

Event Based Extract Generation: using a Process Chain in SAP BW



Applies to:

SAP BW 3.x & SAP BI Net Weaver 2004s. For more information, visit the [EDW homepage](#).

Summary

This document gives step by step procedure to generate a file using an event based process chain.

Author: Mayuri Sinha

Company: Infosys Technologies Limited

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Author Bio

Mayuri Sinha is working as a Technology Analyst with Infosys Technologies Limited.

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Scenario

In this article we extract a data using RSCRM_BAPI using event based process chain. This will help us execute the RSCRM_BAPI in a process chain automatically.

Below described is the step-by-step solution for the same.

Step-By-Step Solution

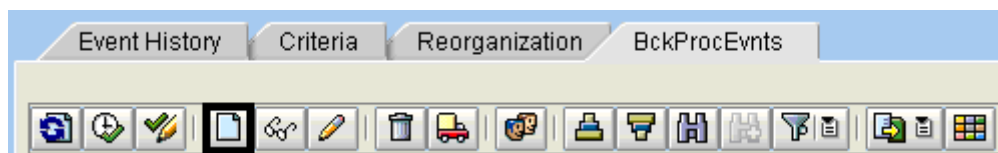
Step 1:

First of all we will create an event. For this we need to go to TCode SM64.

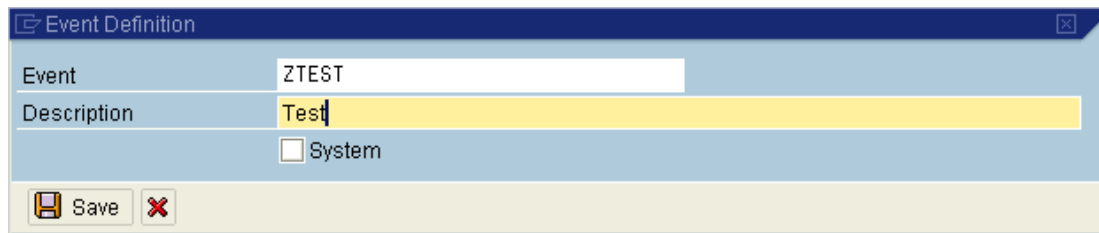


Step 2:

Create an event by clicking on the create icon as shown below



We get the pop up as below. Here we specify the name of the event. (Technical Name and Description)



Once we click on save here event is created.

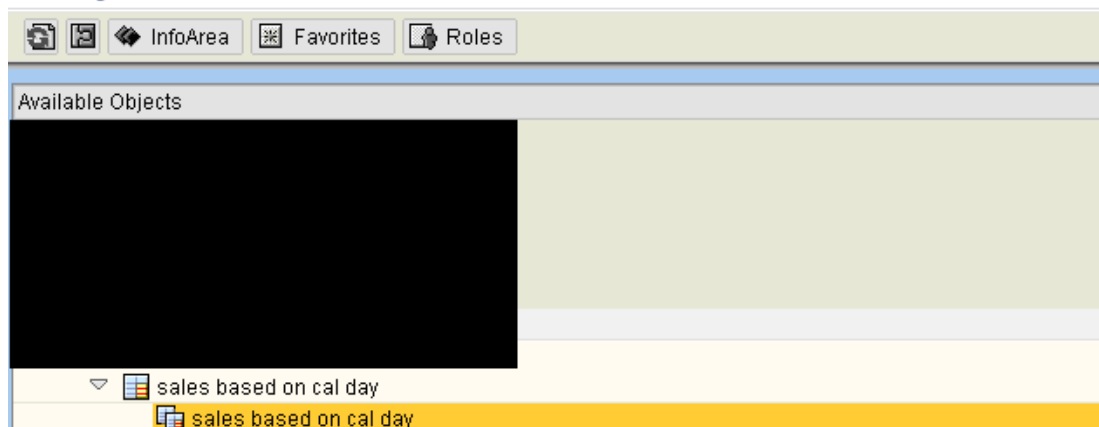
Step 3:

Go to TCode RSCRM_BAPI



And choose the query for which we want to extract the data.

Query



On selecting the query we get the definition as shown below.

Query Definition

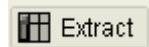
Execute Query Delete Query View Variables Batch Monitor Conditions Filter Extract OLAP Check

Query sales based on cal day

Query	
Query View	L[REDACTED]1/REP_20091209135040_CALDAYSALLES
COLUMNS	COLUMNS
Key Figures	4G2YLG99Q24TIDMBEOHTV186A
ROWS	ROWS
Calendar Day	0CALDAY
SLICER	SLICER

Step 4:

Click on the extract icon on the top.



The below screen will pop up. Here we specify the below details:

- Technical Name of the Extract
- File Name
- File Path Name
- Separator

Create Query Extract

Extract Detail

Technical Name of Extract: Ztest

User: [REDACTED]

Language: EN

Packaging

enable Packaging

Packaging on Characteristic: [REDACTED]

Package Size: 0

Extract Type

Table

File (fixed length)

File (CSV)

File Parameters

File Name: Ztest

Path Name: [REDACTED]

File Separator: ,

Start Conditions

Selection Options

[Refresh] [Close]

Step 5:

In order to schedule the job, click on the below icon, 'Selection Options'.

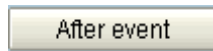


The below screen of job scheduling appears.

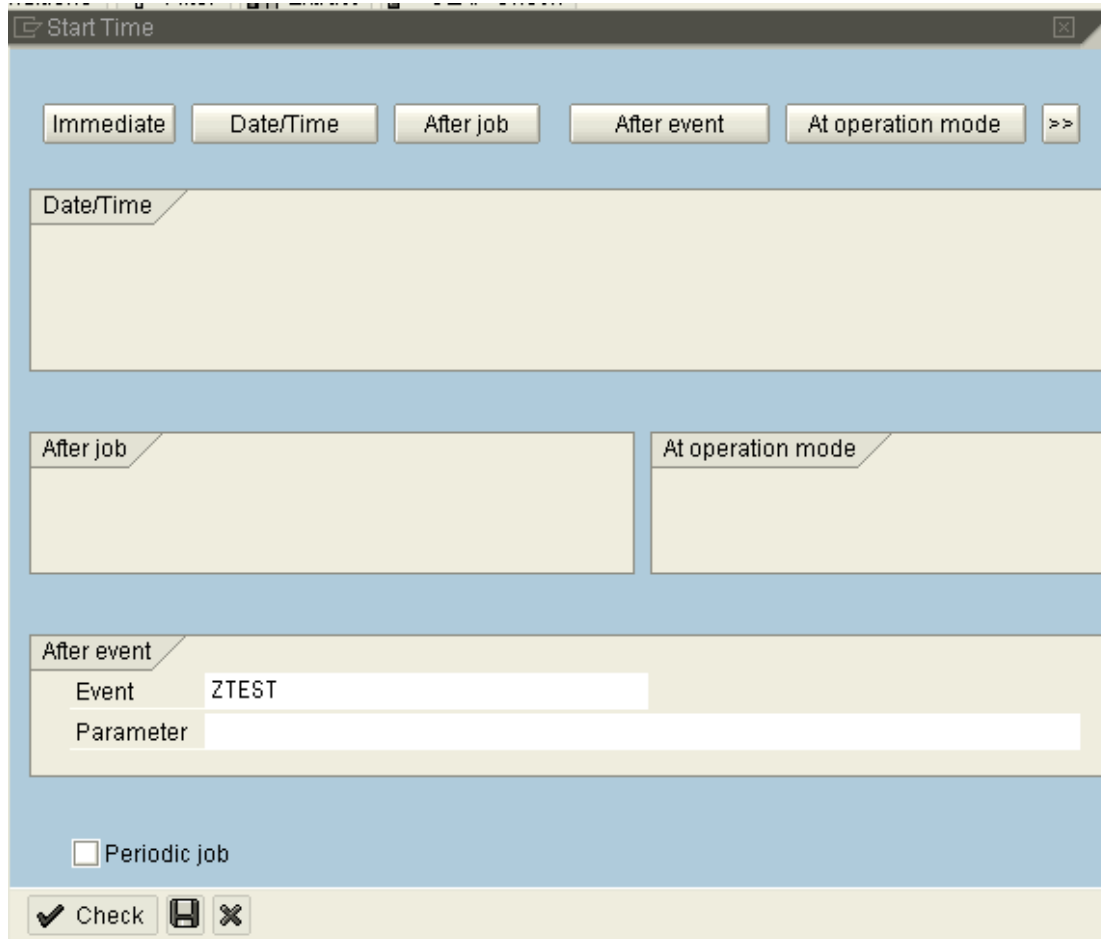
A screenshot of a "Start Time" dialog box. The title bar says "Start Time" with a close button. Below the title bar are five buttons: "Immediate", "Date/Time", "After job", "After event", and "At operation mode", followed by a ">>" button. The "Date/Time" button is selected, and its corresponding panel is active, showing a large empty text area. Below this are two more panels: "After job" and "At operation mode", both empty. Below those are two more panels: "After event" and "At operation mode", both empty. At the bottom of the dialog are three buttons: "Check" (with a checkmark icon), a button with a calendar icon, and a button with an "X" icon.

Step 6:

Click on the button After Event.



Here specify the event which we created in Step 1.

A screenshot of the "Start Time" configuration dialog in SAP. The dialog has a title bar with a close button. Below the title bar is a row of five buttons: "Immediate", "Date/Time", "After job", "After event", and "At operation mode", followed by a right-pointing arrow button ">>". The "After event" button is selected. Below this row are three main sections: "Date/Time" (empty), "After job" (empty), and "After event" (containing "Event" with the value "ZTEST" and an empty "Parameter" field). At the bottom left is a checkbox labeled "Periodic job" which is unchecked. At the bottom right are three buttons: "Check" (with a checkmark icon), "Save" (with a floppy disk icon), and "Cancel" (with an 'X' icon).

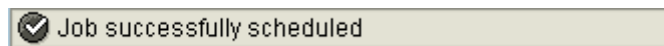
Then click on Save.

Step 7:

We return back to the query execution screen. Here we click on execute.



On executing the job is successfully scheduled. We get the message as shown below.



Step 8:

Now in order to check the scheduled job, go to TCode SM37

Simple Job Selection

Execute Extended job selection Information

Job name *
User name *

Job status
 Sched. Released Ready Active Finished Canceled

Job start condition
 From To

or after event: **ZTEST**

Job step
 ABAP program name:

On trying to view the jobs dependant on the event ZTEST we get the screen below. This is the same job which got generated on execution of the extract.

The job is in released status.

Job Overview

Release Spool Job log Step Application servers

Job overview from: 00.00.0000 at: : :
 to: 00.00.0000 at: : :
 Selected job names: *
 Selected user names: *

Scheduled Released Ready Active Finished Canceled
 Event controlled Event ID: **ZTEST**
 ABAP program Program name :

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
<input type="checkbox"/> 4C72F48DA7AC0180E10080000AE00C11			Released			0	0
*Summary						0	0

Step 9:

Our next step is to create a program to raise the event.

For this we create the executable program in TCode SE38.

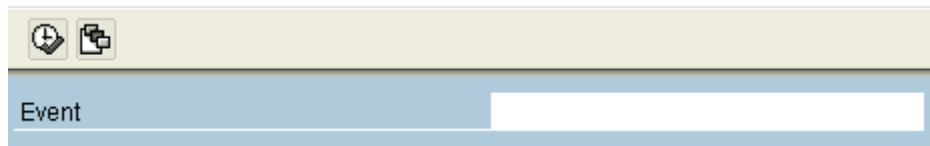
```
REPORT Z_TEST.
```

```
*parameters
```

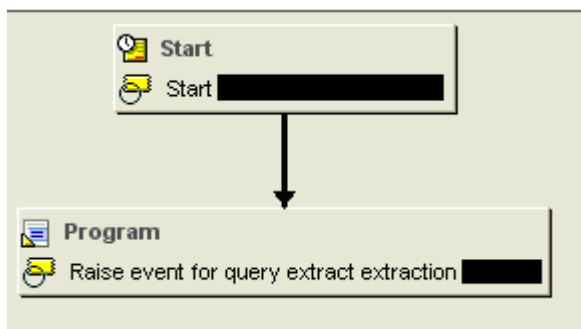
```

parameters: p_event like RSPCTRIGGER-VARIANTE.
start-of-selection.
CALL FUNCTION 'BP_EVENT_RAISE'
  EXPORTING
    EVENTID           = p_event
    EVENTPARM         = ' '
    TARGET_INSTANCE   = ' '
  EXCEPTIONS
    BAD_EVENTID       = 1
    EVENTID_DOES_NOT_EXIST = 2
    EVENTID_MISSING   = 3
    RAISE_FAILED      = 4
    OTHERS             = 5
IF SY-SUBRC <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*           WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
```

Note: This program is created using the SAP standard function module BP_EVENT_RAISE as process chain can be called in a process chain with variant. We define the variant in this process chain as the event name which is then passed to the function module. We get the selection screen as below on using this program.

**Step 10:**

We create a simple process chain with ABAP Process Type.



Here we specify the program name as Z_TEST and the variant is created for the event ZTEST.

The screenshot shows a configuration interface for an event-based extract. At the top, there are fields for 'Variant' and 'Last Changed By', and a 'Changed On' field with 'At' and 'Time' labels. Below this, there are two sections: 'Call Mode' and 'Called From'. The 'Call Mode' section has radio buttons for 'Synchronous' (selected) and 'Asynchronous'. The 'Called From' section has radio buttons for 'Local' (selected) and 'Destination', with an empty text field next to 'Destination'. Below these is the 'Program to Call' section, which has two radio buttons: 'Program' (selected) and 'Scheduled Program'. Under 'Program', there are two text fields: 'Program Name' (with 'Z_TEST' entered) and 'Program Variant' (with a variant name entered), each with a small edit icon. Under 'Scheduled Program', there are two text fields: 'Event' and 'Parameters', both empty.

Step 11:

On executing this process chain, event is generated and a file is created automatically.

Related Content

http://www.sdn.sap.com/irj/scn/go/portal/prtroot/docs/oss_notes/sdn_oss_bw_ei/~form/handler%7b5f4150503d3030323030363832353030303030303031393732265f4556454e543d444953504c4159265f4e4e554d3d363035323133%7d

<http://www.sdn.sap.com/irj/sdn/index?rid=/webcontent/uuid/60ca31f1-3ff7-2a10-a49d-eea80739601d>

www.help.sap.com

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