



Description: Guide to setting up a computer to act as a mediator node through GenBroker.

OS Requirement: Windows Server 2003, Windows 2000 Server, or Windows XP/2000/NT.

General Requirement: Prior to reading this applications note, you should first read the **GenBroker – Introduction to GenBroker Communications** applications note, which describes general concepts of GenBroker.

Overview:

The concept behind using a GenBroker Mediator Node is to use one computer as a bridge between a Client PC and a server PC. This can be especially useful if the mediator node is used to join multiple networks together, thus allowing Clients on one network to communicate with Servers that are on another network. Any computer can be setup as a Client PC that uses a mediator node, even computers that are running as servers. See **Fig. 1** for a better understanding.

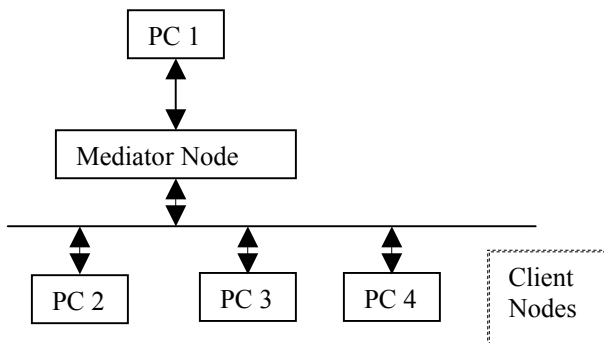


Fig. 1: Using a Mediator Node

Client Setup

Follow this setup on the Client PC if you wish to go through a mediator node to communicate to a Server PC.

1. Start the **GenBroker Configurator** from the **Windows Start Menu**.

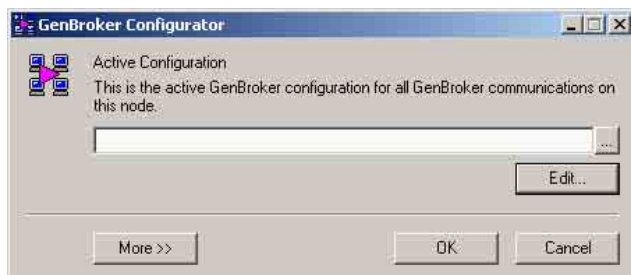


Fig. 2: GenBroker Configurator

2. Select **Edit** button to setup a new configuration.
3. Click on the **Add TCP Channel** button and create a direct TCP/IP Channel via a node.

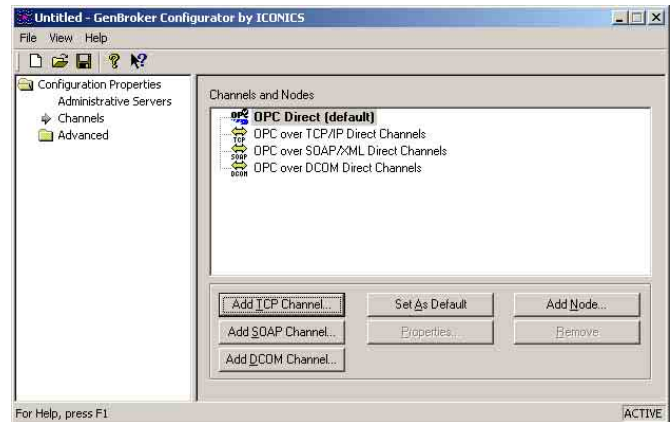


Fig. 3: Create new TCP/IP Channel

- 3) Select the name of your mediator node from the drop down list, or type it into the textbox, then press **OK**.



Fig. 4: Select Mediator Node

- 4) Customize the **TCP/IP Channel Properties**. The default settings should be sufficient for most applications. Press **OK** when finished.

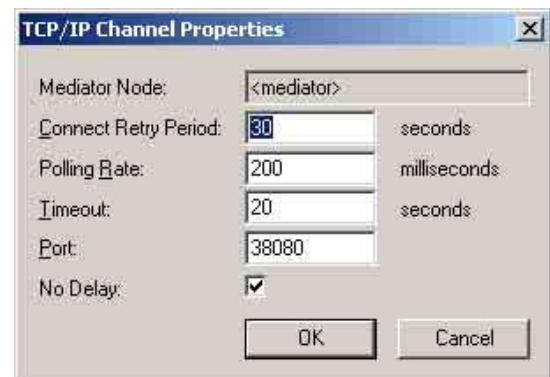


Fig. 5: TCP/IP Channel Properties

- 5) Set this new TCP/IP channel to be the default means of communications by right clicking on it and choosing



Set As **Default**. This is not necessary if you specify all nodes you will talk to via this channel in the next steps.

- 6) Next, add the node for the server to which you are connecting, by right clicking on the TCP/IP channel and selecting **Add Node**.

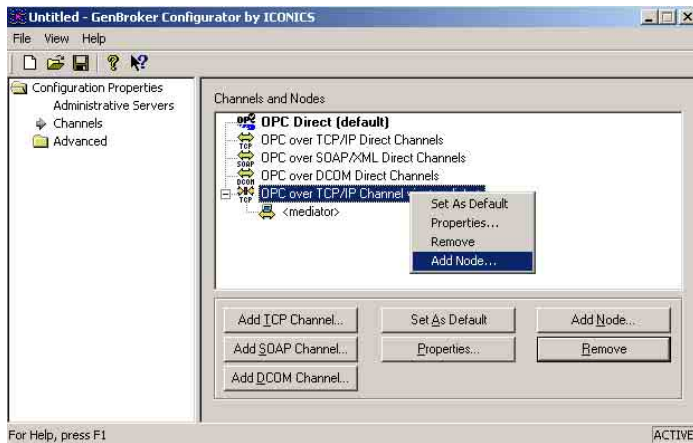


Fig. 6: Add Node for Server Node

- 8) You will be asked to enter a node name for the remote node, so either choose it from the drop down list, or enter the name in the textbox. This could be in Microsoft Networking, IP address, or DNS name form. Press **OK** when finished.
- 9) The setup should look like the example below:

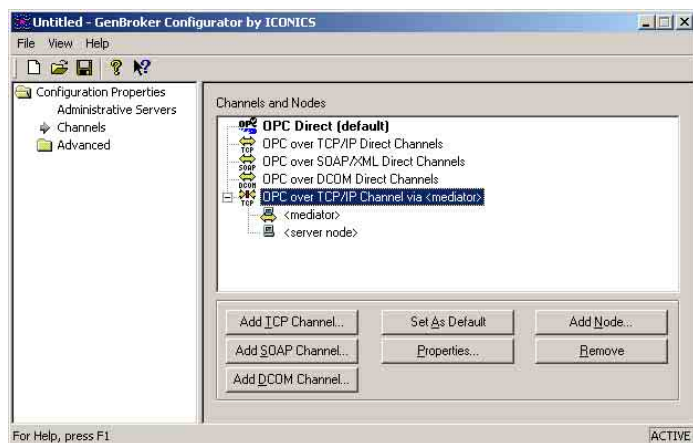


Fig. 7: Correct appearance of a Mediator Node setup

- 10) Continue to add additional nodes to this channel if there are other computers that you would like to communicate with via this mediator node.
- 11) Save the GenBroker configuration file. Then press **Ok**, to exit the GenBroker Configurator.

Mediator Node Setup

Follow this setup on the Mediator node PC if you wish to use it as a bridge when communicating to other server PCs.

- 1) Make sure the **Mediator Node** can communicate to the actual server node. This can again be a communication via TCP/IP (GenBroker) or can simply be DCOM.
- 2) Before accessing the remote server, you must first start GenBroker on the Mediator Node. This allows the Mediator node to serve the data that it gets from the server machines routed through it to the client via GenBroker.