

InvisiBridge® Network Client User Documentation



Digital Telemetry Limited

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2. Release Notes & Version Control

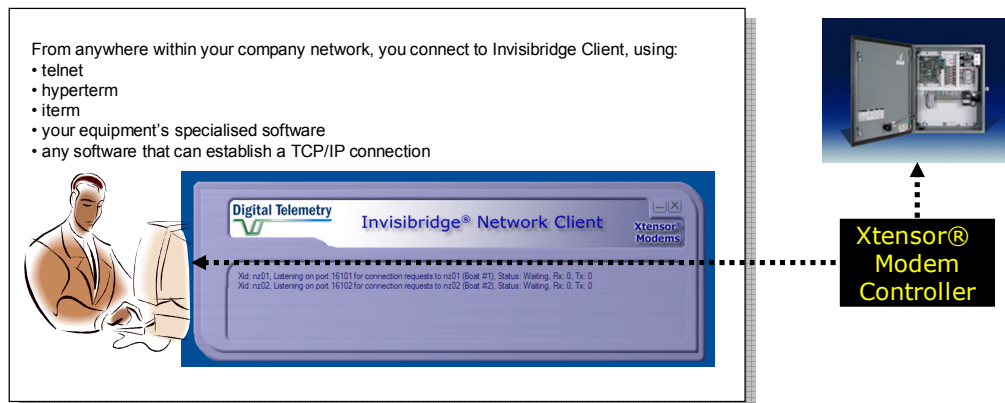
Version	Date	Author	Changes
1.0	17 Jan 2007	Mike Brearton	Initial Release

3. InvisiBridge® Network Client

3.1 Overview

InvisiBridge® Network Client

The InvisiBridge® Network Client program is a gateway between you and your remote equipment. It allows you to communicate with your equipment from your PC.



You connect to InvisiBridge® Network Client using your preferred program: telnet, hyperterm, putty, or your equipment's own proprietary software. Any software that can open a standard TCP/IP connection over an Ethernet LAN will work.

The InvisiBridge® Network Client will then complete the connection to your equipment for you. Your software will believe it has a direct link to your equipment.

If you wish, your entire office can share one InvisiBridge® Network Client program. Install and run InvisiBridge® Network Client on a single PC (or server) in your office. Any other PC in the office can connect to it... and therefore to your equipment. This means you don't need to set up InvisiBridge® Network Client on every PC that wants to connect.

3.2 Installation

3.2.1 Download the Installation Package

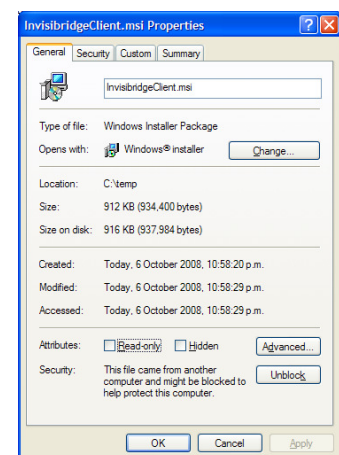
You can find the installation package on our web site: www.Digital-Telemetry.com. Log-in to the site, go to the *Downloads* page and download the InvisiBridge® Client software.

Always use your anti-virus software to scan *any* files downloaded from the Internet before installing them... no matter where you got it.

3.2.2 (Optional) Tell XP/Vista to "Unblock" it

Some companies have environments that won't trust software you have downloaded from the Internet. This may cause problems with the installation and/or subsequent running of the software: you may need to "*unblock*" the installation file.

In a standard Explorer window, select the file you just downloaded and open its properties (using the File/Properties menu option). If you see an "*Unblock*" button then click it.



3.2.3 Install the Software

The software is now ready to install. In Windows Explorer, double-click the MSI file... it will start installing. We recommend accepting the defaults.

The default installation directory is `C:\Digital Telemetry Ltd\InvisiBridge Client`. This is where the program files will be installed, and is also where log files will be created when you run the program. (Log files won't normally be required, but can provide useful debugging information.)

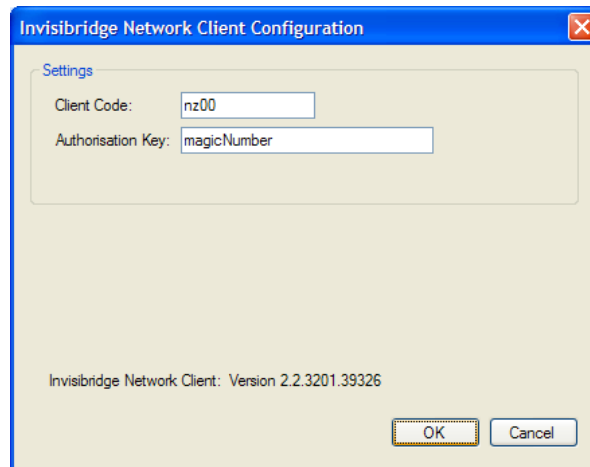
You can specify a different installation directory as part of the installation. However, we recommend the default if you are running Microsoft Vista as your operating system: security restrictions on Vista may prevent the creation of log files if the program is installed elsewhere.

3.2.4 Initial Start-up and Configuration

Start the InvisiBridge® Network Client program using the normal windows Start menu:

Start / Programs / Digital Telemetry / InvisiBridge Network Client

The first time you run the program you will be prompted for some configuration details, which will have been supplied to you by Digital Telemetry. Enter those now:

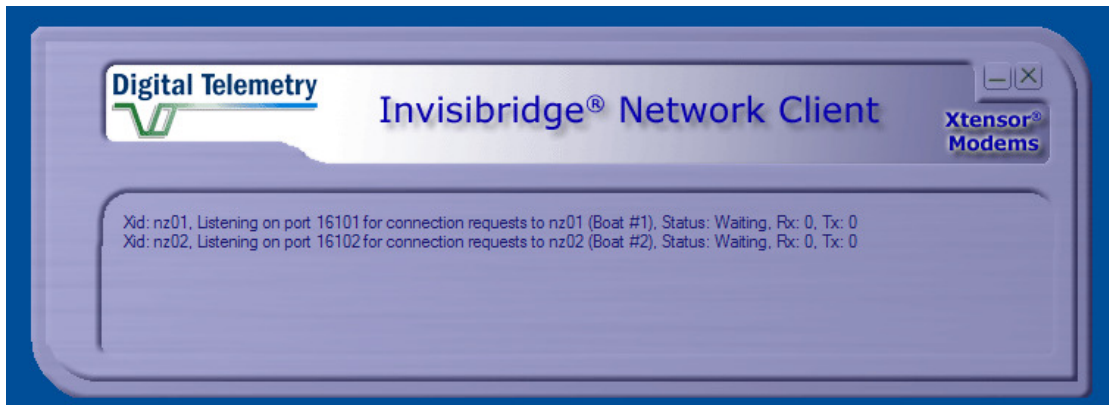


Press OK, and you are ready to go.

An entry has been made in your Start-up group, so the InvisiBridge® Network Client program will now automatically start every time you start the PC.

3.3 Using InvisiBridge® Network Client

The running InvisiBridge® Network Client will look something like the following.

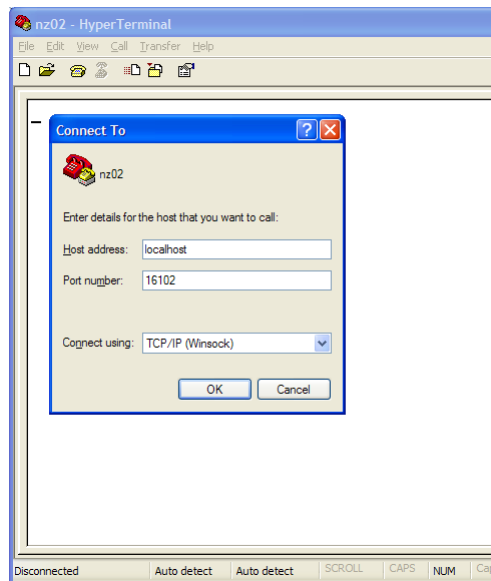


The information panel tells you everything you need to know... here's what it means.

The line "*Listening on port 16102 for connection requests to nz02 (Boat #2)*" means the following:

- TCP/IP connections to this computer on port 16102 will be accepted as a request to connect to your equipment on "Boat #2".
- The Xtensor® Modem at that location is identified within Digital Telemetry as unit "in02".
- The current status of "Waiting" tells us there isn't a connection to your equipment at the moment: this would read "Connected" if there was.
- The "Rx" and "Tx" tell us how many bytes of data have been transmitted to and from your equipment on the most recent connection.

So to connect to your equipment on "Boat #2" you configure your own software to specify port 16102 as the connection target. In hyperterm, it would look like this:



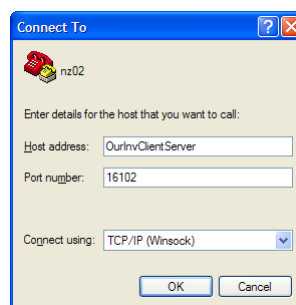
3.3.1 Accessing the InvisiBridge® Network Client from Another Computer

Once you have the InvisiBridge® Network Client running on a PC it is able to accept connections from any computer on your company network. This is useful, in that you can install the client on an unattended central server somewhere and anyone in your company can access your remote equipment through it.

Let's assume you have installed InvisiBridge® Network Client on a server in your office, which is named and known on the network as "OurInvClientServer".

Anybody in the company can now connect to your equipment on "Boat #2" by configuring the connection host as "OurInvClientServer" and the port as 16102.

For example, in *hyperterm* it might be something like:



3.4 Firewall Considerations

Firewalls are designed to stop the exact kind of network traffic the InvisiBridge® Network Client is attempting to support. So it is likely that your company firewall rules will require a tweak or two. If so, provide your IT support people the following details.

3.4.1 Outbound Ports

The InvisiBridge® Network Client will attempt to connect to the Digital Telemetry servers using an Internet connection to:

Hostname = digital-telemetry.serveftp.com

Port = 1666

The host "name" needs to be used (rather than the real IP address), as Digital Telemetry uses redundant servers in multiple locations and may (without notice) change the physical server to which this name points as part of load balancing, server maintenance management, or business continuance event responses.

You need to make sure your company firewall rules allow the PC running InvisiBridge® Network Client to request outside TCP/IP connections on this host name and port.

3.4.2 Inbound Ports

The InvisiBridge® Network Client program will expect to *accept* connections from a range of ports. The exact list will vary, but is displayed on the InvisiBridge® Network Client window. There will be one port for every remote unit you have.

This list is completely dynamic: however, by default the list will start at 16101 and increment from there. Contact Digital Telemetry if your company would prefer us to configure a different range of ports.

3.4.3 Limiting Access to InvisiBridge® Network Client

The InvisiBridge® Network Client program will accept connections from any computer that is able to "see" it. This may not be what you want.

You can use the above inbound/outbound port information to filter which workstations in your company are allowed to establish connections to the InvisiBridge® Network Client program, and therefore to your remote equipment.