



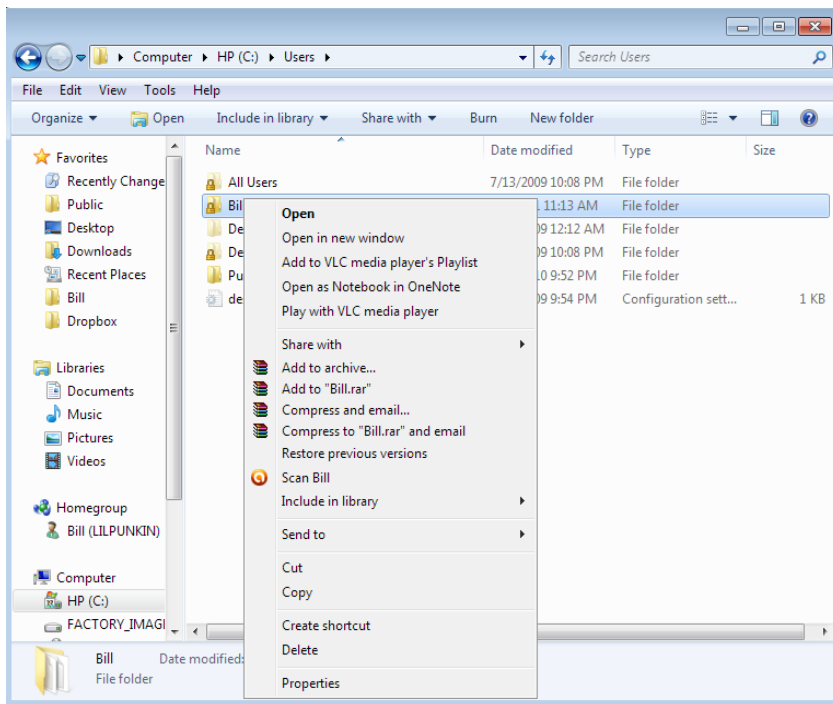
## Engineering Notes – Mapping instead of browsing

When you connect the AyrMesh Gateway Hub to your router, it sets up a separate network from your router using Network Address Translation or NAT. The DHCP settings on the AyrMesh Hub provide IP addresses on that network of the form 101.x.y.z, and those settings cannot be changed.

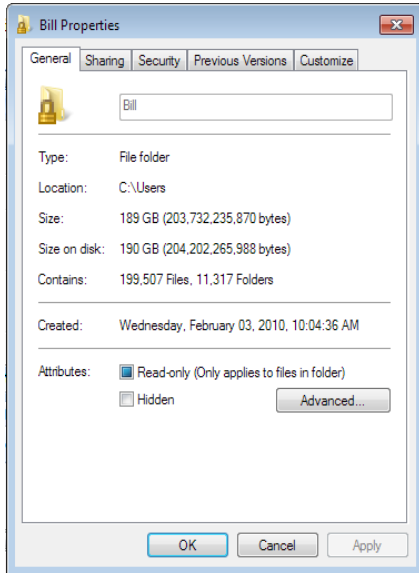
You should be able to access everything on your existing network from computers on the AyrMesh network, but you won't be able to "discover" or "browse" them. What this means is:

1.) If you want to use files shared from a computer attached to the router, you'll want to "map" the drive (using the IP address of the computer and the name of the drive) instead of "browsing" for it.

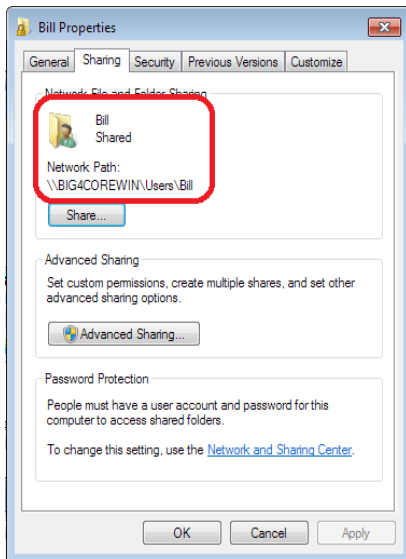
To share files, first the directory or drive you want to access must be shared on the computer where it resides. For instance, on my "BIG4COREWIN" machine (which is attached to my router and I have assigned a static IP address of 192.168.1.4), I have my home directory "Bill" shared. If I right-click on the C:\Users\Bill directory in Windows Explorer as follows:



and then click on the "Properties" item, I get the following dialog:

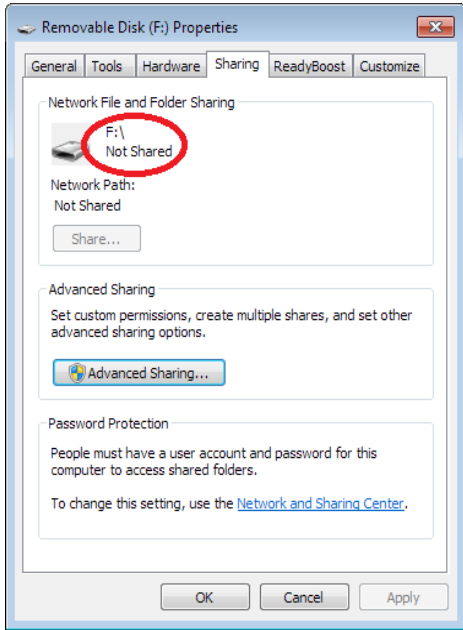


Clicking the "Sharing" tab at the top brings up the sharing dialog:



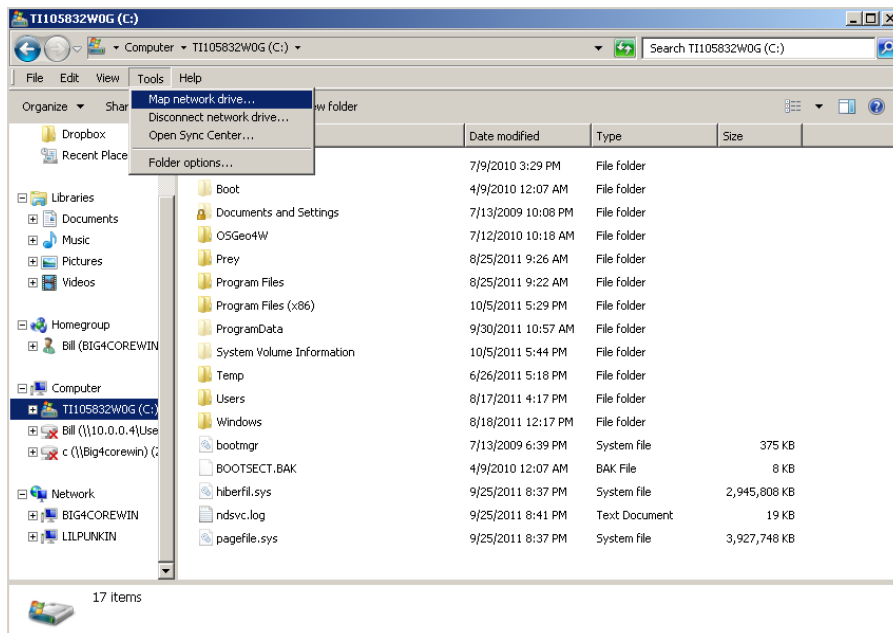
In the red square, you can see that the directory is shared as \\BIG4COREWIN\Users\Bill

Incidentally, if a Drive/Directory is not shared, this is what the dialog looks like:

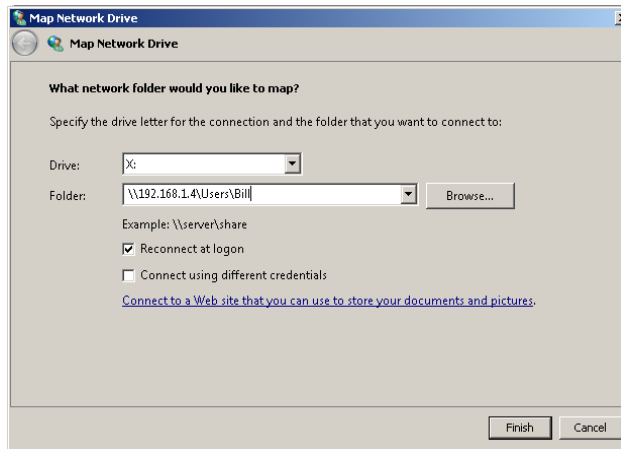


(In this case the removable drive is not shareable - if it were, you would share it by clicking the "Share..." button)

Once the drive or directory is shared, you have to "map" it on the computer from which you want to use that shared drive. Moving here to my laptop, I start Windows Explorer and Select "Tools" and then "Map Network Drive:"



This will bring up the drive mapping dialog box:



As shown here, on the “Folder” line I have put the name of the folder I shared on my desktop computer, but substituting the IP address of the computer (192.168.1.4) for the computer's name (BIG4COREWIN).

I can now access all the files in the /Users/Bill directory on my Desktop from my Laptop as the “X:” drive.

2.) If you install a new printer (plugged into your router or plugged into a computer attached to your router), the easiest way to install it is to attach your computer to the router directly (via Ethernet cable to one of the "LAN" ports on the router or using the router's Wireless connection), then install the printer. If you're installing a printer that's attached to a computer on the router, you'll want to use the IP address of the computer as shown in the file sharing example. Once the printer is installed, it will print from the router's network or from the AyrMesh network.

In the same way, other devices (media servers, file sharing devices (NAS), etc) can be used via their IP address. We encourage you to put these devices on your router's network with static IP addresses so the IP address doesn't change over time.