AlarmWorX64 Logger
Quick Start

APPLICATION NOTE

October 2015

Description: Guide to configuring and running the AlarmWorX Logger

Introduction

The AlarmWorX64 Logger provides a permanent copy of alarm and event notifications produced by any OPC UA/OPC AE Alarm and Events server, including the AlarmWorX64 Server. AlarmWorX64 Logger can store alarm data to a SQL database for later replay.

The alarm and event data are stored in a SQL Server database that is created and configured in the same manner as the other supporting GENESIS64 databases. The logger is configured within the Workbench where the logger service can be stopped or started.

The default configuration database that ships with the product is ready to be used. It shows you all the names of the columns that will appear in the log database. It already has a subscription to the alarm server and the GenEvent server and it even requests additional alarm attributes.

How to Configure AlarmWorX64 Logger

AlarmWorX64 Logger is configured using Workbench, a centralized project management application for GENESIS64. After installation, AlarmWorX64 Logger can work "out of the box" without any further configuration.

Let's take a look at the configuration.

1. Open the Workbench by going to Start → All Programs → ICONICS → Workbench.
2. Once you are in the Workbench, select AlarmWorX64 Logger in the Project Explorer as shown in Figure 1.

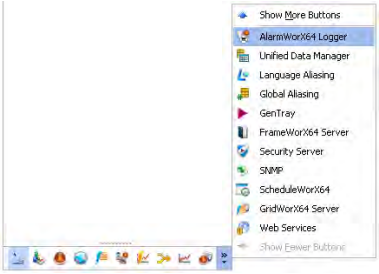

Figure 1 – AlarmWorX64 Logger in the Project Explorer

3. Once you select the application, the Project Explorer will show the configuration tree as shown in Figure 2.

Figure 2 – AlarmWorX64 Logger Configuration Tree

NOTE: If you see nothing in the explorer after selecting AlarmWorX64 Logger, it is possible that your security level blocked it. In this case, click File and select Log in/Log out to bring up the security login dialog to log in as a user with the appropriate permissions.

4. By default, there are two configurations already configured; one is for alarms and the other is for events.
5. Expand the "Alarms" and "GenEvents" items in the tree. You will see a list of items – these are the Columns that have been configured for each Logger configuration. For each item that is logged by the AlarmWorX64 Logger, the information for these columns will be recorded.

NOTE: Since AlarmWorX64 Logger works out of the box, you do not need to change anything. However, you can change the default configurations to suit your needs, or you can create new configurations.

6. Double-click on the "Alarms" configuration to open it on the current tab. In the Alarm Subscription, you can create a subscription to the alarm/event server which generates messages you want to store. Just click on the button to open Data Browser which you can use to locate the desired server.

NOTE: If you want to log alarms from the local AlarmWorX64 Server you do not have to change anything here.

7. Though you can use the "out of the box" configuration we recommend setting the Logging database to be different from the configuration database for better maintenance. In the Database Connection tab uncheck "Use Configuration Database for Logging" and specify the database connection by clicking on "Change Connection…" button.
8. When you are done configuring your AlarmWorX Logger, start the service by clicking on the traffic light in the Service section of the Home ribbon so that it becomes green. The service will collect data until you stop it again.

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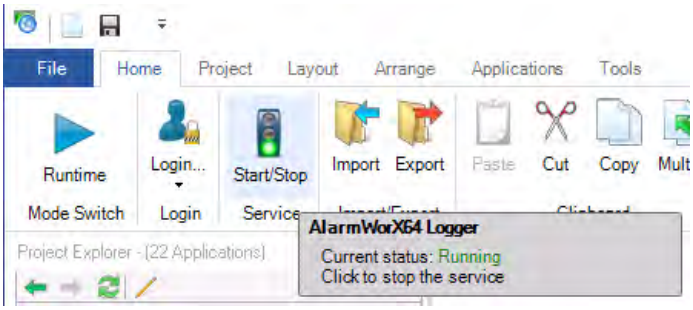

Figure 3 – AlarmWorX64 Logger Running

Creating a new AlarmWorX64 Logger Database

You can use the sample AlarmWorX64 Logger configuration database, or you can create your own.

1. Select the AlarmWorX64 Logger provider from within the Workbench.
2. Right-click on the "localhost" server in the tree, and select the option **New Database**.
3. Uncheck the "Use Default SQL Server" box. Select your SQL Server name, and your login method. Click Next.
4. Choose a Database Name for your new database, such as "AlarmWorX64 Logger Database". Check the "Include Sample Data" box if you wish to include sample data. Click Finish.
5. Your new AlarmWorX64 Logger database has been created. To make it the Active database, right-click on it in the tree and select "Make Active".

Advanced Logger Capabilities

For more information on configuring AlarmWorX64 Logger such as how to use printer logging, table management, event filtering, or redundancy, please refer to the Help files or other application notes.