Tech Note 890

Alarm DB Logger Status Functions (Windows 7 and Server 2008 R2)

Topic#: 002697
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Introduction

This *Tech Note* explains using several functions that can be configured from InTouch® to monitor the current status of the Alarm DB Logger.

Application Versions

- InTouch 2012
- Windows 7 (32- and 64-bit)
- Windows Server 2008 (32- and 64-bit)

Function Constraints

- These functions can only access the local Alarm DB Logger, therefore the Alarm DB Logger has to be running on the InTouch node.
- In a Terminal Services Environment, only the InTouch application running in the console can get the status from the Alarm DB Logger running in the console either as an application or a service.
- WindowViewer running in a terminal session cannot access the status of the Alarm DB Logger running in the console.
- The functions cannot execute from an Application Server script.

Adding the Functions to InTouch

These functions are not exposed by default. In order to see and use the functions in InTouch, you must create a set of registry entries using the following steps.

Edit the Registry

1. Click **Start** and type **regedit** into the search field.
2. Navigate to **MyComputer\HKEY_LOCAL_MACHINE\Software\Wow6432Node\Wonderware**.

3. Create a new Key called **AlarmDBLogStatus** for Wonderware.
4. Create new DWORD entry **EnableAlarmDBLogStatus** with the value **1**.
5. **Optional:** Create an additional entry **SmartCacheStatusLoggingRate** with a decimal value of **10,000**.

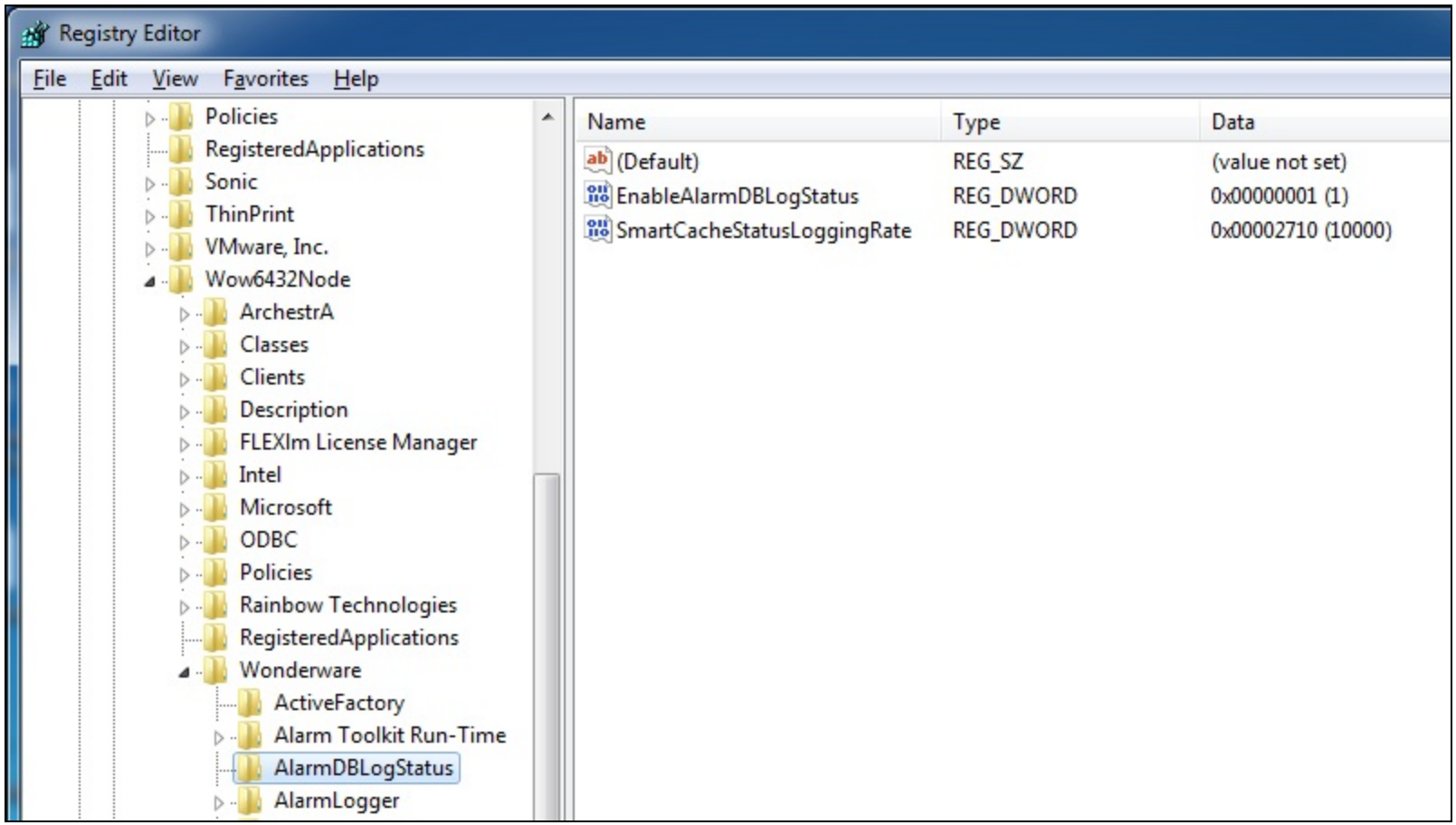

Figure 1: New Registry Entries

6. Close the Registry Editor.

- **EnableAlarmDBLogStatus** is the setting that enables Alarm DB Logger diagnostics.
- **SmartCacheStatusLoggingRate** is time interval at which the Alarm DB Logger provides the diagnostics to WindowViewer. If this value is not configured, the default is 1 minute.

Configuring InTouch

1. Open a new application and add the Application script by clicking **Special / Scripts / Application Scripts**.

   Type: While Running Every: 1000 Msec

Script:

```
AlarmLoggerCacheCount = GetAlarmLogCacheCount( );
AlarmLoggerConnStatus = GetAlarmLogConnStatus( );
AlarmLogMaxCacheCount = GetAlarmLogMaxCacheCount( );
```

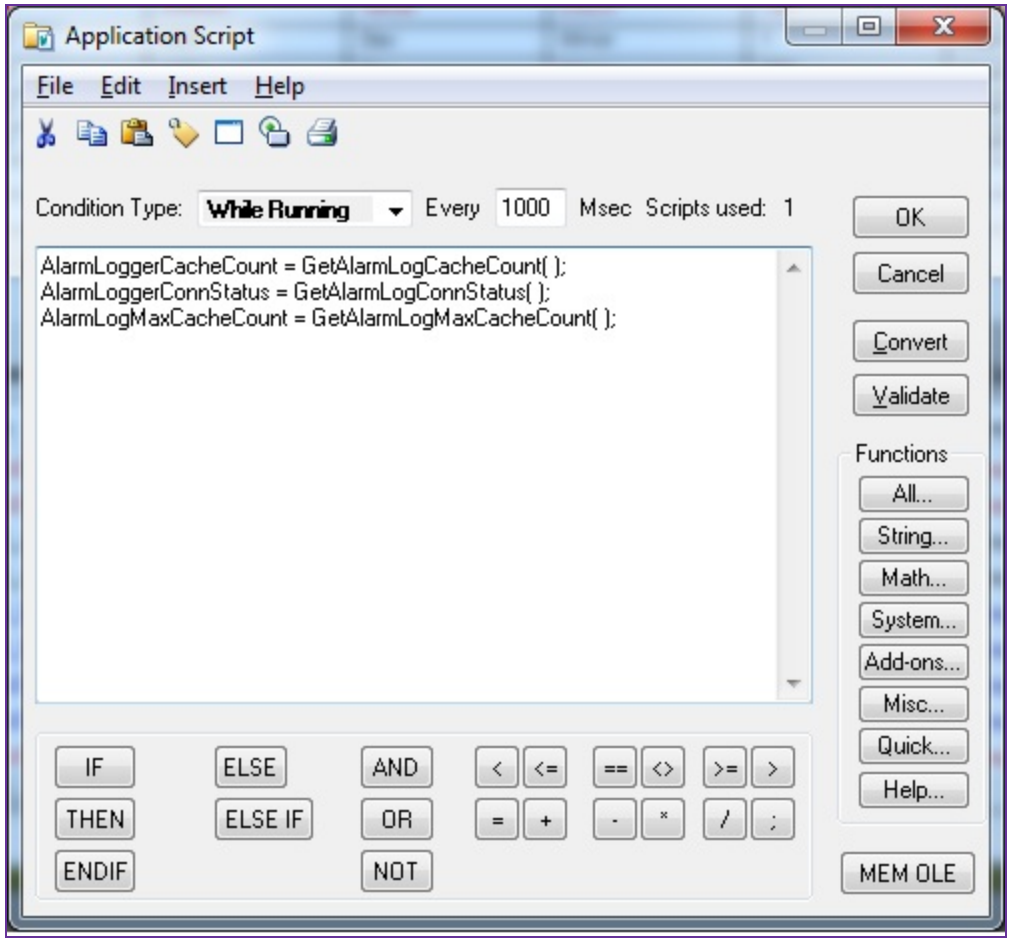

Figure 2: New Application Script

2. Configure the tag as shown in Figure 3 (below).

   Type: Memory integer
   Group: $System
   Initial Value: 0
   Min Value: -999999 and
   Max Value: 999999

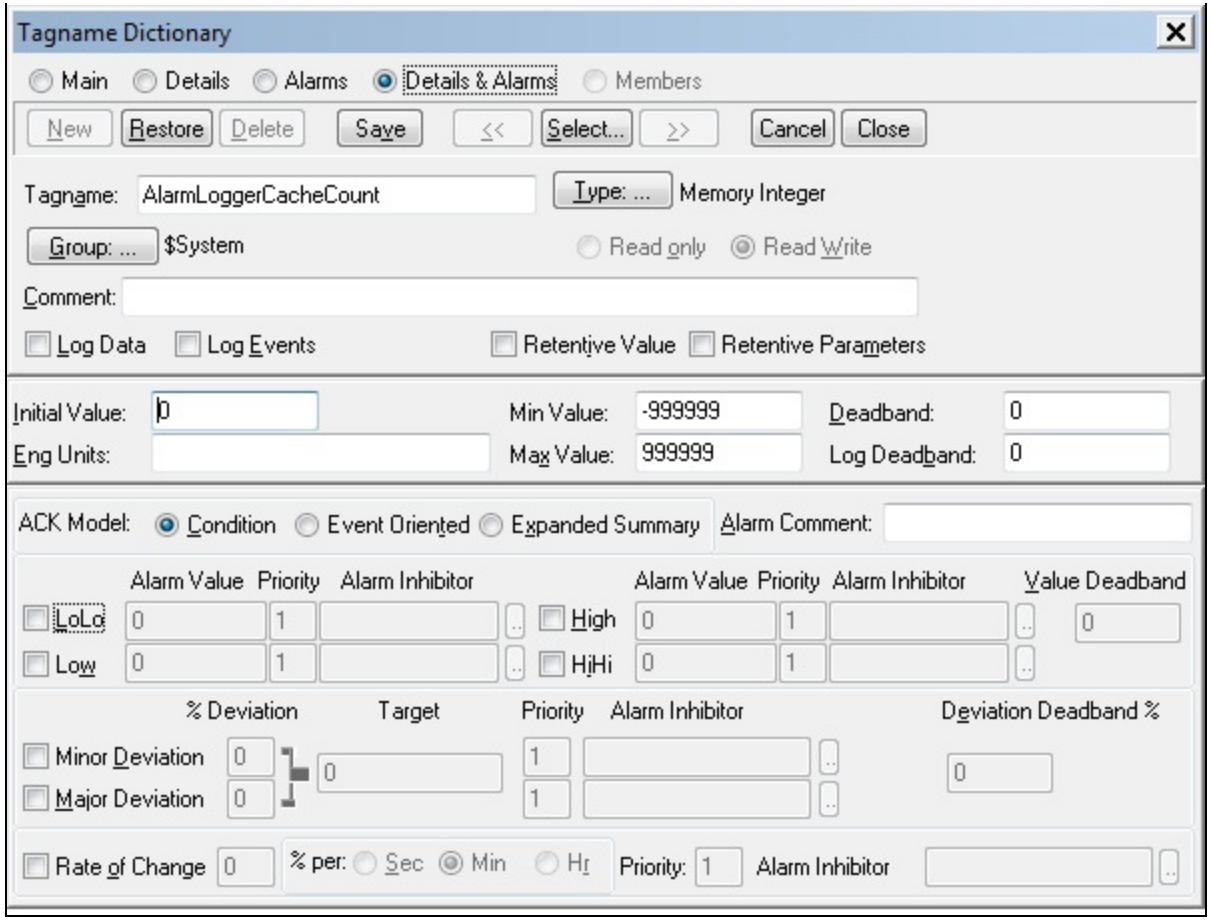

FIGURE 3: ALARMLOGGERCACHECOUNT TAG CONFIGURATION

3. Close the Tagname Dictionary editor.
4. Click **Special / Tagname Dictionary** and click **Select**.

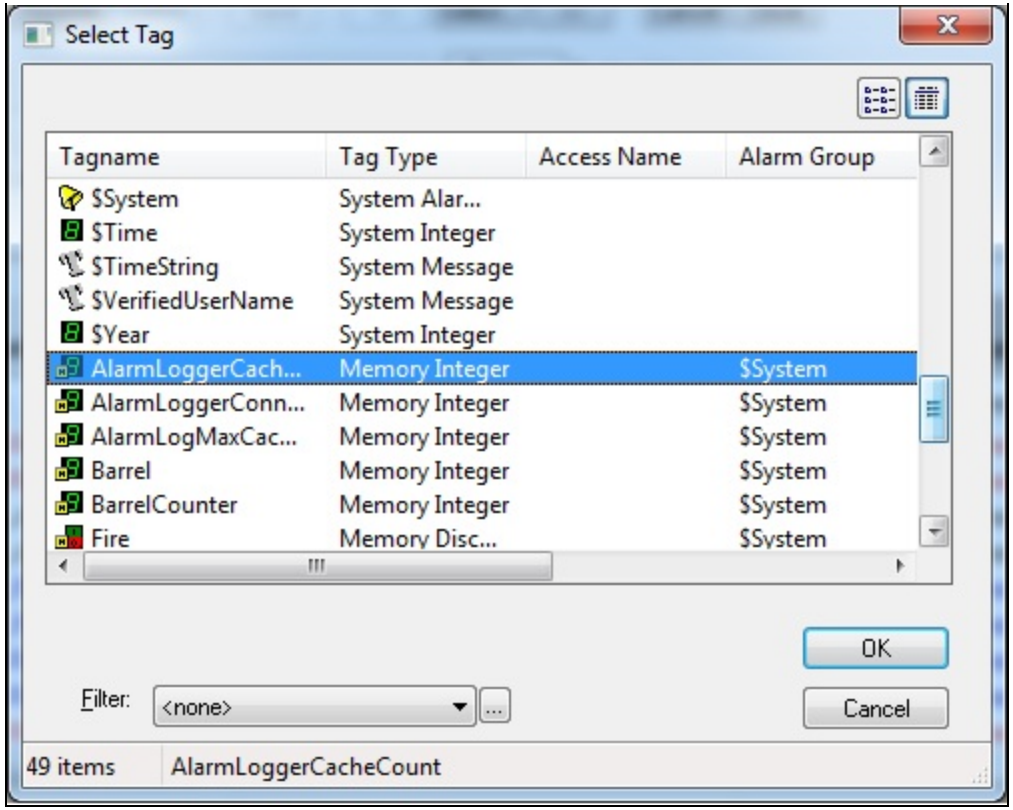

FIGURE 4: SELECT ALARMLOGGERCACHECOUNT TAG

5. Add text objects to the InTouch alarm window to display the 3 tags (Figure 5 below).

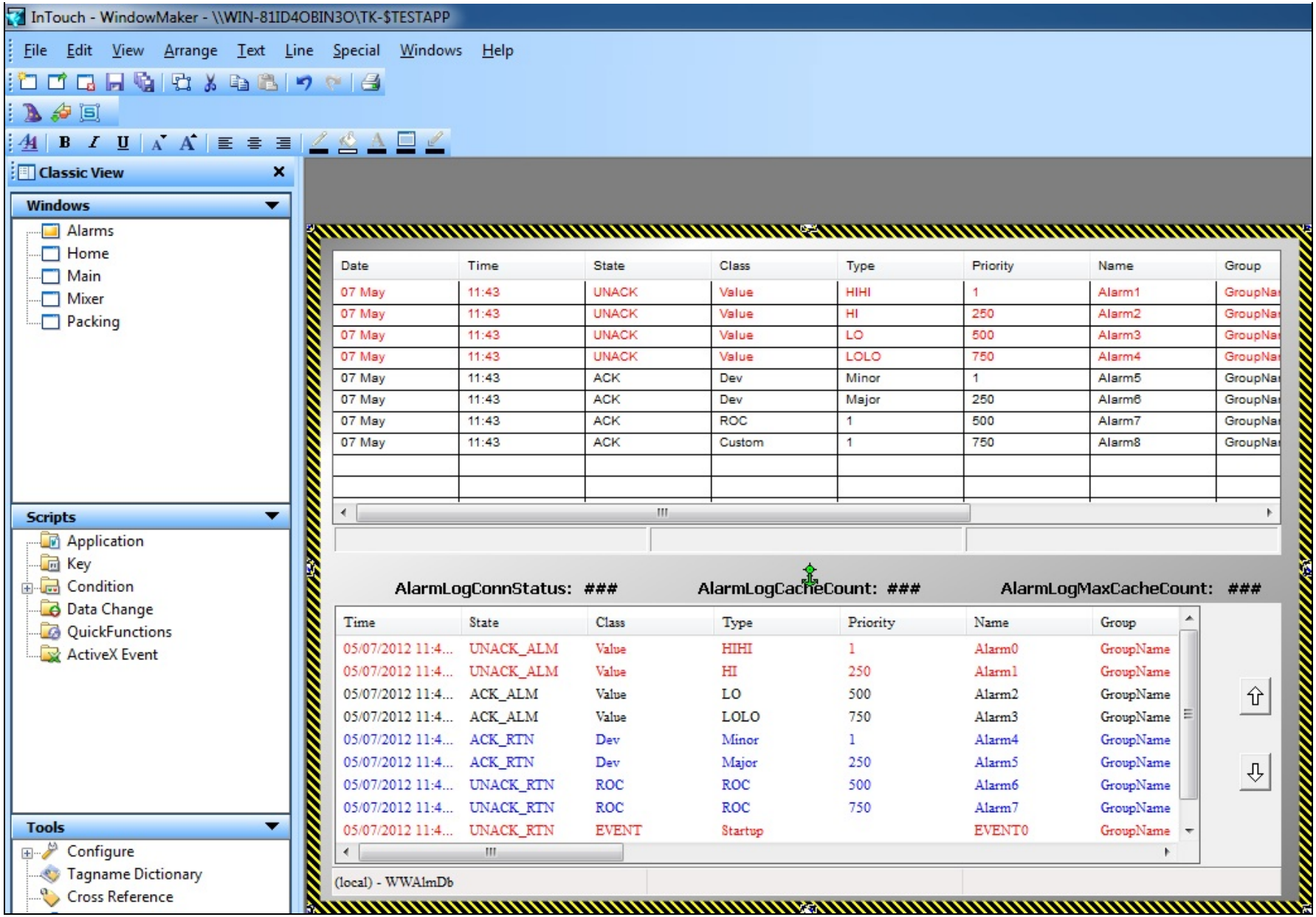

FIGURE 5: ALARM DBWINDOW

6. Configure the animation links to **Value Display / Analog**.

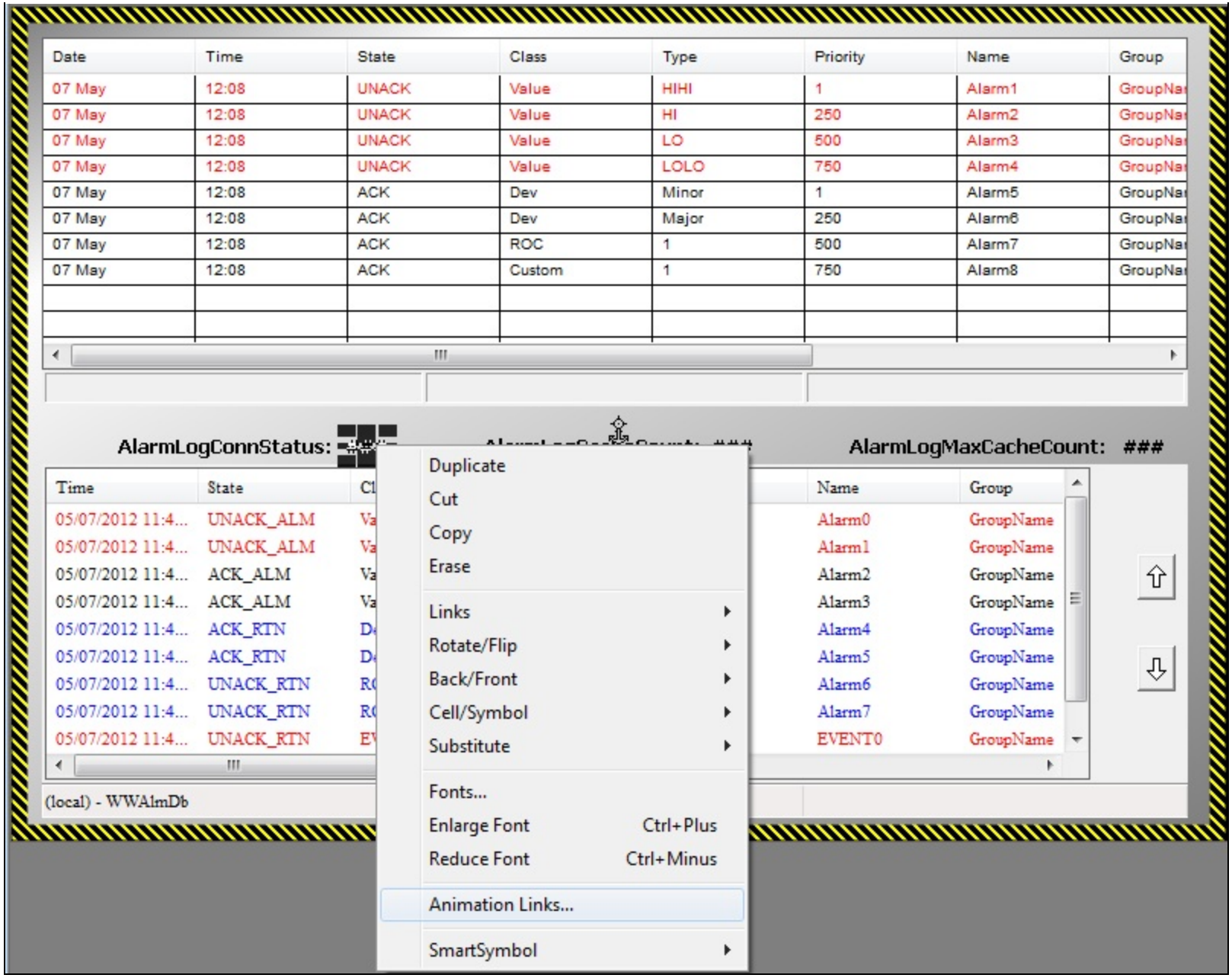

FIGURE 6: CONFIGURE ANIMATION LINKS

7. Link the tag as the Expression with the formatting type of **Integer** (Figure 7 below).

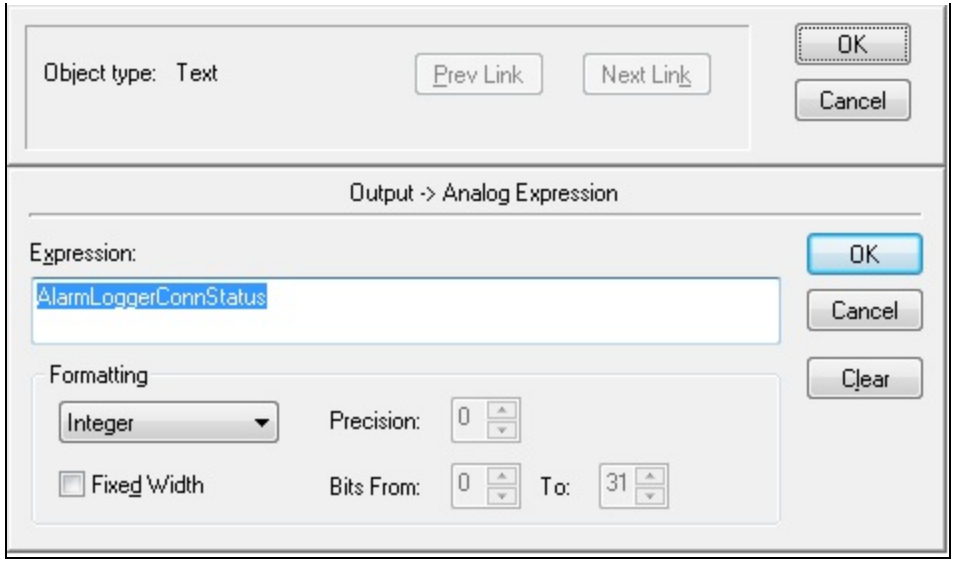

FIGURE 7: ANIMATION EXPRESSION: ALARMLOGGERCONNSTATUS AS INTEGER

7. Switch to Runtime and start the **AlarmDBLogger**.

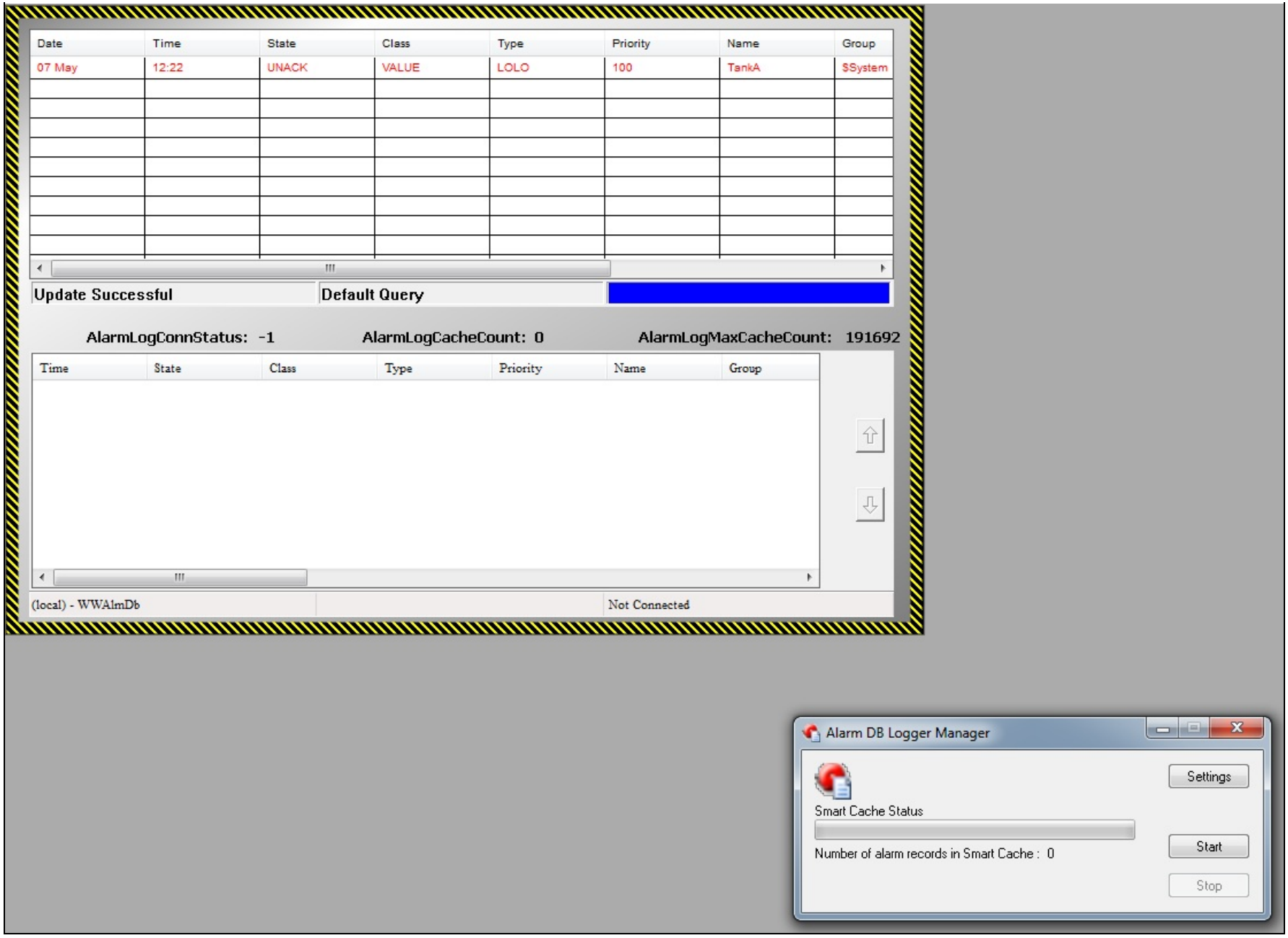

FIGURE 8: START ALARM DB LOGGER

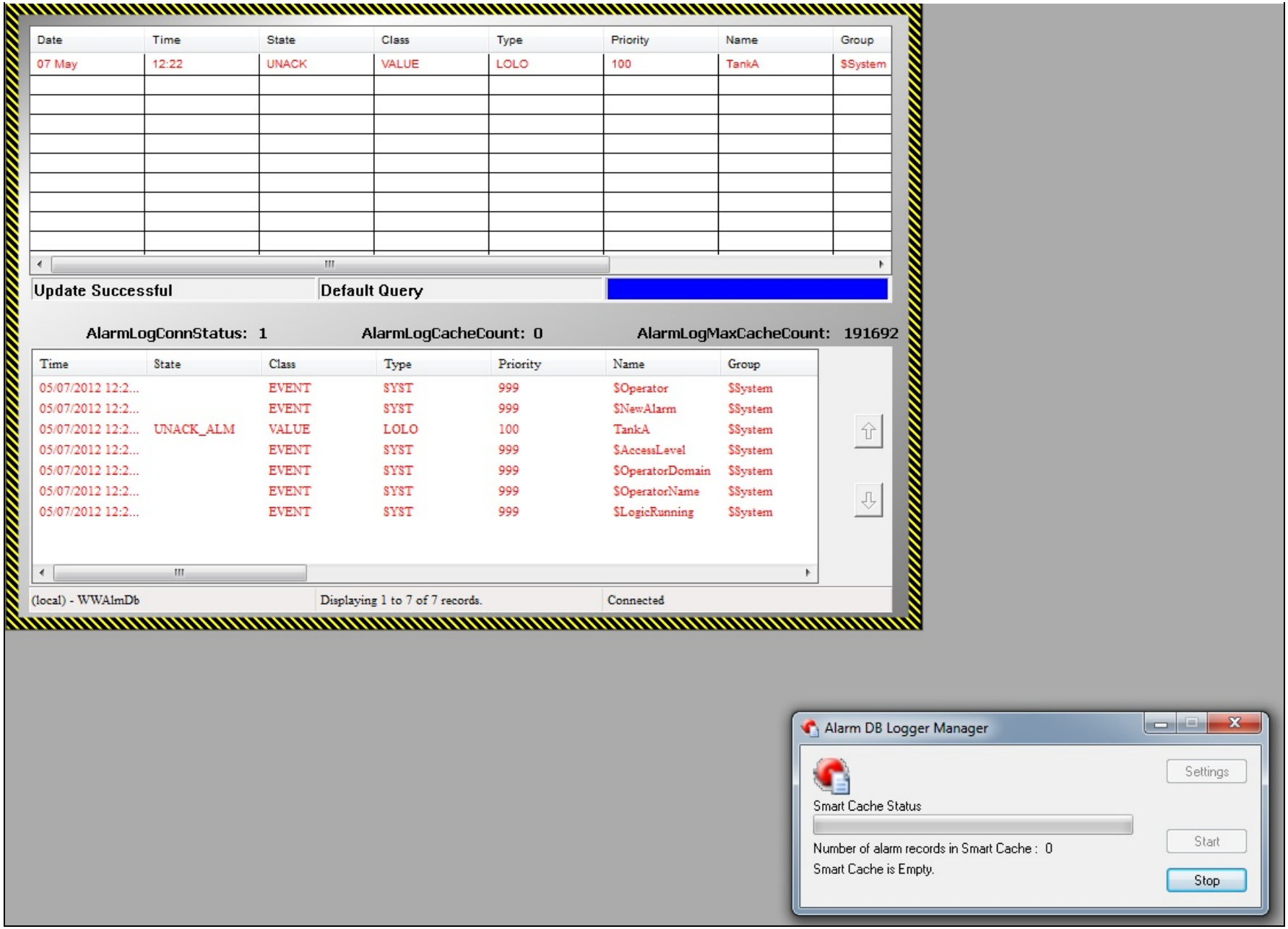

FIGURE 9: ALARM DB LOGGER USING THE NEW FUNCTIONS

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