The TELNET tool at the DOS Command Prompt can be a useful tool to confirm network connectivity to a server and diagnose IP connectivity problems. It is best to perform this test from a PC or laptop using the same CAT 5 cable that plugs directly into the AlarmNet communicator.

**Enabling Telnet in Windows Vista/Windows 7**

1. Open “Control Panel”
2. Go to “Programs and Features”
3. Click “Turn on Windows Features On or Off”
4. Select “Telnet Client”
5. Click on “OK”
6. Now follow procedures below

**Telnet Test Procedure:**

1. Open a DOS command prompt window:
   A. To do this, click “Start” and then click “Run”.
   B. When the dialog box opens type, “cmd” and press <enter>.

2. A valid Telnet command will be entered like this:
   
   C:\> telnet {Server Name or IP Address} {Port} <ENTER>

3. As an example, at the DOS prompt “C:\>” you will type the following to test connectivity to the server named “auiredirect1.alarmnet.com” over port 443:

   telnet auiredirect1.alarmnet.com 443 <ENTER>

After entering the Telnet command and clicking <ENTER>, the window should “blank out” and the cursor will return to the top left and flash.

Note: When provided, it is recommended to perform the telnet test to the server names (auiredirect1.alarmnet.com) in addition to the IP address (204.141.57.100) because this will also test the DNS service for IP resolution. If the test fails with the server name, but passes when the IP address is used, there is likely an issue with the network DNS service.

4. Next, type about 15 – 20 characters, you will see the socket quickly close and your command prompt will return, “C:\>”. This indicates connectivity to the designated server is working. Refer to pages 4-6 of this document for the full list of server names, IP addresses, and ports that should be tested.
If there is a problem...

1. “Connecting to 204.141.57.100…” followed about 30-60 seconds later by “Could not open…” In this case, there was a full failure to connect to the Server or IP address requested. The customer (or Network Administrator) should check their router and firewall settings to verify ports 80 and 443 are not blocked for **outbound** traffic. Please note there is no need to open any ports for **inbound** traffic.

2. The window does “blank out” but when you type a bunch of characters and hit <ENTER> you get an **HTTP-type long error page**. There is likely a PROXY server between the computer being used to TELNET and the Internet. In general, *our equipment won’t work behind a Proxy*, but there may be some network engineering that can be done at the site to work around this, depending on the equipment being used.

While our units were designed to work behind Firewalls and usually require no additional network configuration, some networks employ security measures that can cause connectivity failures. These may include:

- Proxy Servers
- Stateful Packet Inspection (SPI)
- Packet or IP filtering
- Any software that attempts to open or look inside our encrypted data packets.

If there is a problem reaching any of the AlarmNet servers, the customer should contact their network administrator and ask them to exclude the AlarmNet Servers and IP addresses from Firewall rules, SPI, and PROXY settings and ensure the IP addresses have unrestricted access to the internet over the listed ports (**for outbound traffic only**).

AlarmNet Technical Support can answer general questions, but cannot assist with making modifications to the end-user network. These changes should be made by a network professional or someone familiar with the network requirements and other parameters.
**Static or DHCP Settings**

AlarmNet Internet products can use either DHCP or Static IP addressing. If problems occur due to automatic IP releasing\(^1\) on the network, the AlarmNet device should be switched to a Static IP. If static IP’s are being used, the following information is needed from the Network Administrator before installation:

- Static IP address for the AlarmNet device
- Subnet Mask
- Default Gateway
- DNS IP Address

\(^1\) Automatic IP Releasing: AlarmNet Internet products ping AlarmNet every 20 seconds to verify connectivity; therefore, it releases the previously assigned IP address at the end of its session and requests a new one each time it checks connectivity.

**Total Connect Connectivity Software for Total Connect 2.0**

AlarmNet recently added additional servers to the IP infrastructure supporting Total Connect 2.0 services and has released a free software utility to perform a quick connectivity test to these servers.

For further information, please visit [https://mywebtech.honeywell.com](https://mywebtech.honeywell.com), then look for Intrusion and AlarmNet, Download Center, AlarmNet and then Honeywell Total Connect. Expand this section to download the Honeywell Total Connect Connectivity Software that can assist in confirming successful configuration of the end-user’s network firewall provisions. You will also see an FAQ document, a Connectivity Tool Information document and a Connectivity Tool Screen Shot document which is designed to help you in this process.

Please note, the software only tests connectivity to the new Total Connect servers. Manual TELNET testing must be completed for the remaining servers as listed in this document.
IP addresses and Servers used for AlarmNet Services

**Alarm Reporting and other AlarmNet Services**

The Server names and IP Addresses below are used for alarm reporting, Total Connect services, and Compass over IP. Test these at the AlarmNet IP communicator.

- Redir 1 .......... auiredir1.alarmnet.com (204.141.57.100) {ports 80, 443}
- Redir 2 .......... auiredir2.alarmnet.com (204.141.57.101) {ports 80, 443}
- Redir 3 .......... auiredir3.alarmnet.com (12.149.218.73) {ports 80, 443}
- RedirA .......... Need to Test IP address only (204.141.57.102) {ports 80, 443}*

* RedirA is only for legacy 7810 receivers and can be disregarded in most cases

**Total Connect 2.0- updated for 2016**

The IP Addresses below are used for Total Connect 2.0 services. Test these at the AlarmNet IP communicator.

Note: All TC Server IP addresses listed below can be automatically tested using the Total Connect Connectivity Software available for download at [https://mywebtech.honeywell.com](https://mywebtech.honeywell.com). More info provided on page 3.

- Redir 1 .......... auiredir1.alarmnet.com (204.141.57.100) {port 443}
- Redir 2 .......... auiredir2.alarmnet.com (204.141.57.101) {port 443}
- Redir 3 .......... auiredir3.alarmnet.com (12.149.218.73) {port 443}
- TC server .......... tcservice1.alarmnet.com (198.140.154.192) {port 443}
- TC server .......... tcservice2.alarmnet.com (198.140.154.193) {port 443}
- TC server .......... tcservice3.alarmnet.com (198.140.154.194) {port 443}
- TC server .......... tcservice4.alarmnet.com (198.140.154.195) {port 443}
- TC server .......... tcservice5.alarmnet.com (198.140.154.196) {port 443}
- TC server .......... tcservice6.alarmnet.com (198.140.154.197) {port 443}
- TC server .......... tcservice7.alarmnet.com (198.140.154.198) {port 443}
- TC server .......... tcservice8.alarmnet.com (198.140.154.199) {port 443}
- TC server .......... tcservice9.alarmnet.com (198.140.154.200) {port 443}
- TC server .......... tcservice10.alarmnet.com (198.140.154.201) {port 443}
- TC server .......... tcservice11.alarmnet.com (198.140.154.202) {port 443}
- TC server .......... tcservice12.alarmnet.com (198.140.154.203) {port 443}
- TC server .......... tcservice13.alarmnet.com (198.140.154.204) {port 443}
- TC server .......... tcservice14.alarmnet.com (198.140.154.205) {port 443}
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TC server ........ tcservice15.alarmnet.com (198.140.154.206) {port 443}
TC server ........ tcservice16.alarmnet.com (198.140.154.207) {port 443}
TC server ........ tcservice17.alarmnet.com (198.140.154.208) {port 443}
TC server ........ tcservice18.alarmnet.com (198.140.154.209) {port 443}
TC server ........ tcservice19.alarmnet.com (198.140.154.210) {port 443}
TC server ........ tcservice20.alarmnet.com (198.140.154.211) {port 443}
TC server ........ tcservice21.alarmnet.com (198.140.154.212) {port 443}
TC server ........ tcservice22.alarmnet.com (198.140.154.213) {port 443}
TC server ........ tcservice23.alarmnet.com (198.140.154.214) {port 443}
TC server ........ tcservice24.alarmnet.com (198.140.154.215) {port 443}
TC server ........ tcservice25.alarmnet.com (198.140.154.216) {port 443}
TC server ........ Need to Test IP address only (198.140.155.192) {port 443}
TC server ........ Need to Test IP address only (198.140.155.193) {port 443}
TC server ........ Need to Test IP address only (198.140.155.194) {port 443}
TC server ........ Need to Test IP address only (198.140.155.195) {port 443}
TC server ........ Need to Test IP address only (198.140.155.196) {port 443}
TC server ........ Need to Test IP address only (198.140.155.197) {port 443}
TC server ........ Need to Test IP address only (198.140.155.198) {port 443}
TC server ........ Need to Test IP address only (198.140.155.199) {port 443}
TC server ........ Need to Test IP address only (198.140.155.200) {port 443}
TC server ........ Need to Test IP address only (198.140.155.201) {port 443}
TC server ........ Need to Test IP address only (198.140.155.202) {port 443}
TC server ........ Need to Test IP address only (198.140.155.203) {port 443}
TC server ........ Need to Test IP address only (198.140.155.204) {port 443}
TC server ........ Need to Test IP address only (198.140.155.205) {port 443}
TC server ........ Need to Test IP address only (198.140.155.206) {port 443}
TC server ........ Need to Test IP address only (198.140.155.207) {port 443}
TC server ........ Need to Test IP address only (198.140.155.208) {port 443}
TC server ........ Need to Test IP address only (198.140.155.209) {port 443}
TC server ........ Need to Test IP address only (198.140.155.210) {port 443}
TC server ........ Need to Test IP address only (198.140.155.211) {port 443}
TC server ........ Need to Test IP address only (198.140.155.212) {port 443}
TC server ........ Need to Test IP address only (198.140.155.213) {port 443}
TC server ........ Need to Test IP address only (198.140.155.214) {port 443}
TC server ........ Need to Test IP address only (198.140.155.215) {port 443}
TC server ........ Need to Test IP address only (198.140.155.216) {port 443}

Updated: 2/2/16
**Total Connect video:**
The Server names and IP Addresses below are used for Total Connect Video (TC1 and TC2). Test these at the AlarmNet IP camera and end-user PC/laptop.

Video Server …… video.alarmnet.com (204.141.56.75) {ports 80, 443, 554, 8061}
Video Server …… video1.alarmnet.com (199.61.12.78) {ports 80, 443, 554, 8061}
Video Server …… video2.alarmnet.com (199.61.12.79) {ports 80, 443, 554, 8061}
Video Server …… video3.alarmnet.com (204.141.58.78) {ports 80, 443, 554, 8061}
Video Server …… video4.alarmnet.com (204.141.58.79) {ports 80, 443, 554, 8061}
Video Server …… video5.alarmnet.com (199.61.12.80) {ports 80, 443, 554, 8061}
Video Server …… video6.alarmnet.com (199.61.12.81) {ports 80, 443, 554, 8061}
Video Server …… video7.alarmnet.com (204.141.58.76) {ports 80, 443, 554, 8061}
Video Server …… video8.alarmnet.com (204.141.58.77) {ports 80, 443, 554, 8061}
Video File Server.. files.alarmnet.com (199.61.12.74) {port 443}

**Total Connect 1.0:**
The Server names and IP Addresses below are used for TotalConnect 1.0. Test these at the AlarmNet communicator and end-user PC/laptop.

Redir 1 ................ auiredir1.alarmnet.com (204.141.57.100) {ports 80, 443}
Redir 2 ................ auiredir2.alarmnet.com (204.141.57.101) {ports 80, 443}
Redir 3 ................ auiredir3.alarmnet.com (12.149.218.73) {ports 80, 443}
Data Server1 ....... dataserver1.alarmnet.com (204.141.58.80) {ports 80, 443}
Data Server2 ....... dataserver2.alarmnet.com (204.141.58.81) {ports 80, 443}

**Compass:**
The Server names and IP Addresses below are used for Compass IP Downloading. Test these at the AlarmNet communicator and programming PC/laptop.

Redir 1 ................ auiredir1.alarmnet.com (204.141.57.100) {ports 80, 443}
Redir 2 ................ auiredir2.alarmnet.com (204.141.57.101) {ports 80, 443}
Redir 3 ................ auiredir3.alarmnet.com (12.149.218.73) {ports 80, 443}
Control Server ..... controlserver.alarmnet.com (204.141.58.115) {ports 80, 443}
Data Server1 ....... dataserver1.alarmnet.com (204.141.58.80) {ports 80, 443}
Data Server2 ....... dataserver2.alarmnet.com (204.141.58.81) {ports 80, 443}