

Description: Guide to configuring and running AlarmWorX32 Multimedia.

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

General Requirement: Installation of necessary equipment and OPC servers

Introduction

AlarmWorX32 Multimedia version 9.x adds multimedia capabilities to your OPC Alarm & Event Servers. Multimedia agents can send out Alarm notifications via email, sound, text to speech, marquee windows, phone, etc.

The AlarmWorX32 Multimedia Server subscribes to alarm and event servers and filters those alarms on which multimedia alarming is required. The Multimedia Server then triggers the appropriate multimedia agent, which performs the actual notification.

AlarmWorX32 Multimedia provides the following capabilities:

- Multimedia alarm notification
- Configurable media templates
- Configurable personnel schedules
- Alarms subscription to Alarm and Event servers on the local computer or the intranet/internet
- Alarms notification to multimedia agents on the local computer or to agents on the intranet/internet

Creating a Multimedia Configuration

It involves many steps to complete the creation of a Multimedia configuration. Let's begin by setting up a configuration database.

1. Click **Start → Programs → ICONICS AlarmWorX32 Multimedia → AlarmWorX32 Multimedia Configurator**.
2. If this is the first time you are trying to launch the configurator, it will go through and create the configuration database when you open it. If you have opened the configurator previously, you can select **File→New** in order to make a new configuration once the configurator opens.
3. The **Media Configuration Database Wizard** will guide you through setting up a new SQL database.
4. Select **File → Make Active** in order to ensure that your new configuration becomes active. (If **Make Active** is grayed out, then the configuration is already active.)

Subscriptions

A subscription defines a connection to the alarm server. It specifies which alarms the multimedia component should consider during run time.

1. Expand **Alarm Inputs → OPC Subscriptions**.
2. Right click on **OPC Subscriptions → New → OPC Subscription** to make a new subscription.
3. Click the **Subscribe/Edit** button.



Figure 1 - Subscribe to an OPC Alarm Server

4. Verify that the subscription contains your required settings (priorities, areas, categories etc). You may want to have a specific area in your Alarm Server to which you subscribe. This would ensure that we only receive the relevant multimedia alarms. You can also use a Global Subscription if you have configured one in the Unified Data manager.

Filters

Filters allow you to filter an alarm subset. You can make filters that filter only a specific alarm tag or a group of alarms.

1. Select **Alarm Inputs → Alarm Filters** from the tree control.
2. Right-click on **Alarm Filters** and select **New → Alarm Filter**.
3. Give the filter a name and click on the **Edit Filter...** button.



Figure 2 - Filter

NOTE: if you already have a filter created in the Unified Data Manager, you can select "Get Global Filter..." and then select the filter you want to use.

4. The filter wizard will pop up. You can use the filter wizard to create a filter of your choosing.

Media Templates

Media templates describe the format of the alarm notification message.

1. Select **Alarm Configurations** → **Media Templates** from the tree control.
2. Right-click on **Media Templates** and select **New** → **Media Template**.
3. Type the name, “my Sound Speech” and select **Sound / Text-To-Speech** as the template type.
4. Click the **Insert Body field...** button and select **Text** for the field type.
5. Type the text string “Attention Please...” and click the **Insert** button.
6. Click the **Insert Body field...** button again and select **Alarm Field** for the field type.
7. Select **Time** for the field name and click the **Insert** button.
8. Click the **Insert Body field...** button one more time and select **Alarm Field** for the field type.
9. Select **Message** for the field name, click the **Insert** button, and then click **Apply**.

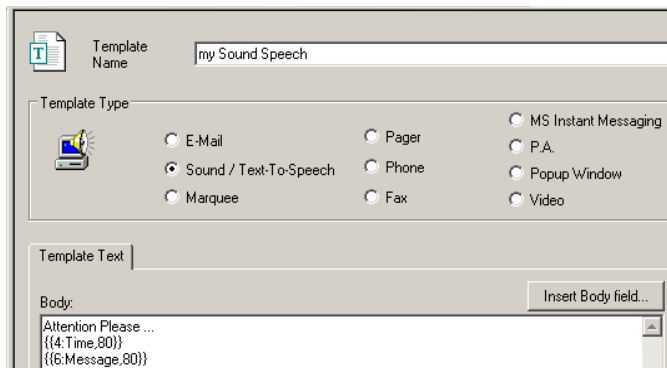


Figure 3 - Multimedia Template

Multimedia Agents

Multimedia agents perform the actual alarm notification.

1. Select **Alarm Configurations** → **Multimedia Agents**, → **Sound / Text-To-Speech** from the tree control.
2. Click the **General Settings...** button and specify a voice. You can also change some of the settings of the voice.

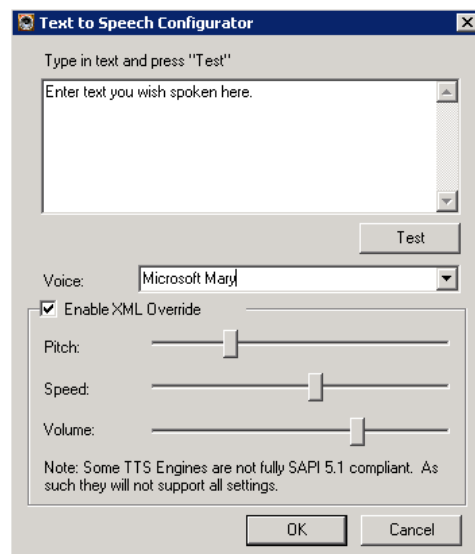


Figure 4 - Text to Speech Configurator

3. Expand the branch under the Sound / Text-To-Speech tree and verify the settings of the Local Sound Card.
4. The Node to Play Sound On should be kept blank. This way the sound agent will speak through the speakers of your local computer. The Template Name can be set to “my Sound Speech”. Apply the changes and click the **TEST** button to hear the voice speak.

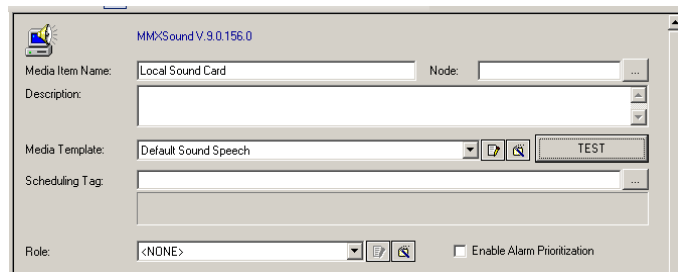


Figure 5 - Text to Speech Agent Settings

Alarm Action Sets

The alarm action set specifies the alarm actions to performed when an alarm occurs.

1. Select from the left tree **Alarm Configurations** → **Default**.
2. Right-click on **Default**, select **New** → **Alarm Action Set**, give it a name, and select the filter you created earlier.
3. Set the action destination for **On Alarm** to use your Local Sound Card.

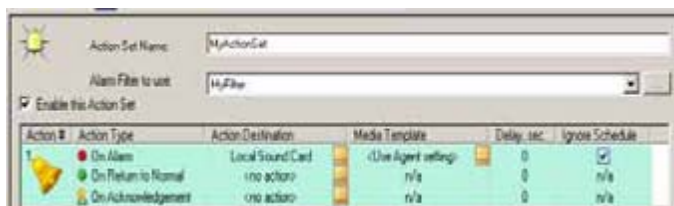


Figure 6 - Alarm Action Set

- Please delete the action sets you do not plan to use. For example, e-mail, messenger, and video. Simply select them and hit the **Delete** key on your keyboard. You can always add new actions at a later stage.

Runtime

Click the traffic light to start the AlarmWorX32 Multimedia Server. A green light indicates that the server is running. Your sound card should play the wave files once an alarm occurs. The server can also be started as a Windows Service or by using the ICONICS system tray called GenTray.

Internet/Intranet

In order to allow intranet/internet based alarm subscriptions or alarm notification you will need to configure either Microsoft DCOM or ICONICS GenBroker. Please refer to the application note entitled *GenBroker – Introduction to GenBroker Communications* for further details.