

Description: Guide to use Data Access connection into AlarmWorX32 Server for diagnostics

OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7

General Requirement: AlarmWorX32 must be installed

Introduction

AlarmWorX32 manages the Alarm and Event (A/E) information of your application. In particular, the ICONICS Alarm Server generates different types of alarms when configured correctly in the Alarm Configurator.

The server is an OPC A/E Server and an OPC Data Access client. The server monitors your process data and generates alarms as a server while allowing you to access alarm tags as process points as a client.

Once you have created a configuration, you can start you AlarmWorX32 server and the server starts generating alarms. You can use Data access connection into your AlarmWorX32 server for better diagnostics of this server.

The AlarmWorX32 Server exposes much of its real-time and configuration data via the OPC Data Access specification. This allows OPC Data Access client applications, such as GraphWorX32, to make use of alarm-related data without using the OPC Alarm & Events interface. Some typical uses would include:

Changing the color of a graphic symbol to correspond to alarm state.

Displaying alarm limits.

Allowing alarm limits to be changed by the operator.

This application note will walk you through the necessary steps to create DA connection into AlarmWorX32 Server.

Diagnosing AlarmWorX32 Server Using OPC DataSpy

1. Start the OPC DataSpy by going to Start → Programs → ICONICS TOOLS → OPC DataSpy
2. Navigate throw the tree to your AlarmServer and here you can monitor the server

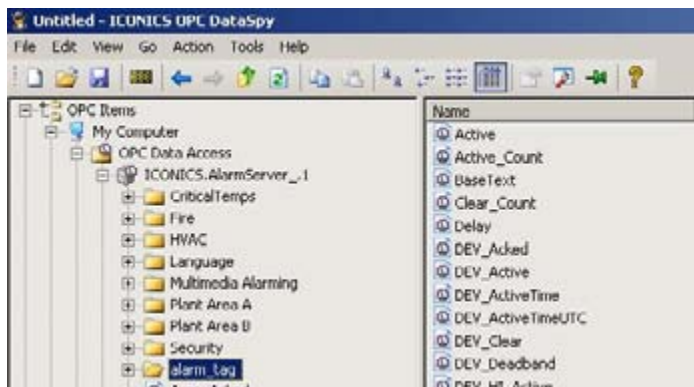


Figure 1 – Diagnosing using OPC Data Spy

NOTE: For more information about the DataSpy see the *OPC DataSpy - DataSpy Quick Start* application note.

Diagnosing AlarmWorX32 Server Using GraphWorX32

1. Start GraphWorX by going to Start → Programs → ICONICS GENESIS32 → GraphWorX32 → GraphWorX32
2. Insert new PPT (process point) into display and browse for your Alarm Server
3. Select some of the tag you will see or change and click OK
4. Go into runtime and you can see the value of this tag
5. You can also change this value if you write properly value into the PPT.

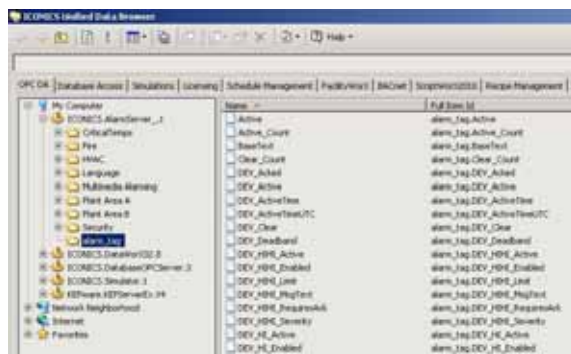


Figure 2 – Diagnosing Using GraphWorX32

NOTE: If you want write value into PPT you need to check the Data entry checkbox in the PPT configuration.