



GENESIS32 – Using OPC-XML-DA

APPLICATIONS NOTE

August 2004



Description: Guide to setting up OPC XML DA for GENESIS32. This example uses the ICONICS Simulator 3.1 OPC Server.

OS Requirement: Win 2000/XP/2003.

General Requirement: IIS 5.0 or greater installed on the machine. The OPC server should support XML DA

Installation Steps

1. During installation of the ICONICS Simulator 3.1 OPC Server, if you already have IIS installed, you will see the window in **Figure 1**. The window is not shown if IIS is not installed. Check the **Install XML-DA now** radio button. Click on **Next**.

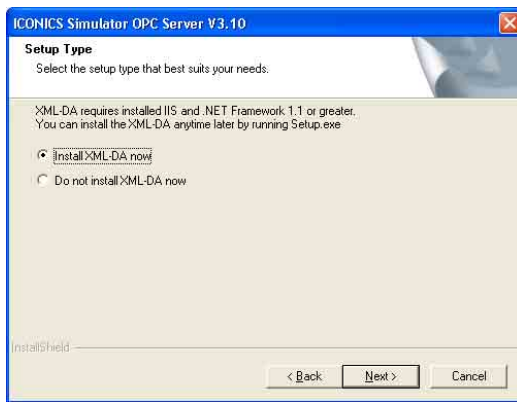


Figure 1

2. You should see a message box informing you that XML DA is being installed.

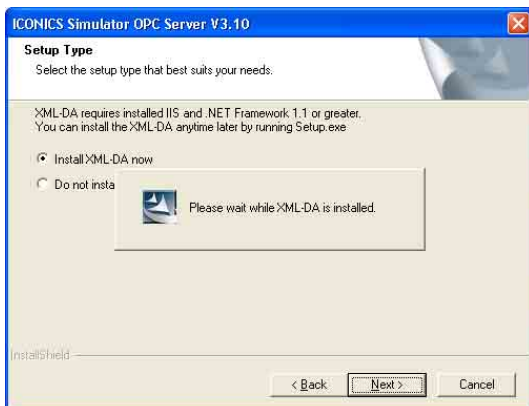


Figure 2

3. Proceed with the installation. After the installation is complete, open your IIS Manager from **Start → Control Panel → Administrative Tools → Internet Information Services**. When you expand **Default Website**, you should see a virtual directory **Simulator-XML-DA** created there.

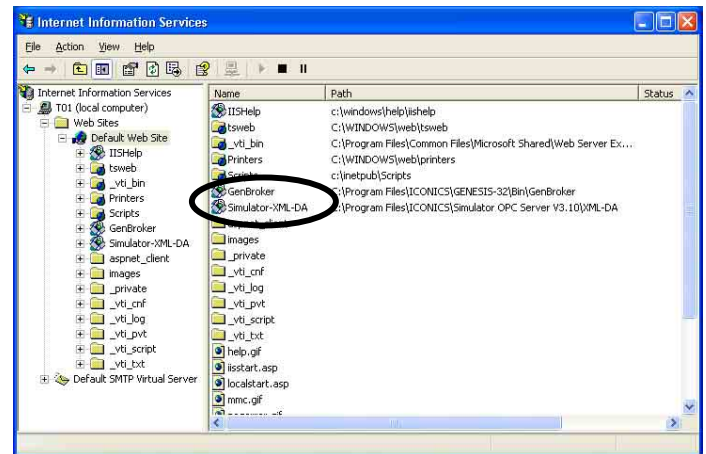


Figure 3

4. Go to the folder where the ICONICS Simulator 3.1 OPC server is installed and make sure there is a file with the extension ***.asmx**. The name of this asmx file is usually the ProgID of the OPC Server. In this case, the name of the asmx file is **ICONICS.SimulatorOPCDA.asmx**.

Viewing Data from a Client

1. Open any client such as **OPC DataSpy**, or **DataWorX32**. In this example we are opening a new DataWorX32 file.
2. Add a **register** to the DataWorX32 configuration by choosing **Inputs → OPC Point**. Click the **Browse** button to open the **Unified Data Browser**.
3. In the **OPC DA** tab, right-click on **Favorites** and select **New Data Server**.

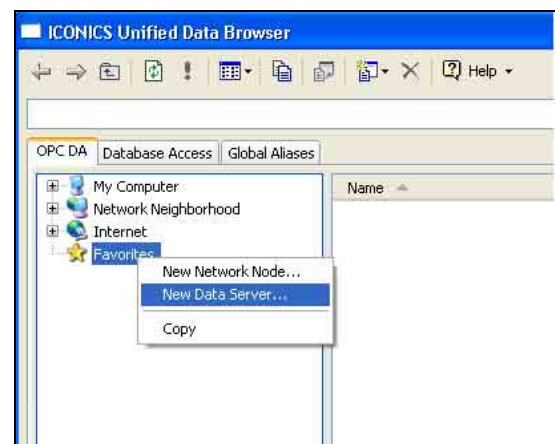


Figure 4

4. In the **Add Data Server** window, type: <http://localhost/Simulator-XML-DA/ICONICS.SimulatorOPCDA.asmx>
5. If your OPC server is on a remote machine, type in the name of the remote machine instead of **localhost**.



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6. **Simulator-XML-DA** is the name of the virtual directory created for you during the installation of the OPC Server. **ICONICS.SimulatorOPCDA.asm** is the name of the *.asm file you are referring to for data.

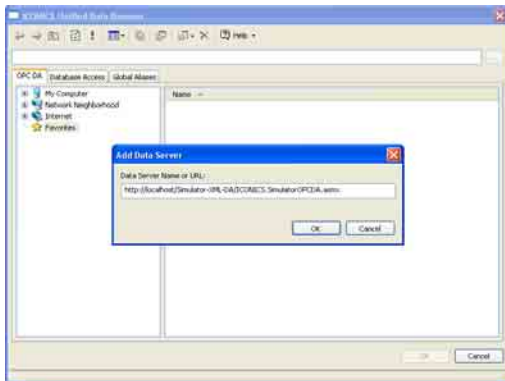


Figure 5

7. Click on **OK**. Now if you expand **Favorites**, you should be able to see the tags present in the OPC Server.

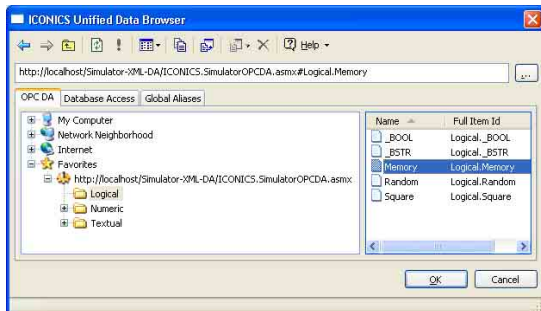


Figure 6

8. Select a tag and click on **OK**. Click on **Apply** in DataWorX32. You can monitor the tag in DataWorX32 to see the value.

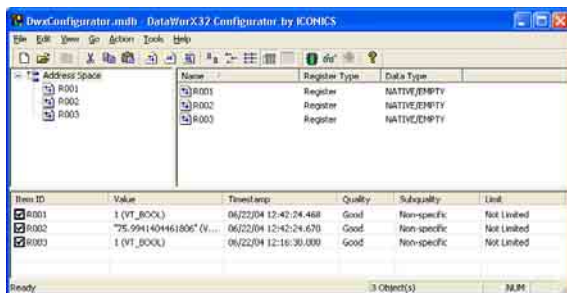


Figure 7

9. You can also see the tags in GraphWorX32. Add the point as explained above and put GraphWorX32 into runtime. You can see the value as shown in **Figure 8**.

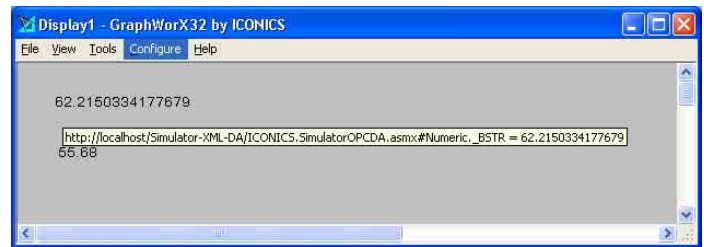


Figure 8