



AlarmWorX32 - Alarm Logger Quick Start

APPLICATIONS NOTE

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Description: Quick Start for configuring and running the Alarm Logger

OS Requirement: The operating system required is Win 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

Capabilities:

- The alarm logger is an OPC A/E Client.
- The alarm and event data may be stored in an ODBC database (Access, MSDE, SQL) and/or sent to a printer.

Configure the Alarm Logger

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

1. Start the **Alarm Logger Configurator**. Click Start, Programs, ICONICS GENESIS-32, AlarmWorX32, Alarm Logger Configurator
2. Select the **File, Save As** and specify **myAlarmLogger.mdb** as the name for your configuration file.
3. Select **File, Make Active** from the menu. And select Yes to activate your Database

The configuration 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 event server and it even requests additional alarm attributes.

The only thing left for you to do is to tell the logger where it needs to log the data to. You will need to make a Data Source Name. (DSN)

In order create this ODBC data source:

1. Double click on **Configurations** and click on **default**. The following screen will appear:

2. Click the ODBC data source button . (red circle)
3. Select the tab **Machine Data Source**
4. Click the **New...** button
5. Select **System Data Source** and click Next
6. Select **Microsoft Access (*.mdb) driver** and click Next
7. Click **Finish**
8. Type the Data Source Name **ALARMLOG**
9. Click the **Create...** button
10. Give a database name **ALARMLOG.MDB**
11. Click **OK** a few times until you're back in the alarm configuration dialog.
12. Click the **Apply** Button in order to apply the changes

Start the Alarm Logger

To start the alarm server you can use the **GenTray** system tray icon

4. Click Start, Programs, ICONICS GENESIS-32, Tools, GenTray
5. Click on the purple **GenTray** icon in the bottom of your screen, next to the windows time.
6. Select **AlarmWorX32, Logger, Start**

This will do the same as clicking on the traffic light

View Historical Alarms !

You can look at historical alarms using for instance MS-Excel and select Get External Data from its menu. You can also place the ICONICS Alarm Report ActiveX in your GraphWorX32 display.



Advanced Logger Capabilities

The logger can log the alarms translated or untranslated(using languages aliases). The translation feature is only possible with the Unicode GENESIS on WinNT/2000/2003. The language aliases will then be resolved into the proper language and stored to the database.

One can change the **Subscription** of the alarm logger to ask alarm server only the most relevant data you want to log. From this data you can even add a filter that selects only a subset from the alarm data.