



Leading the **Integration** Revolution

Your business problems have changed.
Why hasn't your integration solution?



ADEPTIA

Using Adeptia

Use Case: Triggering orchestration with Database Event

Use Case highlights

In this use case we will go through following steps:

1. Use the Events to create a Database Trigger in a database (MS Sql Server)
2. Attach the Database Event to Process flow using Event Registry
3. Insert or update a record in the database to trigger the process flow
4. Monitor the run-time Events dashboard to see the run-time logs

Design methodology

Design

Design a high level process flow

Configure

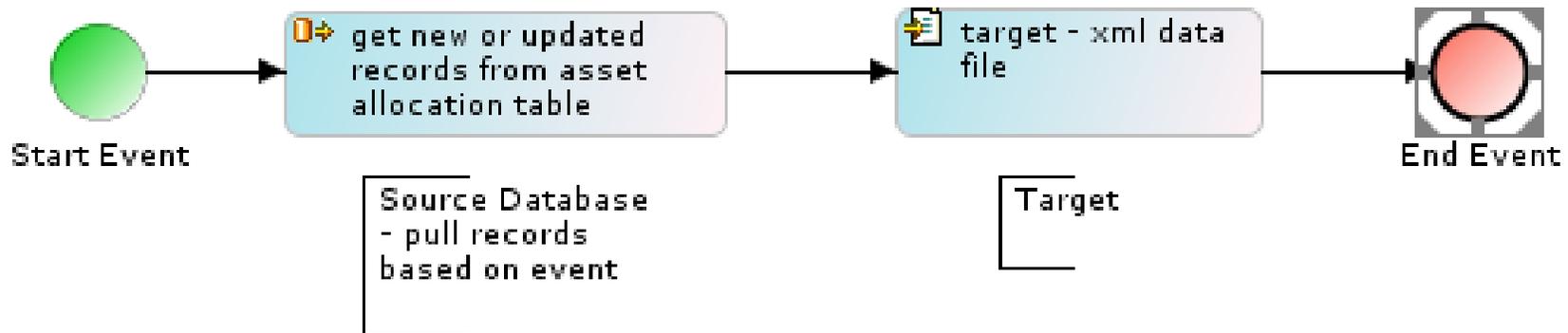
Configure all the activities in the process flow

Deploy

Attach to Database Event

Design: Process Flow

Please refer to the Use Case video describing how to build this process flow



Configure – Database Event

Go to Develop > Events > Database

Events > Database ✓

Delete ✓ Activate Deactivate + Create New Quick Search

| Name | Description | Owner | PF | Project Name | Modified | Action |
|------------------------------|------------------|----------|------|-----------------|-----------|--------|
| ✓ UseCase_Financials_event ✓ | database trigger | demou... | View | UseCase_Data... | 12/29/... | ☰ |

Event: UseCase_Financials_event

Where Condition

SQL Trigger

```
Insert,Update
as
declare @accountid varchar(50)
begin
set @accountid = (select accountid from inserted);
INSERT INTO dbeventtriggertable VALUES ('Query = WHERE
accountid = '"+@accountid + "' ');
END ;
```

SQL Trigger Name* dbevent

Event Start Date

Time (hh:mm) * Hours Mins

Event Expiry Date

Time (hh:mm) * Hours Mins

Frequency Duration

Polling Frequency* 30 Second (s)

Configure – Database Event Sql Trigger syntax

```
create trigger dbevent on dbo.assetallocation for
Insert,Update
as
declare @accountid varchar (50)
begin
set @accountid = (select accountid from inserted);
INSERT INTO dbeventtriggertable VALUES ('Query = WHERE accountid ='"+@accountid
+'"' );
END ;
```

Event: UseCase_Financials_event

Where Condition

SQL Trigger

```
Insert,Update
as
declare @accountid varchar(50)
begin
set @accountid = (select accountid from inserted);
INSERT INTO dbeventtriggertable VALUES ('Query = WHERE
accountid ='"+@accountid +'"' );
END ;
```

SQL Trigger Name* dbevent

Event Start Date

Time (hh:mm) * Hours Mins

Event Expiry Date

Time (hh:mm) * Hours Mins

Frequency Duration

Polling Frequency* 30 Second (s)

Configure – Database Source Schema

Go to Develop > Services > Schema > Database

Services > Schema > Database ✓

Delete Refresh + Create New Quick Search

| Name | Description | Owner | Project Name | Modified | Action |
|---|-----------------|----------|-------------------|------------|--------|
| <input type="checkbox"/> UseCase_AssetAllocation_schema ✓ | database schema | demouser | UseCase_Databa... | 12/29/1... | ☰ |

Name* UseCase_AssetAllocation_schema X

Description* database schema

Select Database Info* FinancialsDB_sqlserver ✓
Create New

Definition Mode* Import XSD File Table Name

XSD File Browse...

Table Name Browse Tables ✓

SQL Query
SELECT * FROM dbo.[assetallocation]

Configure – Database Source & File Target

Database Source

Services > Source > Database ✓

Delete + Create New Quick Search

| <input type="checkbox"/> | Name | Description | Owner | Project Name | Modified | Action |
|--------------------------|----------------------------------|-----------------|----------|-------------------|------------|--------|
| <input type="checkbox"/> | UseCase_AssetAllocation_Source ✓ | database source | demouser | UseCase_Databa... | 12/29/1... | ☰ |

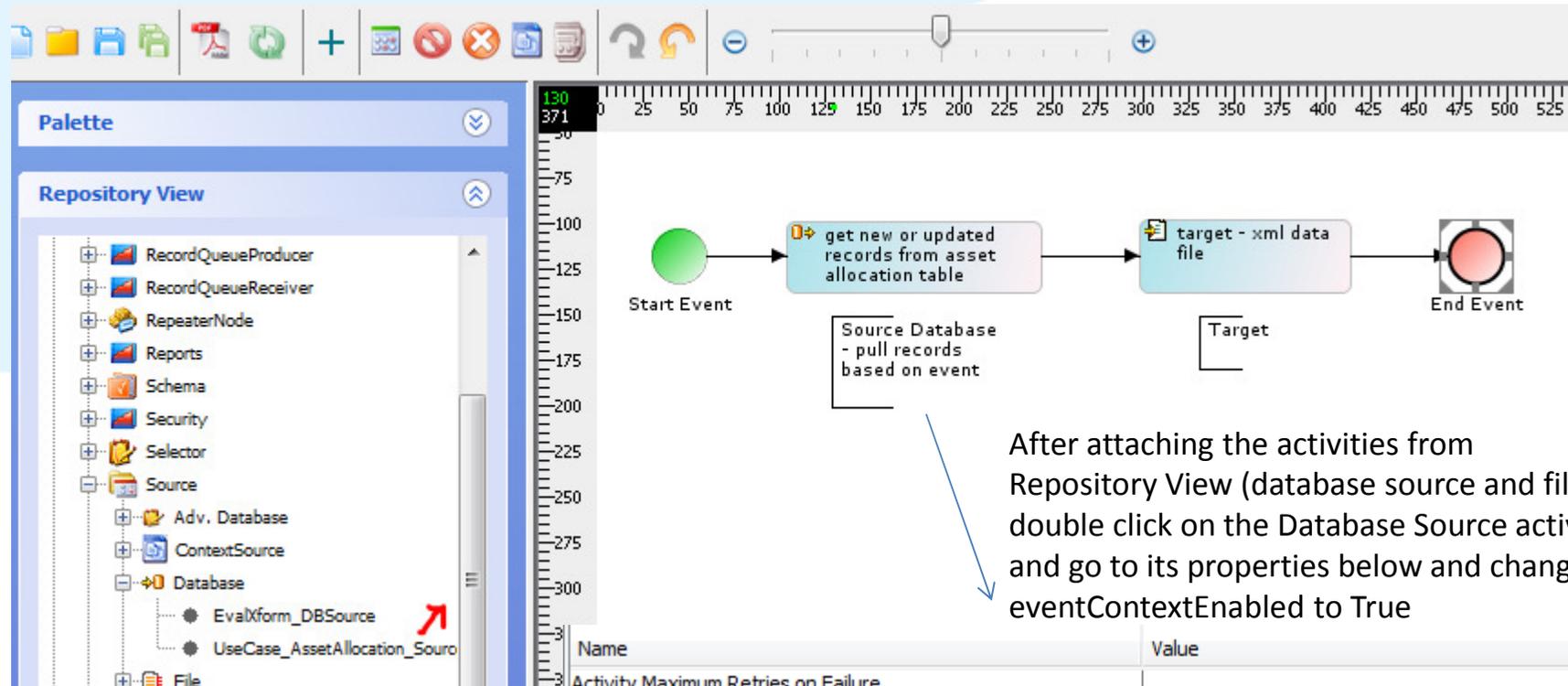
File Target

Services > Target > File ✓

Delete + Create New Quick Search

| <input type="checkbox"/> | Name | Description | Owner | Project Name | Modified | Action |
|--------------------------|----------------------------------|-----------------|----------|-------------------|------------|--------|
| <input type="checkbox"/> | UseCase_AssetAllocation_target ✓ | for new records | demouser | UseCase_Databa... | 12/29/1... | ☰ |

Configure: Process Flow



| Name | Value |
|--|--|
| Activity Maximum Retries on Failure | |
| Activity Wait Time(in seconds) between Retries | |
| Character Set Encoding | None |
| dataAction | No Action |
| Error Records | File |
| eventContextEnabled | ✓ true |
| Format | XML |
| ID | 192168001036138835402468000058 |
| Label | get new or updated records from asset allocation table |
| Name | UseCase_AssetAllocation_Source |
| source | |
| streamNames | UseCase_AssetAllocation_Source |

Deploy: Process Flow (bind to Database Event)

The screenshot shows the Adeptia web application interface. The top navigation bar includes 'Home', 'Develop', 'Monitor', and 'Administer'. Below this, there are tabs for 'Getting Started', 'Projects', 'Solutions', 'Process', 'Services', 'Events', 'Web Forms', and 'Reports and Dashboards'. The main content area is titled 'Process > Process Flow' and contains a table of process flows. The table has columns for Name, Description, Owner, Project Name, Modified, and Action. The row for 'UseCase_DatabaseEvent_process' is highlighted with a red box, and a context menu is open over it, with 'Bind Event' selected.

| Name | Description | Owner | Project Name | Modified | Action |
|-------------------------------|---|-------------|-------------------|------------|--------|
| UseCase_DatabaseEvent_process | get new or updated records from a... | demouser | UseCase_Datab... | 12/29/1... | ⋮ |
| UseCase_Account | triggered by real time MQ event | demouser | UseCase_Mess... | 12/27/1... | ⋮ |
| UseCase_Custom | orchestration to call LinkedIn and... | demouser | UseCase_Custo... | 12/26/1... | ⋮ |
| UseCase_RecordB | use case example | demouser | UseCase_Recor... | 12/25/1... | ⋮ |
| Benefits_Duplicat | process filters out duplicates and a... | demouser | UseCase_ETL... | 12/24/1... | ⋮ |
| HL7_Partner1_Pro | process to translate HL7 data files | demouser | HL7_Medical_R... | 12/15/1... | ⋮ |
| UseCase_SugarCR | connect to Sugar CRM | demouser | SugarCRM_Con... | 12/13/1... | ⋮ |
| NetSuite_Connect | connector process to login to NetS... | demouser | NetSuite_Conn... | 12/08/1... | ⋮ |
| AssetAllocationReportingFlow | flow that creates custom report | demouser | AssetAllocatio... | 12/07/1... | ⋮ |
| WireTransferFlow | flow to dynamically generate report | demouser | UseCase_Custo... | 12/07/1... | ⋮ |
| EDIOutboundProcessor | Process flow to submit EDI file to o... | EDISolut... | Default | 09/26/1... | ⋮ |
| EDInboundProcessor | Process flow to parse inbound EDI... | EDISolut... | Default | 09/26/1... | ⋮ |
| EDInboundTransactionProcessor | Process flow to process inbound E... | EDISolut... | Default | 08/22/1... | ⋮ |

Right click on the Process Flow name and click on Bind Event.

Deploy: Process Flow (bind to Database Event)

Bind Event to Process Flow: UseCase_DatabaseEvent_process

Standard Properties

| | |
|--------------------|---|
| Name* | <input type="text" value="UseCase_Bind_Event"/> |
| Description* | <input type="text" value="attach event to process flow"/> |
| Select Event Info* | <input checked="" type="radio"/> Use Existing <input type="radio"/> Create New |
| Existing | <input type="text" value="UseCase_Financials_event"/>  |
| Event Type | <input type="text" value="-- SELECT --"/>  <input type="button" value="Create Event"/> |
| | <input type="text"/> |
| Process Flow Name* | <input type="text" value="UseCase_DatabaseEvent_process"/>  |

Deploy: Process Flow (bind to Database Event)

Activate Database Event by going to
Develop > Events > Database
Check the box next the event name and click on Activate

Events > Database

Delete Activate Deactivate Create New

Quick Search

| <input checked="" type="checkbox"/> | Name | Description | Owner | PF | Project Name | Modified | Action |
|---|--------------------------|------------------|----------|----------------------|-----------------|-----------|--------|
| <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | UseCase_Financials_event | database trigger | demou... | View | UseCase_Data... | 12/29/... | |

Once the event is activated you can insert a record in the table and see the Events or Process Flow logs to see the process flow getting executed automatically.

Run-time monitor

Monitor > Dashboard > Events

Home Develop **Monitor** Administer

My Tasks ▾ My Documents ▾ **Dashboard ▾** Reports ▾ History ▾ My Solutions ▾

Dashboard > Events

| # ▲ | Event Name | Event Type | Trigger Time | Start Time | Process Instance Name | Process Name | Status |
|-----|--------------------------|---------------|---------------------|---------------------|--|-------------------------------|----------|
| 1 | UseCase_Financials_event | DatabaseEvent | 12/29/2013 15:58:37 | 12/29/2013 15:58:37 | get new or updated records from asset allocation table | UseCase_DatabaseEvent_process | Executed |
| 2 | financials_trigger | DatabaseEvent | 12/29/2013 14:47:42 | 12/29/2013 14:47:42 | process flow | financials_flow | Executed |

[Active Events - Five Next](#) | [ALL](#)

| # ▲ | Event Name | Event Type | Polling | Last Trigger Time | Next Trigger Time | Process Name |
|-----|---------------------------|---------------|-----------|---------------------|---------------------|----------------------------------|
| 1 | UseCase_Financials_event | DatabaseEvent | 30 Second | 12/29/2013 15:58:37 | 12/29/2013 15:59:07 | UseCase_DatabaseEvent_process |
| 2 | Accounts_MQ_trigger | JmsEvent | N/A | 12/27/2013 11:48:04 | N/A | UseCase_Accounts_Process |
| 3 | FulfillmentWebService | WsProvider | N/A | N/A | N/A | FulfillmentWebService_subprocess |
| 4 | AssetAllocationRequest | Form | N/A | N/A | N/A | AssetAllocationReportingFlow |
| 5 | WireTransferReportRequest | Form | N/A | N/A | N/A | WireTransferFlow |

Events Firing Trend

| Time Period | Fired Events |
|-------------|--------------|
| 1 | 1 |
| 2 | 2 |
| 3 | 1 |
| 4 | 2 |

Project: View and manage activities for this use case

Projects ✓

List of activities included in project "UseCase_DatabaseEvent" ✓

◀ Back Move ↻ Quick

| <input type="checkbox"/> | Name | Description | Owner | Modified |
|--------------------------|--------------------------------|--|----------|----------------|
| <input type="checkbox"/> | Database Event (1) | | | |
| <input type="checkbox"/> | UseCase_Financials_event | database trigger | demouser | 12/29/13 15:49 |
| <input type="checkbox"/> | Database Info (1) | | | |
| <input type="checkbox"/> | FinancialsDB_sqlserver | database connection | demouser | 12/29/13 17:01 |
| <input type="checkbox"/> | Database Schema (1) | | | |
| <input type="checkbox"/> | UseCase_AssetAllocation_schema | database schema | demouser | 12/29/13 15:52 |
| <input type="checkbox"/> | Database Source (1) | | | |
| <input type="checkbox"/> | UseCase_AssetAllocation_Source | database source | demouser | 12/29/13 15:53 |
| <input type="checkbox"/> | Event Registry (1) | | | |
| <input type="checkbox"/> | UseCase_DatabaseTrigger_event | attach trigger to the process flow | demouser | 12/29/13 15:57 |
| <input type="checkbox"/> | File Target (1) | | | |
| <input type="checkbox"/> | Process Flow (1) | | | |
| <input type="checkbox"/> | UseCase_DatabaseEvent_process | get new or updated records from asset... | demouser | 12/29/13 16:57 |

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Thank You!



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