Triggering the Process Chains at Particular Date using Events

Applies to:

SAP BW 3.5, Will also work on SAP BI 7

For more information, visit the Business Intelligence homepage

Summary

This document discusses how to Trigger the Process Chain at particular Dates (every month), using Events.

Author: Surendra Kumar Reddy Koduru

Company: ITC Infotech India Ltd. (Bangalore/INDIA)

Created on: 14 March 2009

Author Bio

Surendra Kumar Reddy Koduru is a SAP BI consultant currently working with ITC Infotech India Ltd (Bangalore/INDIA). He has over 4+ years of experience in various BW/BI implementation/Support projects.

Table of Contents

Introduction:

This article describes how to run the Process Chain at particular Dates using Events. The requirement is every month we need to load the data (or Trigger the Process chain) on 8th and 11th day.

- This logic is useful in different scenarios also; here I'm taking Process Chain Scenarios.

- Using this logic, you can also automate some Programs/Function Modules etc...

Requirement:

We have some Y-Tables/Info Structures in ECC and every month 8th and 11th day the data will be updated in that Y-Tables/Info Structures. This is regular process and this process is automated in ECC. After that, we need to load the data from ECC to BW and need to automate this process using Events.

How to Achieve:

Using simple ABAP Program, we can do it.

This program will works based on System Date, it will check SY-DATUM with 8th and 11th day of every month and then it System date is matching with our 8th and 11th day then this program will trigger Event, so based on this event, our Process Chain will Trigger.

Note: You need to set this event in Process Chain.

Event Creation:

Go to SM62 and select **Maintain** and then Press Enter.
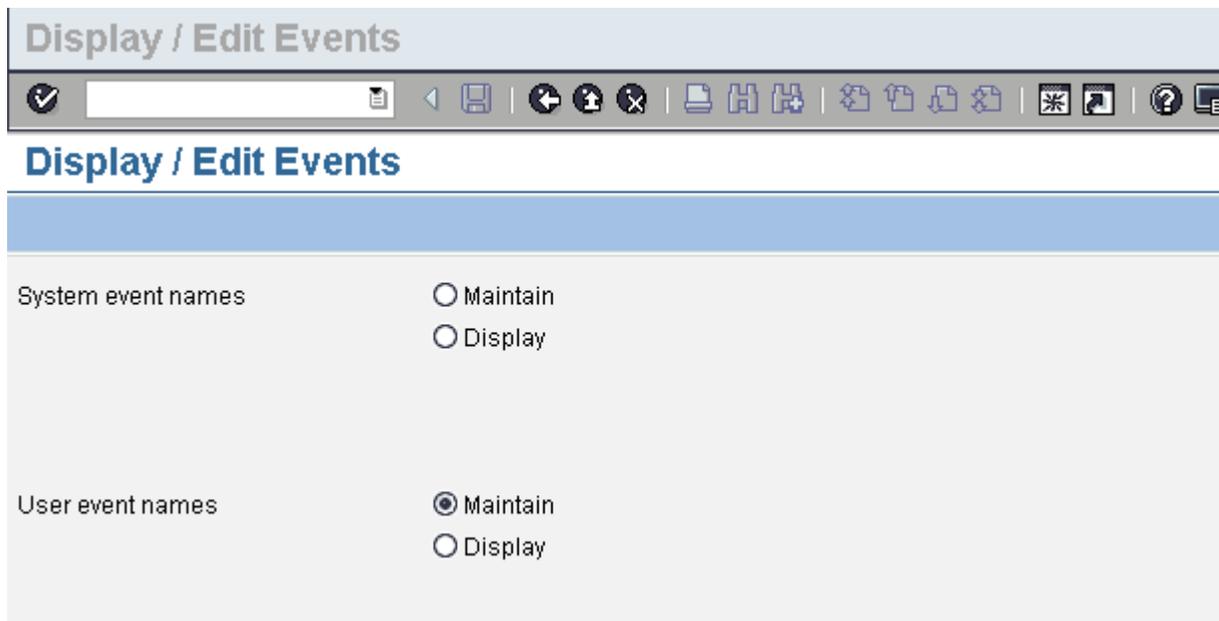
Click on Create Icon and Create New Event.

Edit User Events

Edit User Events

Event identifier	Description
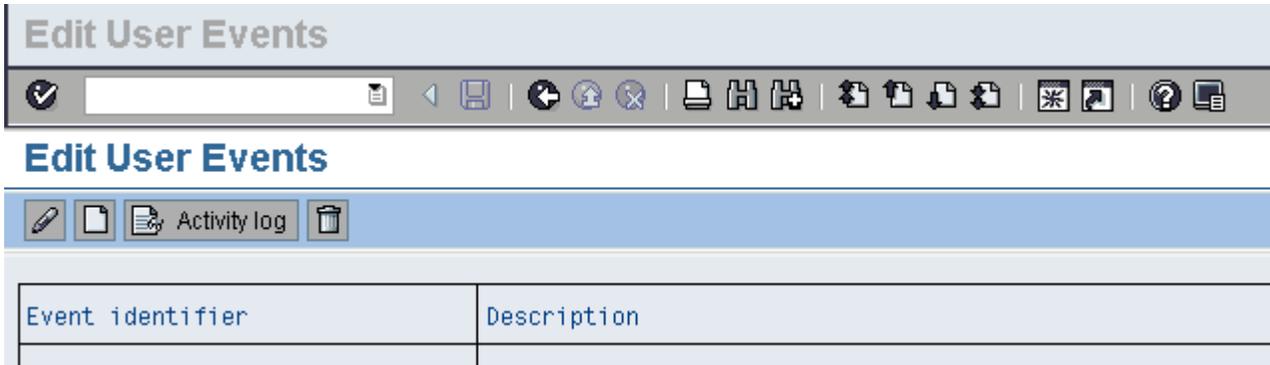
And give Event Name and Description like below and **Save** the Event.

Create New Entry

Event	ZEVENT1
Description	Event for Process Chain Trigger
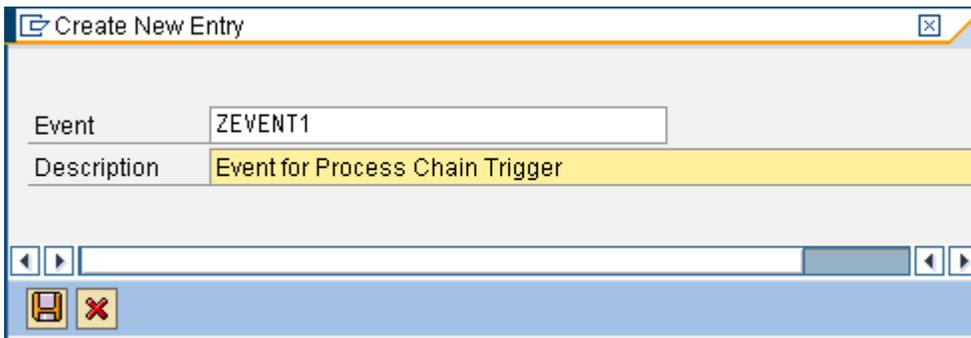
We will use this Event in Process Chain.

Code:

Go to SE38 and Create a Program with name **ZEVENT_PC**, Copy and Past the following Code.

ABAP Editor: Initial Screen

ABAP Editor: Initial Screen

Program	ZEVENT_PC

Create

Subobjects

◉ Source code
○ Variants
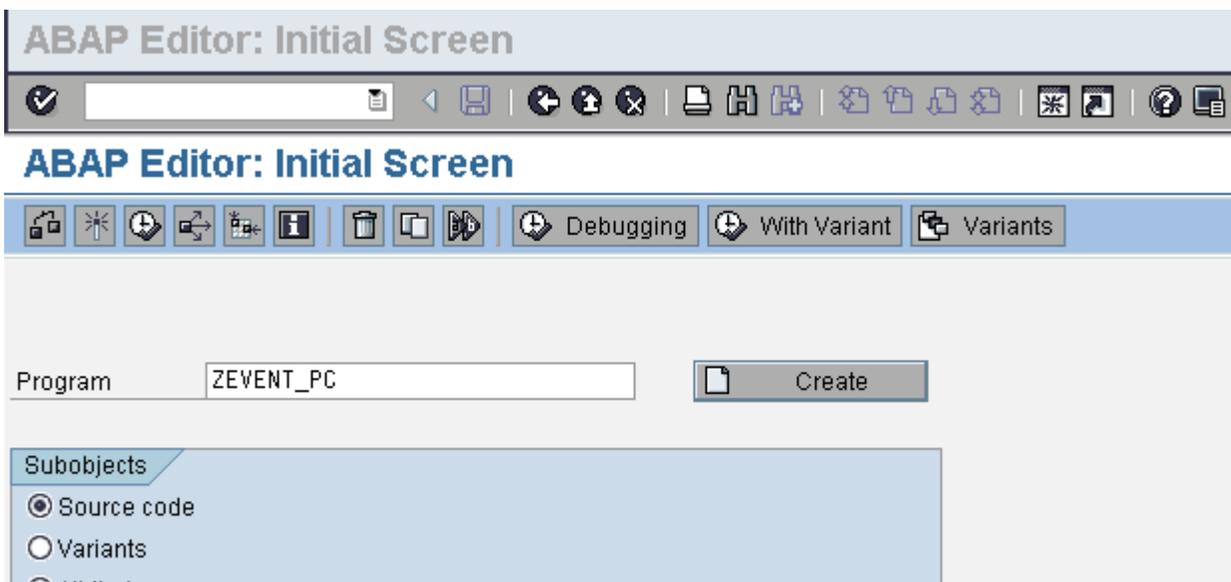
REPORT ZEVENT_PC.

```
DATA: EVENTID LIKE TBTCJOB-EVENTID.
DATA: EVENTPARM LIKE TBTCJOB-EVENTPARM.

DATA: DT1 TYPE SY-DATUM,
      DT2 TYPE SY-DATUM,
      DT3 TYPE SY-DATUM,

      MY1  TYPE /BI0/OICALMONTH,
      MY2  TYPE /BI0/OICALMONTH,

      DD1(2)  TYPE N,
      DD2(2)  TYPE N,
      DD3(3)  TYPE N.

      EVENTID = 'ZEVENT1'.         "We defined this event in SM62.
      EVENTPARM = 'ZEVENTPARAM'.   "This We will set directly in Process Chain.

      DT1 = SY-DATUM.

      DD1 = '08'.
      DD2 = '11'.

      MY1 = DT1+0(6).

      CONCATENATE MY1 DD1 INTO DT2.
      CONCATENATE MY1 DD2 INTO DT3.

      IF SY-DATUM = DT2 OR SY-DATUM = DT3.

      CALL FUNCTION 'RSSM_EVENT_RAISE'
         EXPORTING
           I_EVENTID                  = EVENTID
           I_EVENTPARM                = EVENTPARM
         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.

      ELSE.

        EXIT.

      ENDIF.
```

Process Chain:

Go to RSPC and Select your Process Chain.

Double click on **Start** then and the Click on **Change Selections** and give the Event name, Parameter name and select Periodic Job and **Save**.

Save ,Activate and Execute the Process Chain.

Then Run the Program **ZEVENT_PC,** if the dates are matching with System date then the Event will trigger and then the Process chain will Trigger else Program won't trigger any Event and it will come out.

Note:

1. You can change the dates as per your requirement.
2. You set this Program (ZEVENT_PC) execution in background on daily.

Related Content

[Creating Process Chains](#)

[Triggering Events from ABAP Programs](#)

[Using Selective Deletion in Process Chains](#)

For more information, visit the [Business Intelligence homepage](#).

Disclaimer and Liability Notice

This document may discuss sample coding or other information that does not include SAP official interfaces and therefore is not supported by SAP. Changes made based on this information are not supported and can be overwritten during an upgrade.

SAP will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

SAP offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by SAP. You agree that you will not hold, or seek to hold, SAP responsible or liable with respect to the content of this document.