



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 GenBroker technology in order to enable third party OPC Clients via a network.

Key DataWorX32 Features:

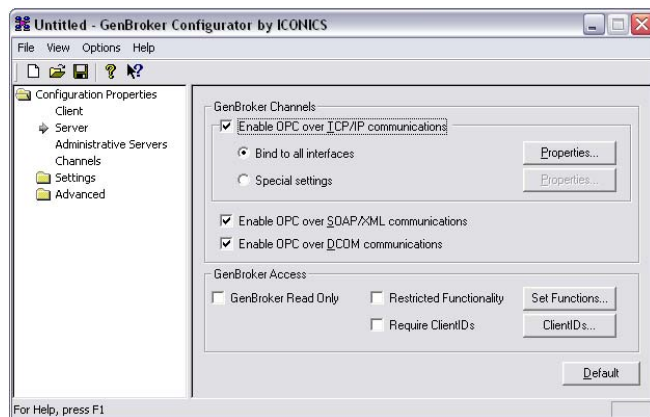
- OPC Redundancy
- OPC Data Bridging and Data Exchange
- OPC Data Aggregation
- OPC Server / Client capability
- Firewalls Friendly with XML
- Powerful Registers and Expressions
- OPC Aliasing
- OPC Condition Switching
- Support for OPC over TCP/IP
- Support for OPC over SOAP/XML
- Routing using OPC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

Installation:

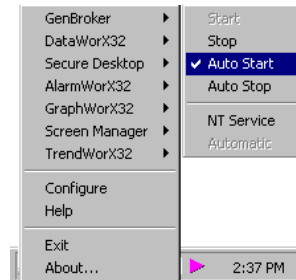
On all OPC server computer(s) and OPC Client computer(s), the user needs to install DataWorX32 v7.0 in order to get access to the GenBroker technology. The Server computer(s) run the OPC Server(s) and GenBroker. GenBroker v7.0 does not require a license. The Client computer(s) run the OPC Client(s) and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

Configuring the Server:

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

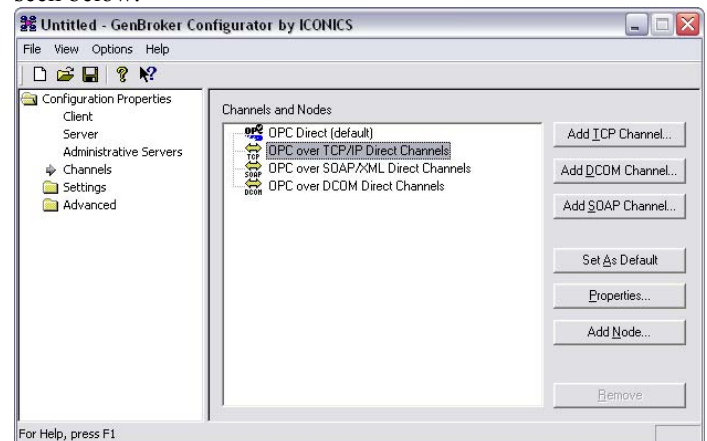


GenBroker communications need to be started by either running it as an NT Service, or by starting it from the ICONICS GenTray System tray.

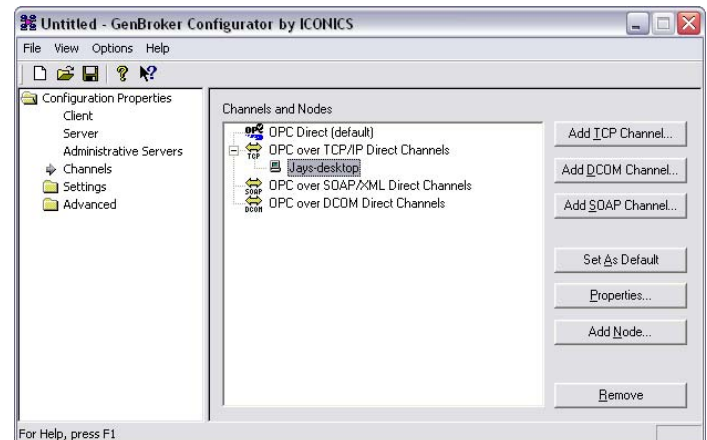


Configuring the Client:

Start GenBroker Configurator and select the "New" button at the top-left side of the screen. Then highlight "Channels" as seen below:



Highlight "OPC over TCP/IP Direct Channels", click on "Add Node" and add the name of the computer acting as your OPC server:



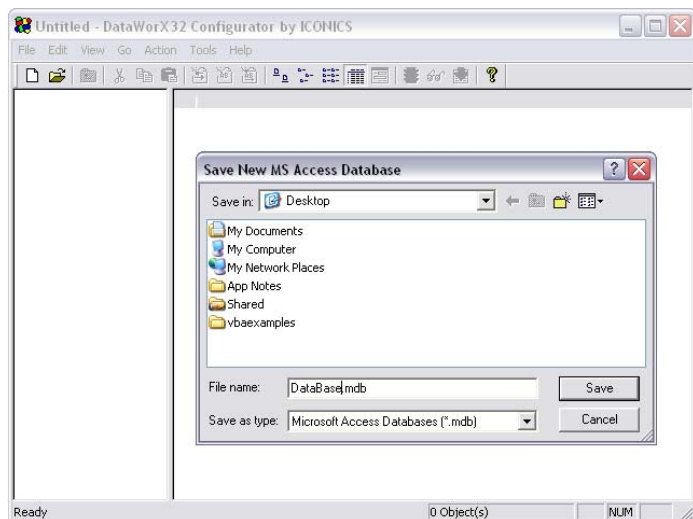
Click the button to “Set As Default”. Save & Close the configuration and you will be prompted for a file name to store the settings.

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

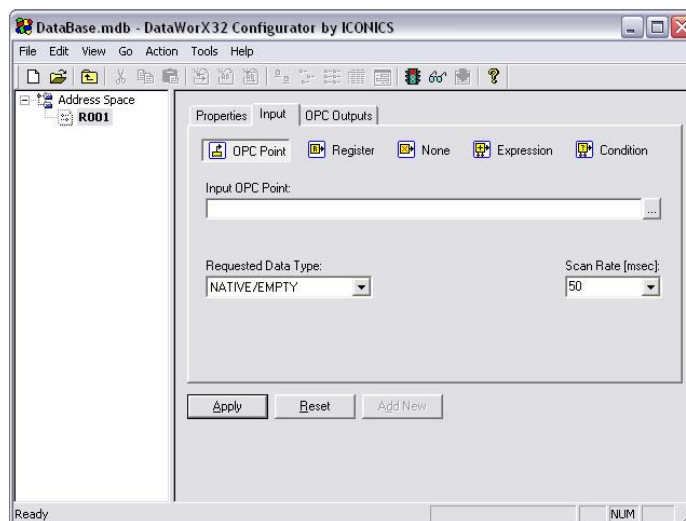
DataWorX32 Register:

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

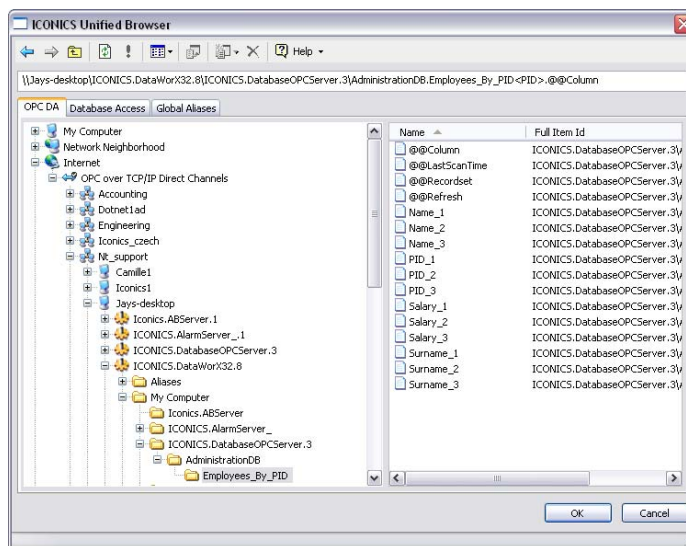
1. From the top menu: *File, New*
2. Name the database.



3. When the database is created, select *Edit, New -> Register*.
4. Select the Input tab, and click Browse [...] for the OPC Item.



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



6. Select an OPC Server on the left-hand side and browse for the required OPC item. Click OK.
7. Click *Apply*, which will automatically update and save the file.
8. Click the traffic light in the tool bar to start DataWorX Runtime and select *View, Monitor View*. A window *may* appear asking if you want to set the current database as active. Click *Yes*.

The OPC Client needs to specify **ICONICS.DataWorX32.8** as part of the tag name in order to get live values through DataWorX32.



An example of a tag to be reached

Remote PC *Jays-desktop*

OPC Server *ICONICS.DatabaseOPCServer.3*

OPC Item *AdministrationDB.Employees_By_PID.Name_1*

The OPC Client needs to connect to OPC Server

ICONICS.DataWorX32.8

and OPC Item

\\Jays-desktop\ICONICS.DataWorX32.8

ICONICS.DatabaseOPCServer.3\AdministrationDB.Employees_By_PID.Name_1