

Description: This Application Note will describe how to use the Unified Data Manager to create event triggers and schedule transactions.

OS Requirement: Win XP/Server 2003/ Server 2008/Vista/Windows 7

General Requirement: BridgeWorX version 9.x must be installed.

Introduction to the Unified Data Manager

Scheduling in BizViz version 9.x has undergone some changes. Rather than creating separate triggers in BridgeWorX and ReportWorX, users now create event triggers in the Unified Data Manager (UDM). Triggers in the UDM are available to just about every BizViz or GENESIS32 application that has scheduled events. This application note will walk you through how to create some simple triggers with the UDM and how to associate those triggers with BridgeWorX transactions.

Date/Time Triggers

Note that Date/Time Triggers are the replacement for Periodic Triggers in BridgeWorX version 8.x. In this example, we will create a trigger that will execute every 10 minutes.

1. Open the UDM by going to Start ☐ Programs ☐ ICONICS Tools ☐ Unified Data Manager.
2. Expand Event Triggers ☐ Date/Time Triggers.
3. Right-click on Date/Time Triggers and select New ☐ Time Trigger Item.
4. Type "EveryTenMinutes" into the Name field.
5. Select Daily.
6. After Recur every, select "10" and "minutes."
7. For Start Date and Start Time, select a time in the past so the trigger will always be active.
8. Click Apply. Our date/time trigger is now complete.

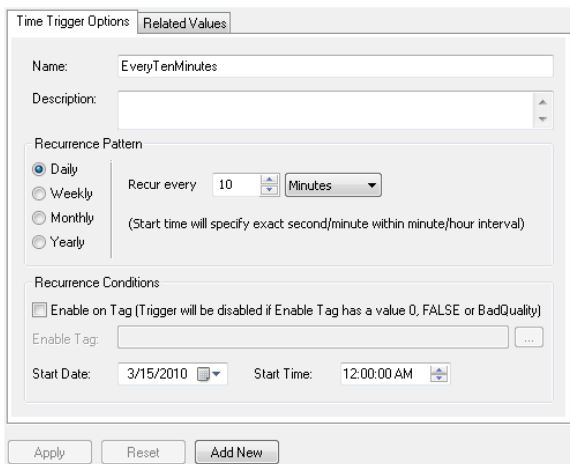


Figure 1 - Data/Time Trigger Options

Database Triggers

In this example, we will create a database trigger that will fire when we need to order more products. We will use the sample Northwind database and will configure our trigger for when at least five different products have less than 10 units left in stock.

1. Open the UDM by going to Start ☐ Programs ☐ ICONICS Tools ☐ Unified Data Manager.
2. Expand Event Triggers ☐ Database Triggers.
3. Right-click on Database Triggers and select New ☐ Database Trigger Item.
4. Type "LowOnProducts" into the Name field.
5. Select the Database Trigger Options tab.
6. Click on the Create Database Connection button.
7. On the Provider tab, select Microsoft Jet 4.0 OLE DB Provider then click Next.
8. Hit the ... button and browse for C:\Program Files\ICONICS\BizViz\BridgeWorX\Sample Database Files\Northwind.mdb.
9. Test the connection, and if it succeeds hit OK.
10. In the SQL Query to Execute field, type the following:

```
SELECT * FROM Products WHERE UnitsInStock < 10
```

11. For Fire trigger when result of SQL Query, select "has at least" and "5" records.
12. Click Apply. Our database trigger is now complete.

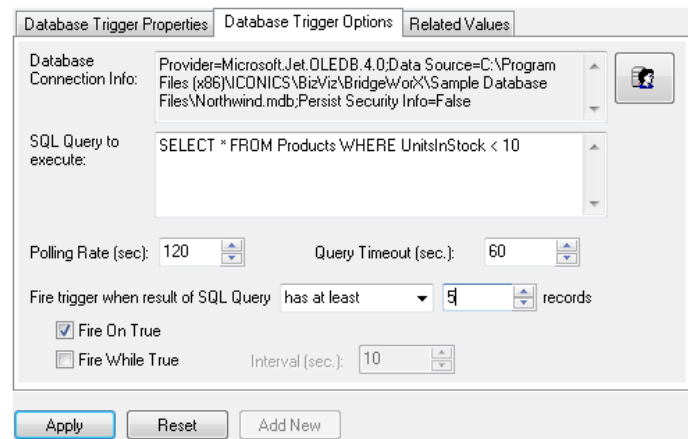


Figure 2 - Database Trigger Options

File System Triggers

In this example, we will create a trigger that will fire when a new file is created in a certain folder or an existing file in that folder is modified. This type of trigger could be used, for example, to perform an action whenever an employee edits or adds a new document to the Feedback folder.

1. Open the UDM by going to Start → Programs → ICONICS Tools → Unified Data Manager.
2. Expand Event Triggers → File Triggers.
3. Right-click on File Triggers and select New → File Trigger Item.
4. Type “NewFeedback” into the Name field.
5. Select the File Trigger Options tab.
6. Click the ... button, browse to C:\, and click the Make New Folder button. Name the new folder “Feedback” and select it.
7. Check On File Create and On File Last Write Time Change.
8. Click Apply. Our file trigger is now complete.

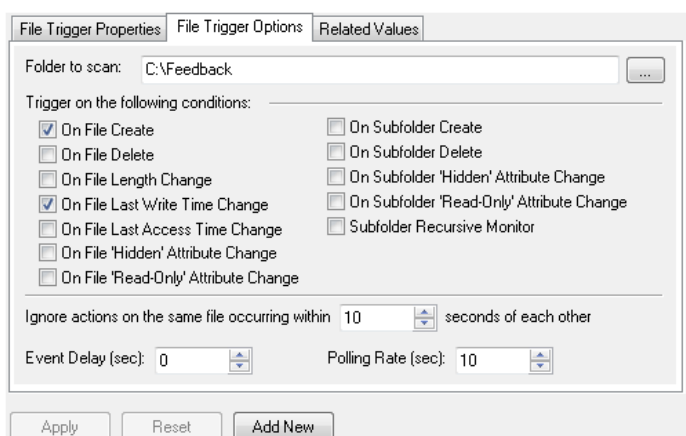


Figure 3 - File Trigger Options

NT Event Triggers

In this example, we will create a trigger that fires whenever an ICONICS application warning or error event is detected in the Windows Event Log. Duplicate events within a 60-second window will be ignored.

1. Open the UDM by going to Start → Programs → ICONICS Tools → Unified Data Manager.
2. Expand Event Triggers → NTEvent Triggers.
3. Right-click on File Triggers and select New → NTEvent Trigger Item.
4. Type “ICONICSWarningOrError” into the Name field.
5. Select the NTEvent Trigger Options tab.
6. For Category, select “Application”.
7. For Subcategory, select “ICONICS Event.”
8. Select Ignore duplicate events fired within the last and type “60” into the Seconds box.
9. For Fire Conditions, select the Error and Warning Event Detected boxes.
10. Click Apply. Our NT Event trigger is now complete.

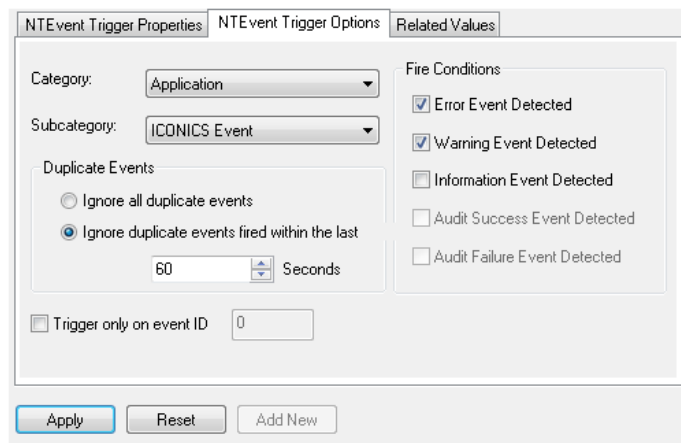


Figure 4 - NT Event Trigger Options

Triggering Transactions

Now that we’ve created some triggers, we can associate one or more of these triggers with any of our BridgeWorX transactions.

1. Open the BridgeWorX Configurator (Start → Programs → ICONICS BizViz → BridgeWorX → BridgeWorX Configurator).
2. Expand Configurations → your configuration → your folder and select the transaction that you want to automatically trigger.
3. Click on the Advanced Mode button if you are not already in Advanced Mode.
4. Select the Scheduling tab.
5. Click the Add button.
6. In the Unified Data Browser, select one or more triggers to add. When you have all of your triggers selected, click OK.
7. Click Apply. Now this transaction will be automatically executed whenever any of its associated triggers are fired.

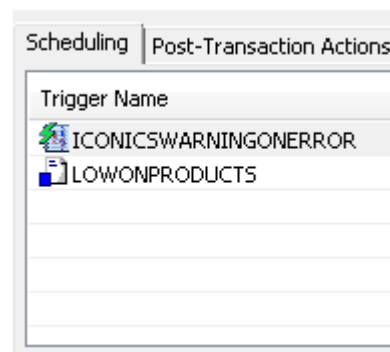


Figure 5 - Two Triggers Added