GenBroker – Setup for SOAP/XML

APPLICATIONS NOTE

October 2013

Description: Guide to setup SOAP/XML communications for GenBroker
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: GENESIS32 v9.x must be installed; the Server PC and the SOAP server must have IIS (Internet Information Server) installed

Introduction

GenBroker is ICONICS' technology to allow remote computers to access data over the intranet or internet. The popular method for this type of communication is through the TCP/IP channel. However, this method requires the opening of a specific port, which is 38080 by default. Unfortunately, sometimes the environment is such that no additional port besides the default internet port 80 can be open. In such a case, ICONICS provides a different communication channel for the data to pass through.

This application note will walk you through setting up your Servers to use the SOAP/XML communication channel in case you cannot use the TCP/IP channel.

Server Setup

Before you begin, please make sure that the following are installed:

- Internet Information Services (IIS) 5.0 or higher
- GenBroker

NOTE: If you are using a 64-bit operating system that can only run IIS in 64-bit mode (e.g. Server 2003 x64), the SOAP/XML channel will NOT work.

You can use the GenBroker Standalone installation from the GENESIS32 installation disk if you do not need other parts of GENESIS32. Once you have installed the two components mentioned, you are ready to being configuring.

1. From **Start → Programs →ICONICS Tools** select the **SOAP Wizard**. Enter the name of the computer and click on OK to continue.

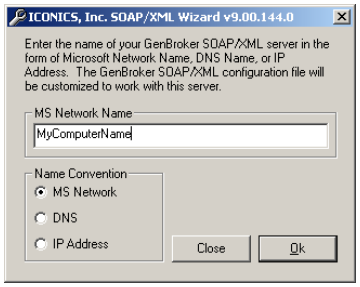

Figure 1 - SOAP/XML Wizard

2. Add "**Network**" to the default launch and access permissions in DCOM by Typing in "DCOMCNFG" into the **Start → Run** field and hit enter
3. Go to the "**Default Security"** tab in the DCOM Configuration Properties window

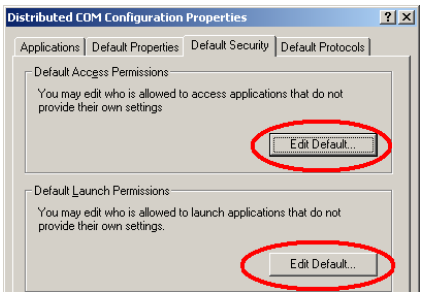

Figure 2 - DCOM Configuration

4. Under "**Default Access Permissions**" click on the "**Edit Default**" button. In this dialog, you should make sure that "**Network**" is there, otherwise click on "Add…" and select it from the list of local users and groups.
5. Follow the same procedure as above for the "**Default Launch Permissions**".

NOTE: On Windows 2003 servers, please add Network Services and Network. Also, the DCOM configuration dialog will look different on Windows XP and Windows 2003. On these machines, if there are "Edit Limit" options, you should click on these buttons and do the same steps.

6. Set up GenBroker to run as a manual service so that we can see IIS starting GenBroker when a client request is made.
7. Reboot the machine for the DCOM settings to take effect.

Optimization Tip

Disable TCP/IP server in **GenBroker Configurator → Advanced → Server → General**. The TCP/IP Initialization code slows down the GenBroker.exe module initialization, causing a delay for the first time it starts.

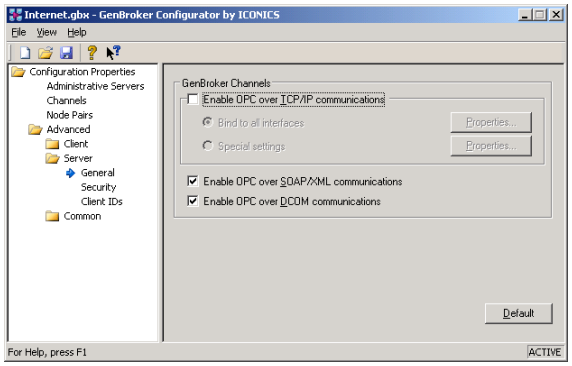

Figure 3 - Optimization within GenBroker