

# InTouch 7.11: Setting-up the Alarm DB Logger Manager and the Alarm DB

### LEGACY TECH NOTE #

281

#### SUMMARY

This Tech Note describes how to setup Alarm DB Manager Logger and Alarm DB View ActiveX Control in InTouch 7.11. The procedure described here consists of the follow

## Explanation of the Three Main Alarm Executables

- Setting up Alarm DB Logger Manager. Connecting to the Server and creating the alarm database.
- · Setting up the Alarm DB View ActiveX Control.
- · Writing Script to change the nodes and/or servers in the Alarm DB View ActiveX Control.
- · Known issues regarding the topic.

#### SITUATION

### **Explanation of Alarm Executables**

- Alarmmgr.exe This is the Distributed Alarm system. It launches when View or any of the InTouch Alarm utilities are started.
- Alarmlogwiz.exe This is the Alarm Logger Manager utility and is used to configure the Alarm Logger. This can be started via WindowMaker or the Start menu shortcut
- Wwalmlogger.exe This is the Alarm Logger Utility. It logs alarms to the database. For automatic startup this executable can be placed in the Startup Folder or launche the Alarm DB logger Manager (Almlogwiz.exe) via the Start button. This can be done from either, WindowMaker or Start menu shortcut.

#### **ACTION**

### Setting up Alarm DB Logger Manager

1. In WindowMaker, double-click the Alarm DB Logger Manager (this starts the Alarmlogwiz.exe) and click Settings.

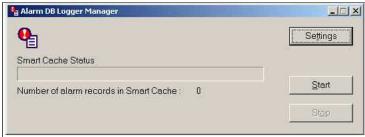


Figure 1: Alarm DB Logger Manager

The Alarm DB Logger Manager - Configuration dialog box opens:

- SQL Server/MSDE	RE001 ▼
Server Name   I Conserve	ANCEDO I
UserInfo	Logging Mode
User Name sa	
Password	C Consolidated
Test Connection	Create

Figure 2: Alarm DB Logger Manager-Configuration

- 2. Under SQL Server/MSDE either select your SQL Server Machine Name from the drop-down box or type it in the space provided.
- 3. Under User Info type in the User Name and Password for the server. Under Logging Mode, select Detailed or Consolidated depending on how you would like your data

**Note:** Consolidated Mode - In this mode all states of an alarm (ALM, ACK, and RTN) are stored in a single record showing the time stamp for each transition. This is the rec (ALM, ACK, and RTN). The alarm database grows significantly faster when it is configured to store records in the Detailed Mode.

- 4. Select **Test Connection**. If you get the message **Unable to connect to database** check your database name.
- 5. If you receive the error: Connection to server not available check the Microsoft SQL Server Security model (under Properties/Security/Authentication) and make sure you security model.

After testing the connection you will need to create the Alarm DB Logger database (if it doesn't already exist).

6. Simply click the Create button. The Alarm DB Logger automatically creates the necessary data.

Caution! If an Alarm database already exists, creating the tables again destroys your data. If a pre-existing database is detected, a dialog asks you to confirm whether this

7. Select Next.

The  ${\bf Alarm\ DB\ Logger\ Manager\ -\ Query\ Selection}$  dialog box opens:

Alarm State	All	From Prior	ty [1	
Query Type	Historical	<u>I</u> o Priority	The state of the s	
\\Techsupp99\I	1\InTouch!\$System nTouch!\$System			-
\InTouchI\$Syst	em			
RI .				<u>v</u>

Figure 3: Alarm DB Logger Manager - Query Selection

Under Query Details the Alarm State field is set by default to All and the Query Type field is set by default to Historical. These fields cannot be changed.

- 8. Select the Alarm Priority levels you would like to have logged to the WWALMDB by typing the desired values in the From Priority and To Priority fields. Use either the a
- 9. In the Alarm Query box type in the queries you would like to pull data from, to log to your WWALMDB database, using the following syntax:

\\Nodename\Provider!AlarmGroup (file://\\Nodename\Provider!AlarmGroup)

Example: \\Node1\InTouch!\$System (file://\\Node1\InTouch!\$System)

Note: Distributed Name Manager Alarm groups are not supported in this alarm logging system.

10. Select Next.

The Alarm DB Logger Manager - Advanced Setting dialog box opens:

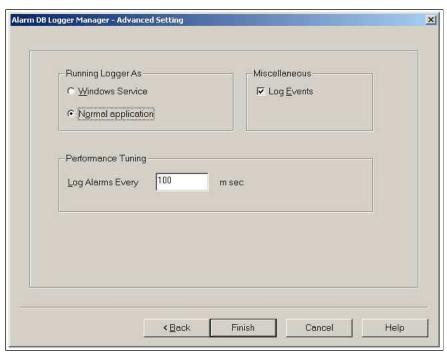


Figure 4: Alarm DB Logger Manager - Advanced Setting

11. Under Running Logger As, select either Windows Service (if you want to run the application as a Windows Service) or Normal Application.

If you want all events to be logged in the events table you need to check the Miscellaneous/Log Events option.

12. Under **Performance Tuning**, in the **Log Alarms Every** box, type the number of msec you would like to have between your alarms logged. Your system performance wi 13. click Finish. The Alarm DB Logger Manager will save all the settings and will switch back to the opening window. Now you can start the alarm logging process.

# Setting Up the Alarm DB View ActiveX Control

- 1. In WindowMaker, open the window you want to place the Alarm DB View ActiveX Control onto.
- 2. Click the Wizard Hat to display the Wizard Selection dialog box.

ActiveX Controls should be the first ones on the list.

3. Double-click the AlmDBViewCtrl wizard and place the object on the window and click once on the window to drop it. Stretch the object to the required size.

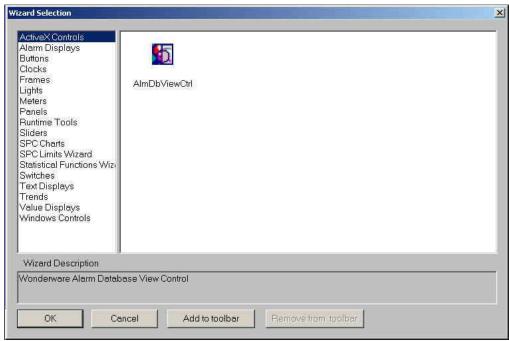


Figure 5: AlmDbViewCtrl ActiveX Control

Note: If you do not see the Alarm DBViewCtrl in the Wizard Selection you will have to go to Special/configure/ActiveX Installations.

- 1. Go to the ActiveX Control Installation Tab.
- 2. In the lower window scroll through the list and find the Wonderware Alarm Database View Control.
- 3. Highlight it and click the Install button on the right. The Wonderware Alarm Database View Control should now appear in the Installed ActiveX Controls window.
- 4. Click OK.
- 5. Click on the Wizard Hat as instructed above to place the ActiveX on your window.
- 6. Double-click the Alarm DB View ActiveX Control Object to open the AlmDbViewCtrl1 Properties dialog box.

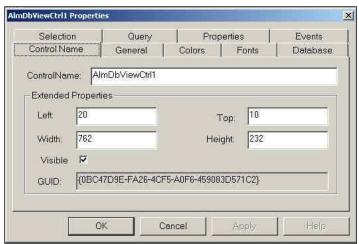


Figure 6: AlmDbViewCtrl1 Properties

7. Under the Control Name tab you can use the default settings or make adjustments to the size and name of the object.

The Visible check box allows you to make the control visible/invisible during runtime.

Under the General tab options you can leave the default settings or change them according to your application requirements.

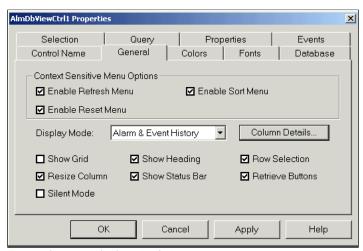


Figure 7: General tab Configuration Options

- 8. Click the Display Mode drop-down box to choose between Alarm History, Events History or Alarm & Event History view options.
- 9. Choose Column Details to select the columns to be displayed, to change their names, to adjust their width, and to specify the order in which they will be displayed.

You can change the Runtime Features of the control by acting upon the following check boxes:

- Show Grid enables/disables the display of the grid.
- · Resize Column enables/disables the column resize.
- Silent Mode enables/disables the display of error messages.
- Show Heading enables/disables the display of the heading of the control.
- Show Status Bar enables/disables the display of the status bar (shows the current status of the control).
- · Row Selection enables/disables the row selection option. If the row selection is disabled no click or double-click events can be generated.
- Retrieve Buttons enables/disables the display of the retrieve buttons at the right side of the control.
- 10. Under the Colors tab options you can accept the defaults or you can choose the Property Name drop-down box and the System Color drop-down box to select the color

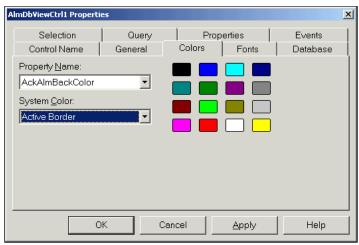


Figure 8: Colors Tab Options

Under the Fonts tab you can either use the default settings or adjust them using the drop-down and scroll boxes to choose among the options.

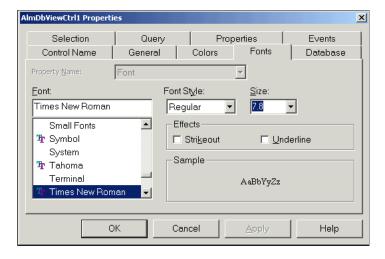


Figure 9: Fonts Tab Options

Under the Database tab you must choose a Server Name.

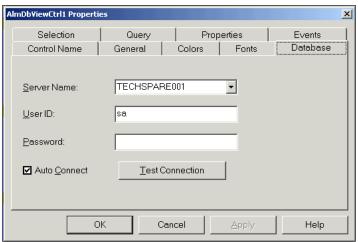


Figure 10: Database Connection Options

You can either use the drop-down menu (which should list all SQL Server and MSDE Server names on your network) or you can type one in. You must also enter a User ID Click the Test Connection button to test your server connection. You should get a message stating Successful Connection.

If you have already completed Step 1 you will also have a message stating the database on Server\_\_ is in Detailed/Consolidated mode. If you have not completed Step 1 y Alarm DB Logger Manager as noted in Step 1. If you get a message stating Connection to Server Failed you will need to make sure the server is running or test the connec ActiveX Control.

Under the Selection tab. Select the Date and Time format you wish to have displayed or use the default settings. If the Date and Time check boxes are not selected, no dar



Figure 10: Date/Time Selection Tab

The **Use Specific Time** check box enables/disables the user's ability to enter a specific Start Time and End Time. If the Use Specific Time check box is not selected the Start Select the Maximum Records you would like to display. The maximum records can be between 1 and 1000. Performance can be affected if the maximum records is set too Under the **Query** tab the **Provider Name** should be left blank.

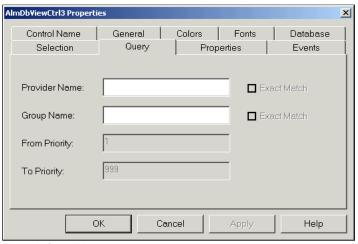


Figure 11: Query Tab

It could be set to InTouch (there will be more Provider options in the future). However, we find more stable behavior leaving it blank at this point in time. The Group Name is check the Exact Match check boxes if you want to enable the exact comparison of the ProviderName/Group Name given by the user to that in the database. When the Exact Providers/Groups whose names are a sub-string of the Provider Name/Group Name.

Choose the From- and To Priority levels you want to display.

Under the Properties tab you can assign tags to the various properties associated with the control. Click on the Advanced button to apply filter specifications.

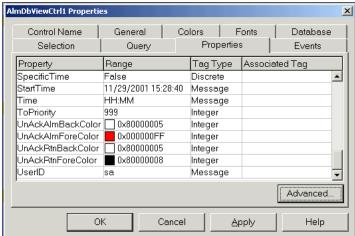


Figure 12: Properties Tab Options

Under the Events tab assign script functions to the various events that can take place in this control.

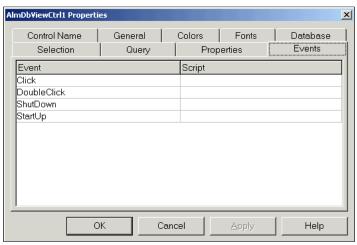


Figure 13: Events Tab Options

# Writing Script to Change the Node and/or Servers in the Alarm DB View ActiveX Control

Once you have setup your Alarm DB View ActiveX Control you can write additional script to change providers (nodes) and/or servers on the fly. To illustrate we will use Pus

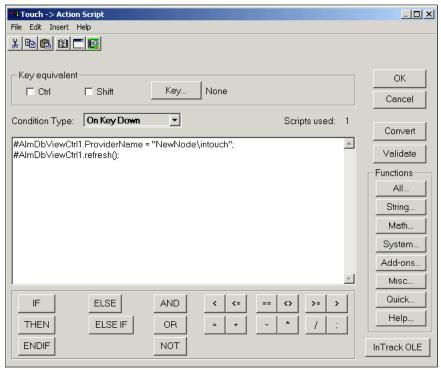


Figure 14: Pushbutton Action Scripts

Create a Pushbutton and add the following action script to change the Provider (node). The data will be retrieved from the database for the given provider.

```
#AlmDbViewCtrl1.ProviderName = "NewNodeHere\intouch";
#AlmDbViewCtrl1.refresh();
```

Create a Pushbutton and add the following action script to change the Server Name to which the control connects.

```
#AlmDbViewCtrl1.ServerName = "NewServerHere";
#AlmDbViewCtrl1.Connect();
```

Create a pushbutton to go back to the original Provider:

```
#AlmDbViewCtrl1.ProviderName = "OriginalNodeName\intouch";
#AlmDbViewCtrl1.refresh();
```

Create a pushbutton to go back to the original Server:

```
#AlmDbViewCtrl1.ServerName = "OriginalServerName";
#AlmDbViewCtrl1.ProviderName="intouch";
#AlmDbViewCtrl1.Connect();
```

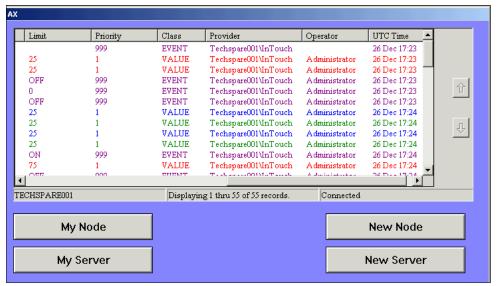


Figure 15: Runtime Button Behavior

By displaying the Provider column in the Alarm DB View ActiveX as well as the Status Bar you can verify that you are querying the correct Server/Provider.

Note: My Server = TECHSPARE001( displayed on left side of the Status bar) and My Provider = Techspare001\InTouch displayed under the Provider column.

Note: The lower right area of the Status Bar will display one of the following messages: In Progress, Connected or Not Connected. It is possible that you will wait a few seci

### SUPPORTING INFORMATION

## Known Issues

CRI0018293 -- AlarmDBView Control: Query for group name does not query all alarms for that group and all derived groups

There is no workaround for groups other than \$System. If you want to display all alarms (\$System and any other group), leave the Group Name field blank It is not possible to query two alarm groups like aaa and bbb.

However, if the groups are named Groupaaa and Groupbbb then you can use Group (without the quotes) as the Group Name and that will return all alarms for Groupaaa ar

CRI0020250 -- (in Patch03 release notes) - The "Timeout expired" error message appears, when AlarmDBView ActiveX queries a large (275,000 entries) WWAImDB datab

#### Problem:

The error message, "Timeout expired," appears when AlarmDBView ActiveX queries a large (275,000 entries) WWAImDB database.

The timeout value can now be controlled through the registry, as follows:

• Manually define a DWORD value "ConnectionTimeOut" under the registry key, "HKEY\_LOCAL\_MACHINE\SOFTWARE\Wonderware\AlarmDBView\Database."

A default value of 120 seconds will be assumed if this key is not present in the registry.

#### **AUTHOR NOTES**

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