

Instinet Trading Portal Technical Specification

Technical specifications for delivering Instinet Portal

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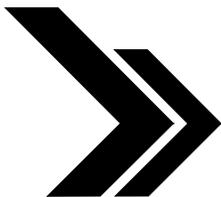


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Workstation Requirements

Instinet Trading Portal workstation installation requirements:

- Windows XP or more recent OS. Note that Instinet Portal does not support Apple OS.
- 2 GB RAM minimum, 4GB or more recommended
- Processor speed of 2 GHz+ recommended
- If the user is not local admin, Add Local Administrative Rights to the user and run the Portal installation. Then remove local administrative rights from the user once installation is complete.
- Run Installation as a **user** (not administrator), **with local administrator rights** to the **C:\ProgramFiles\INET Portal** directory and the **HKEY_CURRENT_USER\Software\INET Portal** registry key.

Workstations connect to the servers via the IP addresses and ports listed below. Instinet requests that clients open these firewall ports for all data centers.

Note: Firewalls must allow stateful connections and all conversations are initiated outbound.

Portal Port Range: 4110 – 4130

Portal Host IPs (Internet) : 198.178.38.190, 198.178.40.190

Portal Host IPs (Radianz): 170.16.5.190, 170.16.13.190

Portal Host IPs (TNS): 170.16.4.190, 170.16.12.190

Verifying Open Outbound Firewall Ports

- Use Telnet to verify that the necessary outbound firewall ports are open.
- Select Start>Run... and type cmd in the Open: box.
- Click OK to open the command prompt.
- Use Telnet to connect to the IP addresses and ports listed above in "*Portal Port Range: 4110 – 4130.*"

Example

For example, to verify connectivity to the HFC data center (via the Internet), type the following commands:

HFC Login Server:

```
> telnet 198.178.38.190 4102
```

HFC Quote Server

```
> telnet 198.178.38.190 4118
```

HFC Ordex Server

```
> telnet 198.178.38.190 4110
```

HFC FTP Server

```
> telnet 198.178.38.190 21
```

- If the required ports are open and connectivity is established, a flashing cursor appears.

Note: The flashing cursor does not appear when you use Telnet to connect to port 20/21. In that case, you will see a Microsoft GPT Service msg if the port is open.

- If the "**Could not open a connection to host on port xxxx: Connect failed**" message appears, where **xxxx** is the port number of the server, connectivity to the server is not established.

Portal Download

1. Type the following URL in your web browser
<https://www.instinet.com/resources>
2. Select "Portal" from the drop-down list, Login, and download the msi file.
3. Once downloaded, double-click on the file to start the installation process.
4. Click Next at the SetupWizard page.
5. Choose your location selection based on the connection setup for your ID—**Internet**, **Radianz (RXN)**, or **TNS**.
6. A new 'Instinet Trading Portal' icon will be placed on your desktop—login using your supplied credentials.

How to Transfer User Settings

1. Previous Workstation must be logged in with trader's NT account credentials.
2. On the previous workstation, Save the HKEY_CURRENT_USER\Software\INET Portal\CommandPost\User Settings registry to an accessible location (network drive, usb drive, etc.)
3. On new workstation, install the Portal client using the "*Portal Download*" instructions above.
4. After install completes on the new workstation, delete the registry key:
HKEY_CURRENT_USER \Software\INET Portal\CommandPost\User Settings
5. To load on the new workstation, double-click the Portal registry key previously saved from Step 2.

Error Messages

User Login Failed	<p>Issue: This message means that you have connectivity to the server, but there is a problem with the user ID.</p> <p>Solution: Verify that the user ID is configured for the datacenter to which you are trying to connect. Verify that the password is correct.</p>
Socket Error 10035	<p>Issue: This message means that you cannot reach the login server port.</p> <p>Solution: Perform the following test.</p> <ul style="list-style-type: none">• Ping the login server to which you are connecting. For example, type the following command. > ping 198.178.38.190• Use Telnet to connect to the login server. > telnet 198.178.38.190 4102 <p>If the ping failed, or you receive a "connect failed" message after using Telnet, the firewall ports are blocked. Contact the client's technical support team.</p>
Transfer Error 12031	<p>Issue: FTP is connecting to the Instinet Trading Portal server but is unable to import the software to the workstation.</p> <p>Solution: Verify that the client supports Active FTP. If the Active FTP is not supported, configure Instinet Trading Portal for Passive FTP. At the login prompt, select 'Options'. Enable Passive FTP as shown:</p>  <p>The screenshot shows a dialog box titled "Options" with two checkboxes: "Passive FTP" (checked) and "Verbose Logging" (unchecked). Below the checkboxes are three buttons: "Login", "Change Password", and "Quit".</p>
Unable to Launch on Vista PC	<p>Issue: Unable to launch portal application on Vista Workstation</p> <p>Solution: After installing Portal you will need to go to C:\Program Files\INET Portal using the Explorer application and right-click on the UserLogin.exe: Choose "Properties" and then navigate to the "Compatibility" tab: Then click the checkbox on the bottom of the screen that says: "Run this program as an administrator."</p>
Socket Error-2	<p>Issue: The user has insufficient administrative rights. Users must have local administrative rights to run Instinet Trading Portal.</p> <p>Solution: Add Local Administrative Rights to the user. Run the portal installation. Remove local administrative rights from the user once installation is complete.</p>

File Decompression
Error #6

Issue: The user has insufficient rights to portal folder

Solution: Add read/write access to the portal folder. The default path is:
C:/Program Files/inet portal
