



AlarmWorX32 - Report ActiveX Quick Start

APPLICATIONS NOTE

August 2004



Description: Quick Start for configuring and running the AlarmWorX32 Report ActiveX.

OS Requirement: The operating system required is Win 2003/XP/2000/NT/95/98/Me.

General Requirement:

AlarmWorX32 manages the Alarm and Event (A/E) information of your SCADA application. The following table shows the specific alarm management tasks and the AlarmWorX32 module performing the task. The highlighted task is described in this application note.

Functionality	AlarmWorX32 Module
Alarm Generator	ICONICS Alarm Server
Event Generator	GenEvent Server
Alarm & Event logging	Alarm Logger
Current A/E presentation	Alarm Viewer ActiveX
Historical A/E presentation	Alarm Report ActiveX
Multimedia Annunciation	AlarmWorX MMX
A/E container application	AlarmWorX32

Alarm Reporter Capabilities:

- Present historical Alarm & Event Data
- Create alarm & event reports
- Presentation is freely configurable.
- Multi-language support

EventTime	Tag	Message
9/20/2002 4:49:30 PM	Pressure	Very high deviation
9/20/2002 4:49:30 PM	Temperature	Normal Condition
9/20/2002 4:49:32 PM	Temperature	Normal Condition
9/20/2002 4:49:33 PM	Pressure	High deviation
9/20/2002 4:49:33 PM	Temperature	Low temperature
9/20/2002 4:49:33 PM	Temperature	Rate of change too big
9/20/2002 4:49:34 PM	Belt Speed	Belt Speed is normal
9/20/2002 4:49:34 PM	Compressor	Compressor gauge is reading normal
9/20/2002 4:49:34 PM	Humidity	Humidity is normal.
9/20/2002 4:49:34 PM	Level Gauge	Level gauge is normal.
9/20/2002 4:49:34 PM	Pressure	Very high deviation
9/20/2002 4:49:34 PM	Pressure	Normal condition
9/20/2002 4:49:34 PM	Tank PSI	PSI in Tank1 is normal.
9/20/2002 4:49:34 PM	Temperature	Normal Condition
9/20/2002 4:49:35 PM	Pressure	Small deviation
9/20/2002 4:49:35 PM	Pressure	High Pressure

Fig.1 Alarm Reporter in action

Configure the Alarm Reporter

To configure the Alarm Reporter, the following steps have to be completed.

1. Start **GraphWorX32** (or the A/E Container application)
2. Click the **ICONICS AlarmWorX32 Report ActiveX** which can be found in the ActiveX Toolbar. A yellow screen will appear.

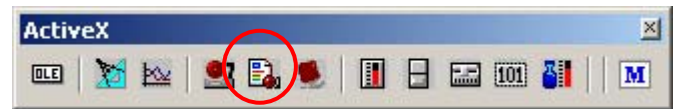


Fig. 2 ActiveX Toolbar

3. Double-Click the Alarm Reporter ActiveX in order to change its properties.

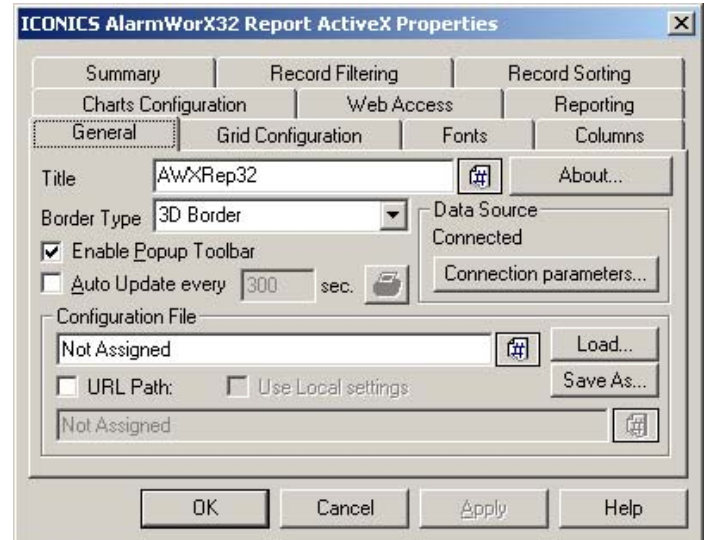


Fig. 3 Alarm Reporter Properties

4. Click the **Connection Parameters...** button
5. Specify the type of your alarm log database and then click Build Connection String to connect to the appropriate database. Or use the Iconics Sample alarm Database, **AWXLog32.mdb** in the Iconics/genesis-32/examples/gen32demo directory.
6. Select the Base Table Name of the Logging or Archive database to connect to (default is **Eventlog**).
7. Click the **Connect** button
8. Then click **OK**.

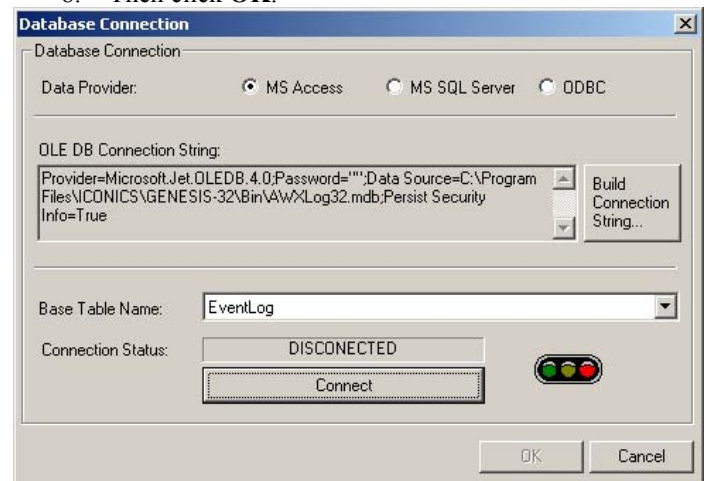


Fig.4 Connection to the alarm database



Runtime Features:

9. Start **Runtime** from the GraphWorX32 menu.
10. Double-Click the Reporter ActiveX in order to show the Reporter's toolbar. The toolbar allows you to present alarms in different ways.



Fig.5 Alarm Reporter Toolbar

11. You can use the toolbar to change views between a **Detailed** and **Summary** view by using the two leftmost buttons.
12. Click on the **Pie Chart** symbol on the toolbar to bring up a pie chart view of the historical alarms. Click on the **Bar Chart** symbol on the toolbar to bring up a bar chart view of the historical alarms.
13. The contents of the Alarm Report ActiveX can be printed from the toolbar. You can also generate a **Detailed Alarm Report** or a **Condensed Alarm Report** in Crystal Reports.
14. Click on **Update Alarm Data** (the lightning bolt) in the toolbar to update the Alarm Reporter's data from the database.
15. The Alarm Reporter supports alarm sorting, which is accessible through the **Sort Alarms** button on the Alarm Reporter Toolbar. Alarm sorting can be configured as shown below:

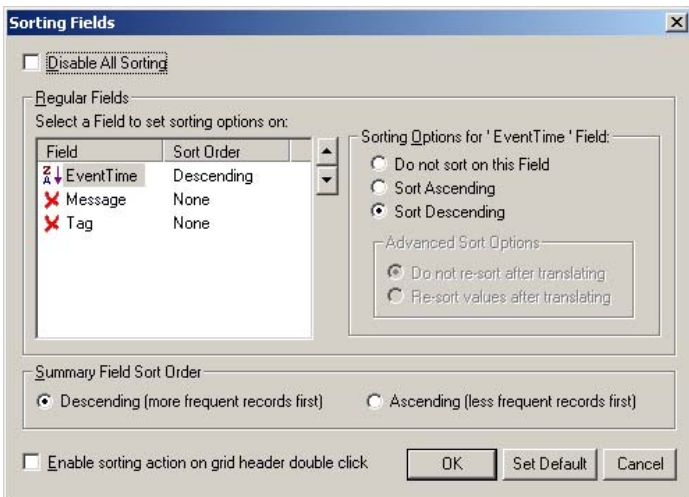


Fig. 6 Alarm Report Sorting

16. You can filter out specific data to be displayed in the Alarm Report ActiveX by clicking on the **Filter Alarms** button in the toolbar. The following screen allows you to add, delete, and configure multiple filters that can be used simultaneously:



Fig.7 Records Filtering Menu

17. Select one of the alarm filters and click **Config Filter...** to configure the alarm filter as shown below:

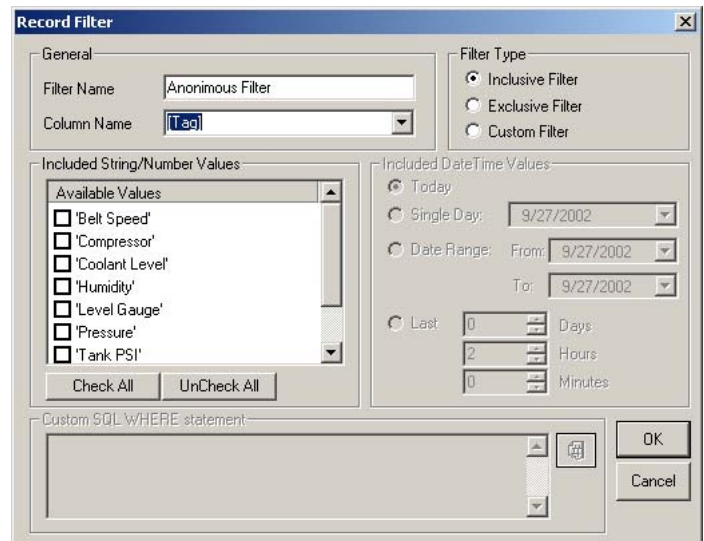


Fig. 8 Record Filter Configuration