DataWorX32 – Internet-Enabled Third Party OPC Clients

APPLICATIONS NOTE

October 2013

Description: Guide to connecting a third party OPC client over the internet using DataWorX32
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: Installation of DataWorX32 and GenBroker on your OPC server machine and installation of DataWorX32 on OPC client machine.

Configuring the Server

On the server computer, the only thing you have to do is start GenBroker. This will enable other computers to communicate to this server and get OPC data. You can follow the steps below to start GenBroker. Note that DataWorX32 Tunneling is also an option for enabling third party OPC server and clients where GENESIS32 is not installed.

1. Start MonitorWorX by going to Start → Programs → ICONICS GENESIS32 → MonitorWorX
2. An icon with a computer and a pink triangle will appear in the system tray next to your clock.
3. In the MonitorWorX window, select the "Apps & Services" tab if it's not already selected.
4. Expand GenBroker and right-click on GenBroker Server and select Start to start GenBroker if it's not already started.

NOTE: By default, GenBroker runs as an automatic service after installation.

Configuring the Client:

1. Start GenBroker Configurator by going to Start → Programs → ICONICS Tools → GenBroker Configurator
2. In the GenBroker Configuration dialog that comes up, click on "New…" to create a new configuration.

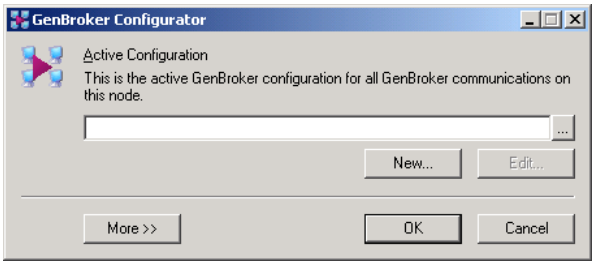

Figure 1 - GenBroker Configurator Startup Dialog

NOTE: You can also use the default configuration file if you wish.

3. In the tree-control on the left-hand side, click on Channel.
4. In the right-hand pane, right-click on OPC over TCP/IP Direct Channels and select Set as Default
5. Right-click on the channel again and select Add Node
6. Add your OPC server in the dialog that comes up.

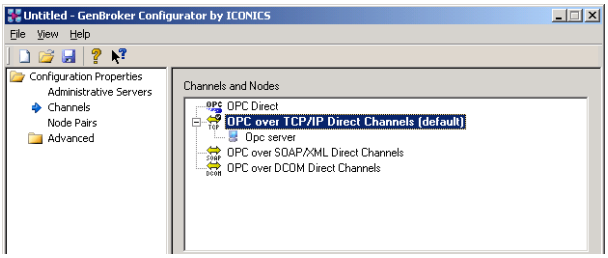

Figure 2 - GenBroker Configurator Channels

7. Save your configuration and close it. Your OPC clients can now connect to remote OPC Servers.

DataWorX32 Registers

1. Open DataWorX32 by going to Start → Programs → ICONICS GENESIS32 → DataWorX32 → DataWorX32
2. Create a new configuration database by going to File → New, and give the database a name.
3. In the right-hand pane, right-click on Address Space and select New → Register to add a register.
4. In the right-hand pane, give the register a different name if desired and then go to the Input Tab.

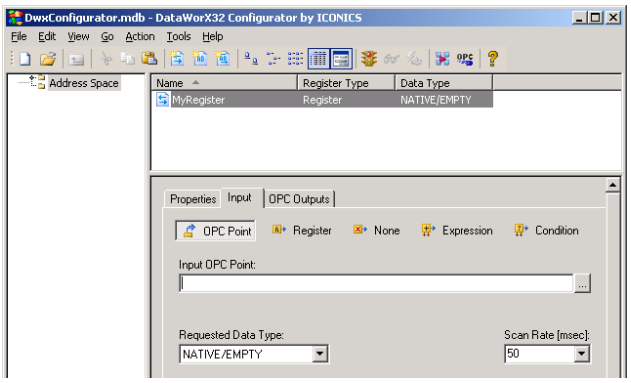

Figure 3 - Input Tab in DataWorX32

5. Click on the Browse button to bring up the Unified Data Browser to select your OPC tag from the third party OPC Server.
6. Click "OK" once you have selected your OPC tag to come back into the configurator and click "Apply".
7. Select to File → Make Active… If the option is already grayed out, the configuration is already active and you are all set.
8. Click on the traffic light to start DataWorX32.
9. Click on the pair of glasses to bring up monitor view.
10. Check the register that you have just added if it is not already check to monitor and see its value update.