map Network Drive' from the Tools menu and assign a drive label (eg 'G:')





NOTE: External hard disk drives must be formatted as "FAT" (File Allocation Table) format in order to read and write to the disk. NTFS (New Technology File System) format is supported for 'read' only, and will not enable you to write to the disk.

It is possible to re-format your external hard drive in FAT32 format through the GlobeSurfer III device if you require read/write functionality.



Only FAT16 or FAT32 drives are currently 'Read' and 'Write' supported.

NTFS formatted drives are visible in 'Read' mode only.

It is possible to re-format an NTFS external drive as FAT32 by right-clicking on the disk image and selecting 'Format'.

NOTE: Due to the single USB port on the GlobeSurfer III device, it is highly recommended that external hard drives be separately powered. For external hard drives that require power over their USB cable, it is highly recommended that the hard drive be connected to the GlobeSurfer III device while the GlobeSurfer III is turned off. In the event an external hard drive is connected to the GlobeSurfer III while it is turned on, the sudden power drain on the GlobeSurfer III device while the external hard drive initially powers up, may cause the GlobeSurfer III to hang.

5 SUPPORTED DEVICES

- GlobeSurfer III
- Memory Stick Storage Devices
- USB Based FAT32 formatted Hard Disk Drives (any devices greater than 160Gb should be powered independently to avoid excessive power drain on the GlobeSurfer)