



DataWorX32 - Quick Start

APPLICATIONS NOTE

August 2004



Description: Quick start for configuring and connecting to DataWorX32

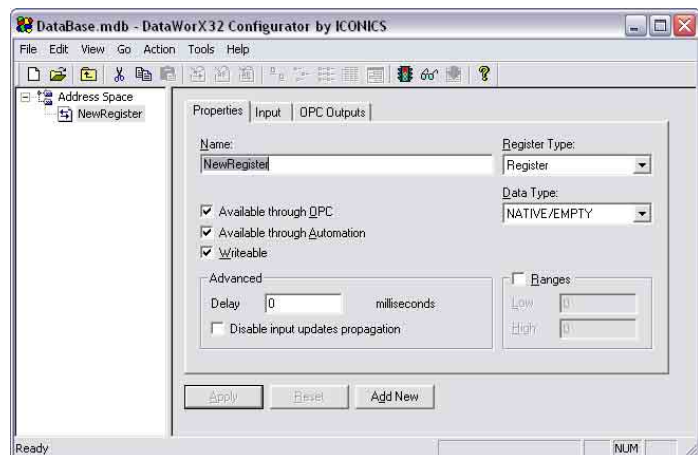
OS Requirement: Windows XP/2000/NT, 9x/Me.

General Requirement:

DataWorX32 allows you to manage SCADA/HMI applications in a simple way. DataWorX32 provides the following capabilities:

- **OPC Redundancy**
- **OPC Data Bridging and Data Exchange**
- **OPC Aggregation**
- **OPC Aliasing**
- **OPC Expressions**
- **Intranet/Internet OPC connectivity**

It adds the above functionality to GENESIS32 as well as any other OPC Data Access Client.



OPC Aliasing

You can configure Alias names that will be place holders for the actual OPC Tag names. For example you configure an alias called TEMPERATURE and connect it to an OPC Tag Vendor.OPCServer\OPCItem. Your OPC client can connect to the new name as
ICONICS.DataWorX32.8\[[TEMPERATURE]]

OPC Bridging

You can configure bridge OPC Tags (registers) which will read the OPC value from one tag and write the value to another OPC Tag. This functionality is powerful when you want to connect DCS systems from different vendors, or when you simply want to provide data from some PLC to some other PLC.

OPC Redundancy

You can configure redundant OPC communication channels. If one OPC Server fails, DataWorX will automatically switch to the backup OPC Server.

OPC Expressions

You can configure OPC Registers which will calculate a user-defined expression. The resulting value is exposed as a regular OPC Tag.

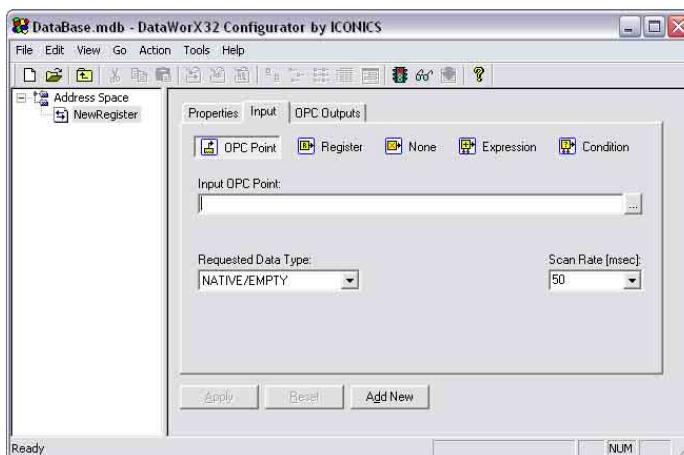
Internet/intranet OPC Connectivity

DataWorX32 utilizes GenBroker technology. This allows you to connect to any OPC Data Access Server running either locally or remotely on the network.

Configure DataWorX32:

To configure the DataWorX32 OPC Server, a few steps have to be completed.

1. Start the **DataWorX32** Configurator.
2. Select **File, New**, and give your database a name.
3. Right-click on the Address-Space, **New -> Register...** and specify a name for the Register.
4. Click the **Input** tab and Browse for an OPC Input.
5. When you find the appropriate OPC tag, click **OK** and return to the screen shown below.



6. Click **Apply**.
7. Click the Traffic Light to start **Runtime**
8. Start an OPC Client such as GraphWorX and Browse to the database name.
9. Start **runtime** and see the OPC Tag updating.