



Description: How to connect 3rd Party OPC Clients over the Internet using DataWorX32.

OS Requirement: Windows XP/2000/NT, 9x/Me.

General Requirement:

DataWorX32 offers Gen Broker technology in order to intranet/internet enable third party OPC Clients.

Key DataWorX32 Features :

- OPC Redundancy
- OPC Data Bridging and Data Exchange
- OPC Data Aggregation
- OPC Server / Client capability
- Firewalls Friendly with XML
- Powerful Registers and Expressions
- OPC Aliasing
- OPC Condition Switching
- Support for OPC over TCP/IP
- Support for OPC over SOAP/XML
- Routing using OPC Mediator Capability

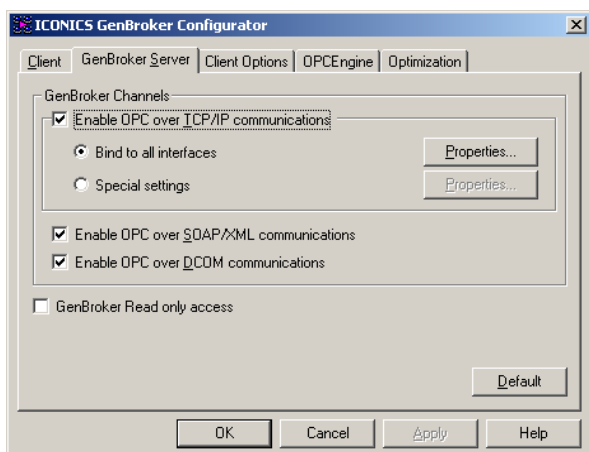
Installation

On all OPC server computer(s) and OPC Client Computers the user needs to install DataWorX32 v7.0 in order to get access to the Gen Broker technology. The Server computer(s) run the OPC Server(s) and Gen Broker. Gen Broker v7.0 does not require a license. The Client computer(s) run the OPC Client(s) and DataWorX32. DataWorX32 v7.0 does require a license.

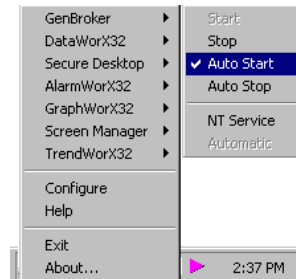
Configuring the Server Computer:

To configure GenBroker click *Start, Programs, ICONICS GENESIS-32, Tools, GenBroker Configuration*.

Select the *GenBroker Server* tab and verify that the check box is set for **Enable OPC over TCP/IP communications to this computer**. That's all!

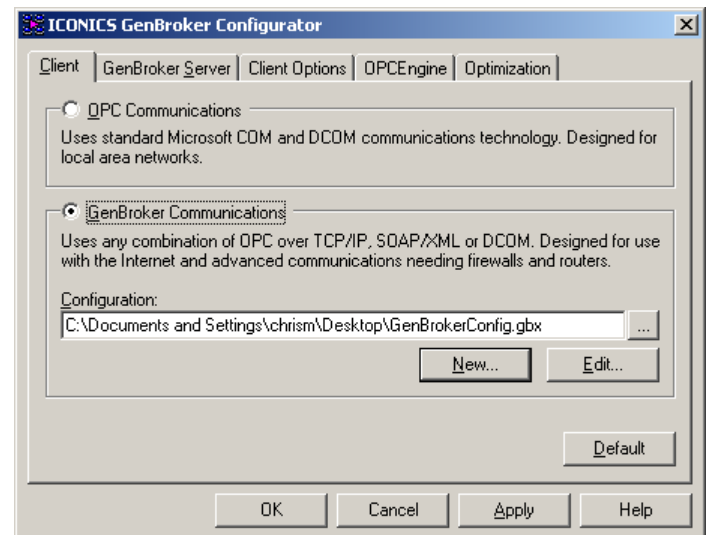


GenBroker communications needs to be started by either running it as an NT Service, or by starting it from the ICONICS GenTray System tray.

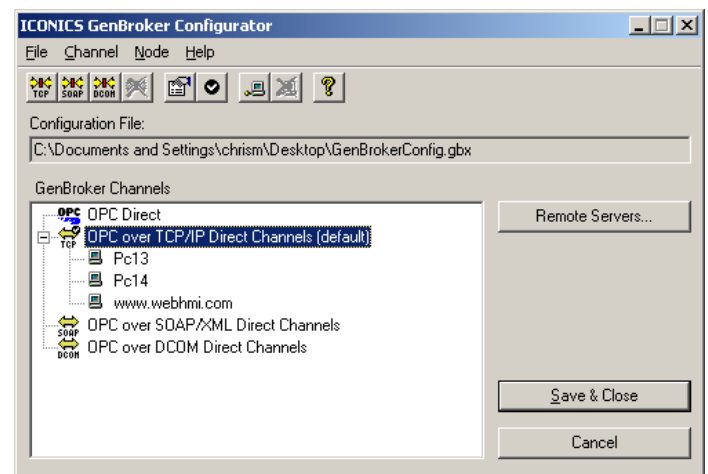


Configuring the Client Computer:

Start GenBroker configurator and select *GenBroker Communications* from the client tab.



Click the *New...* button.





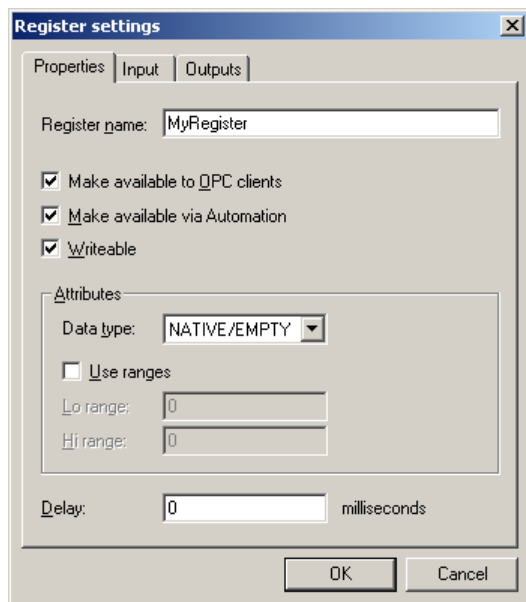
Right-Mouse click the **OPC over TCP/IP Direct Channels** And set it to *Default*. Also add the *Node* names of the server computers e.g. PC13 or its IP address. Save & Close the configuration and you will be prompted for a file name to store the settings.

Your OPC Clients can now connect to remote OPC Servers through DataWorX32.

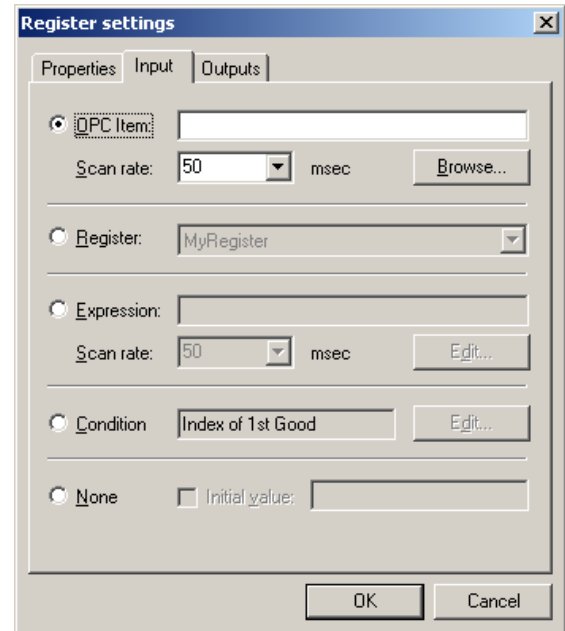
DataWorX32 Register

Registers are exposed to your OPC Client as a normal OPC Item. To try the communications, you can add a Register to the DataWorX32 configuration. This register will represent the remote OPC item.

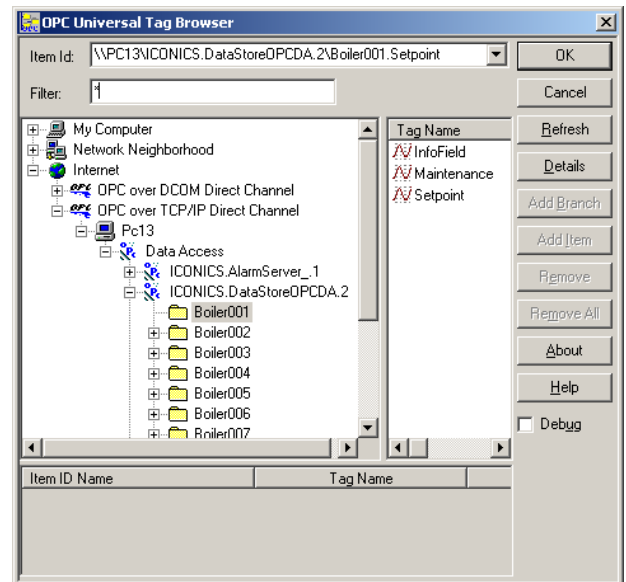
1. From the menu select, *Register, Add...*
2. Set the register name to *myRegister*



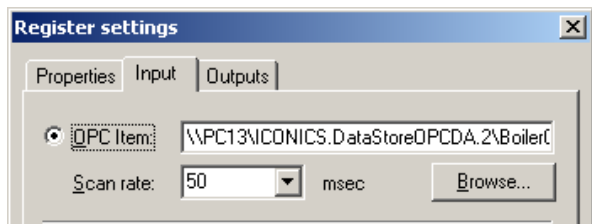
3. Select the Input tab, and click Browse... for the OPC Item



4. The OPC Tag Browser allows browsing the **Internet** or Intranet.



5. Select an OPC Server on PC13 and browse for the required OPC item. Click OK.



6. Click OK again and select *File, Save* from the menu.
7. Click the traffic light in the tool bar to start DataWorX Runtime and select *View, Monitor Values*

The OPC Client needs to specify **ICONICS.DataWorX32** as part of the tag name in order to get live values through DataWorX32.

An example of a tag to be reached

Remote PC	<i>PC13</i>
OPC Server	<i>ICONICS.DataStoreDA.2</i>
OPC Item	<i>Boiler001.Setpoint</i>

The OPC Client needs to connect to OPC Server
ICONICS.DataWorX32

and OPC Item

\\PC13\\ICONICS.DataStoreOPCDA.2\\Boiler001.Setpoint

Example storage tank inventory monitoring OPC client :



ICONICS.DataWorX32\\pc13\\ICONICS.DataStoreOPCDA.2\\Boiler001.Setpoint = 111