



Description: *Configuring GenBroker to provide OPC Communications over TCP/IP.*

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

General Requirement:

GenBroker OPC over TCP/IP technology provides users with a simple method to configure OPC communications for Intranet and Internet. Now, OPC Client applications can be instantly WEB enabled using this new DCOM replacement technology. This simple app note steps you through an example of configuring GenBroker.

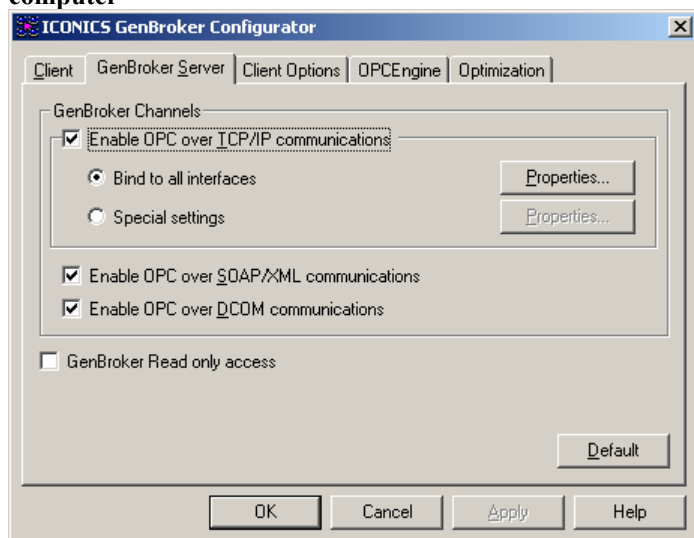
GenBroker Communications Capabilities:

- Controllable Time-outs and Re-connect
- OPC Data Access, Alarm/Events and Trending
- Intranet and Internet based Tag Browsing
- Support for OPC over TCP/IP
- Support for OPC over SOAP/XML
- Supports multiple NT/2000 domains
- Support for DNS, NAT and DHCP
- Support for Mediator Nodes
- Support for Firewalls

Configuration Server Computer

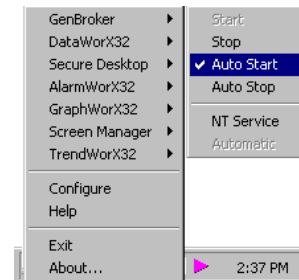
On the OPC server computer you install GenBroker, either by installing GENESIS32 v6.1 or DataWorX32 v6.1. To configure GenBroker click *Start, Programs, ICONICS GENESIS-32, Tools, GenBroker Configuration*.

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



Start GenBroker on Server Computer

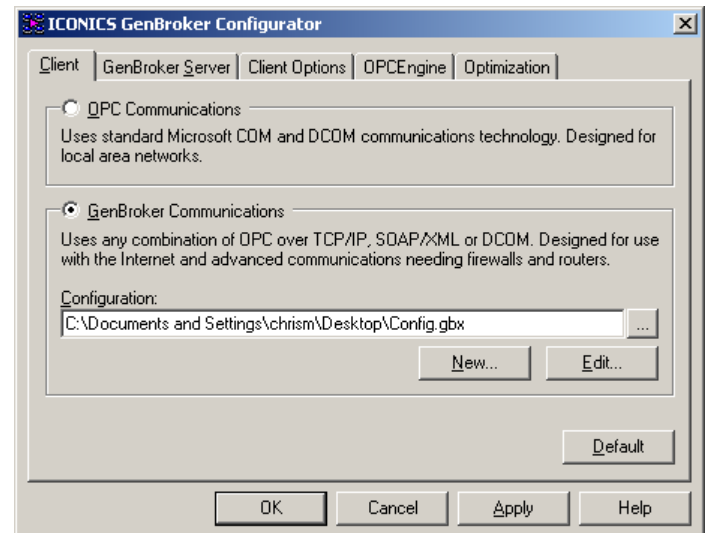
GenBroker can be started by either running it as a NT/2000 Service, or by using ICONICS GenTray, located on the Windows standard System Tray.



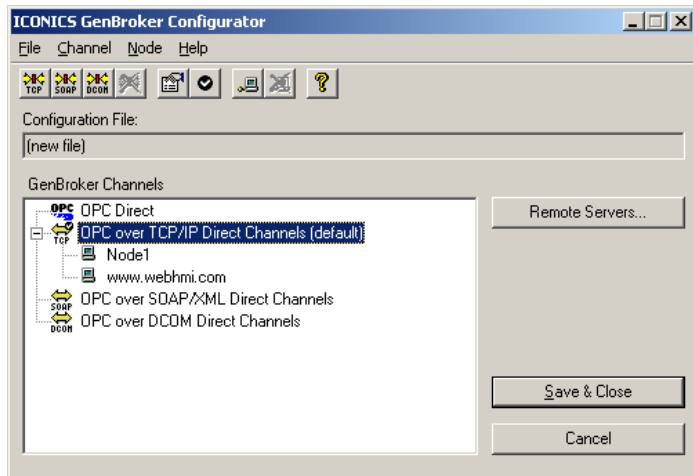
Configuration Client Computer

On the client computer you install GENESIS-32 v6.1

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** name of the server computer e.g. PC4 or its IP address.

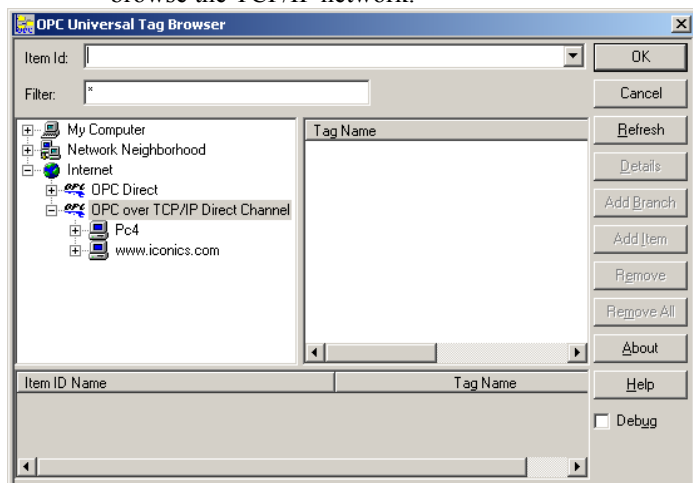
Save & Close the configuration and you will be prompted for a name for the configuration file.

GENESIS32 v6.1 is now configured to reach the OPC Servers using GenBroker Technology!

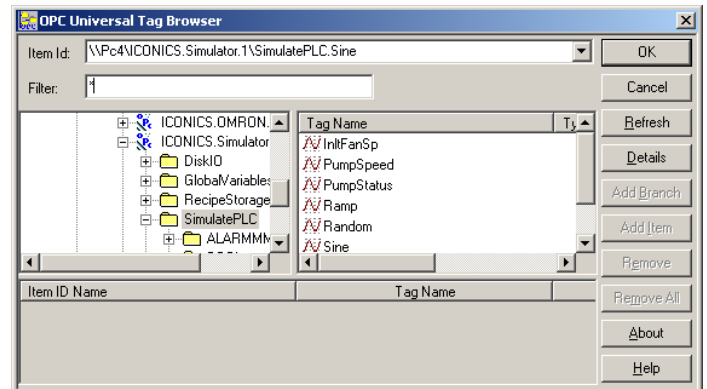
Live Data !

Start **GraphWorX32** and place a Process Point on the display. The OPC Tag Browser will guide you in selecting your favorite OPC Tag.

- Select the **Internet** icon in the left Window in order to browse the TCP/IP network.



- Select PC4 and and pick your tag.



- Select **OK** after selecting the Tag
- The **Property Inspector** shows the tag name. You can click **OK**
- Select **Runtime** from the menu
- Live data is shown as seen below.

-0,32

\\Pc4\\ICONICS.Simulator.1\\SimulatePLC.Sine = -0.323324799537659