



AlarmWorX32 - Server Quick Start

APPLICATIONS NOTE

August 2004



Description: Quick Start for configuring and running the Alarm Server

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

Capabilities:

- The ICONICS Alarm Server monitors your process data and generates alarms. The alarm server is in fact an OPC **Data Access Client** as well as an OPC **A/E Server**. The alarm server allows you to configure alarm tags. Each tag has its own OPC DA input tag. The alarm tag can monitor limits, rate of change, digital states, or deviation in the process value.
- Configuration Export/Import CSV (comma separated variable format) or XML Export/Import for bulk editing alarm tag lists in for instance Text Editors.
- Online configuration

Configure the Alarm Server

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

1. Start the **Alarm Server Configurator**. Click Start, Programs, ICONICS GENESIS-32, AlarmWorX32, Alarm Server Configurator

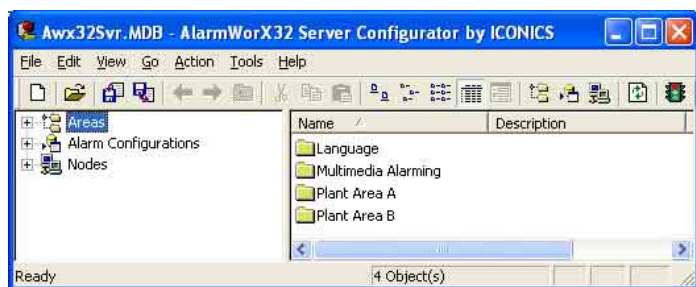


Fig.1 Alarm Server Configurator.

2. Select **File, New** from the menu and click **Next** in the Wizard dialog.
3. Select **Create new configuration in MS Access database** and click **Next**.
4. Specify the name and location of your alarm configuration as shown in figure 2 and verify that the **Make Database Active** checkbox is activated.
5. Click **Finish**.

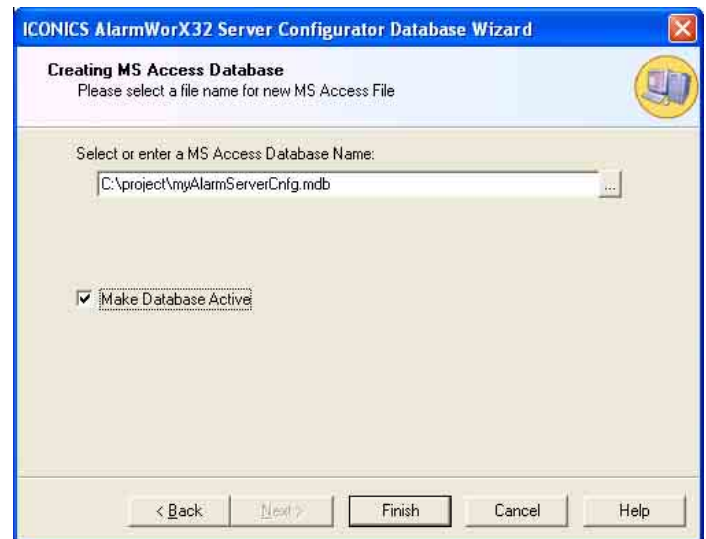


Fig.2 Name and location of alarm configuration database.

6. Right-Mouse click **Alarm Configurations** in the left window and select **New, Configuration**.
7. Specify the Name: **Default**, ensure that the **Default Configuration** checkbox is enabled and click **Apply**.

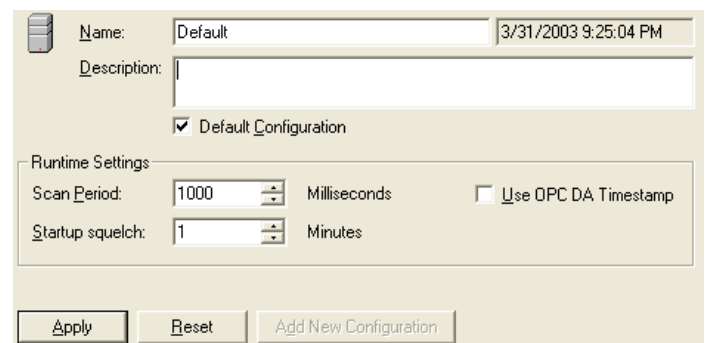


Fig.3 Name and location of alarm configuration.

8. Right-Mouse Click on **Areas** and select **Insert, Area**
9. Type a logical name for your alarm area: **BOILER**



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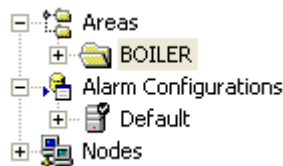


Fig.4 Alarm Area for logically grouping alarm tags.

10. Right mouse click on your alarm configuration **Default** in the left window, and select **New, Tag**



Fig.5 Adding Alarm Tags to the configuration.

11. Specify the tag name **Temperature** and specify the settings as shown below.

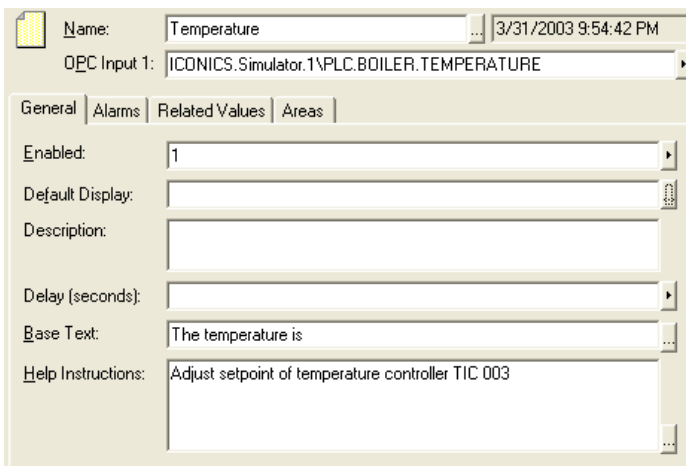


Fig.6 Alarm Tag general settings.

12. Select the **Alarms** tab and specify the **Limit** setting as shown below and click **Apply**.

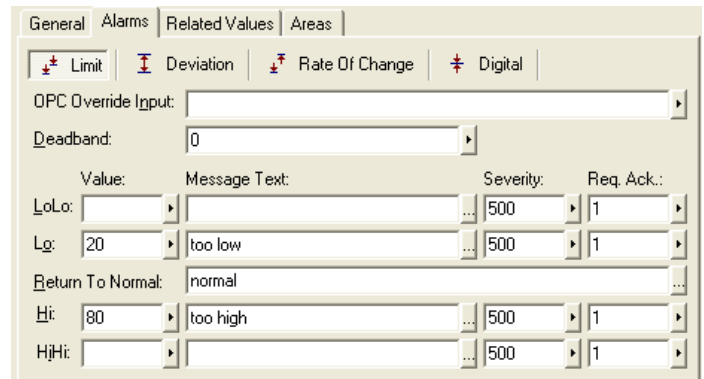


Fig.7 Alarm Tag with limit checking.

13. Click **Areas** tab, click **Add** and double click the area **Boiler**.

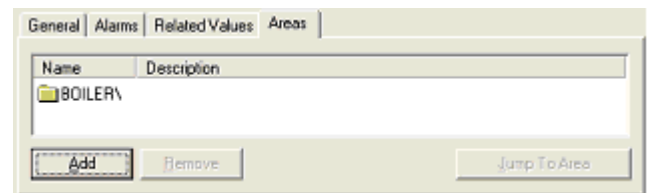


Fig.8 Associate alarm tag with logical area.

Now let's add an Alarm Tag with digital states:

14. Right mouse click on your alarm configuration **Default** in the left window, and select **New, Tag**.

15. Specify a name for the alarm tag, for instance **VALVE**

16. Select the **Digital** tab and specify the setting as shown below and click **Apply**.

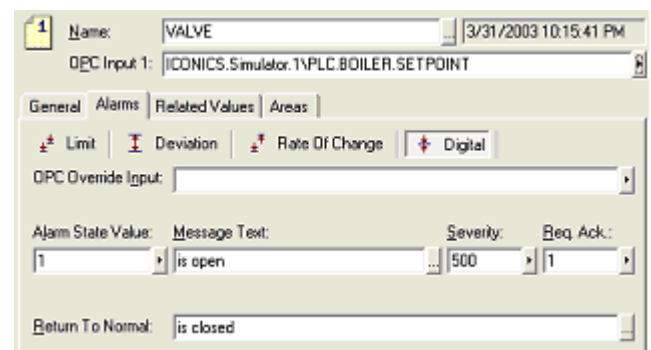


Fig.9 Alarm Tag with digital states checking.

17. Click **Areas** tab, click **Add** and double click the area **Boiler**.

18. To start the alarm server you can use the **GenTray** system tray icon. Click **Start, Programs, ICONICS GENESIS-32, Tools, GenTray**

19. Click the pink **GenTray** icon in the bottom of your screen and select **AlarmWorX32, Server, Start**



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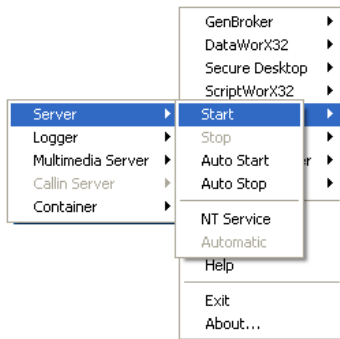


Fig.10 Start Alarm Server using the GenTray.

Clicking on the traffic light will do the same.