

Triggering the Process Chains at Last Day of Every Month using Events



Applies to:

SAP NetWeaver Business Warehouse (Formerly BI), Will also work on SAP BI 3.5. For more information, visit the [EDW homepage](#)

Summary

This article describes how to execute the Process Chain on Last Day of every month using Events without manual intervention.

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Author Bio



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Introduction / Requirement:

This article describes how to execute/trigger the Process Chain on Last Day of Every Month using Events. Here I took Exchange Rates and Global settings. i.e. these two things need to change on Last Day of every Month. Based on your requirement, you can change the process chain events, i.e. you can use this logic for Data Loads or for some other purpose also.

How to Achieve:

Using function modules 'SLS_MISC_GET_LAST_DAY_OF_MONTH' and 'RSSM_EVENT_RAISE' within the ABAP Program zevent_tst, we can do it. This ABAP Program is Custom defined one.

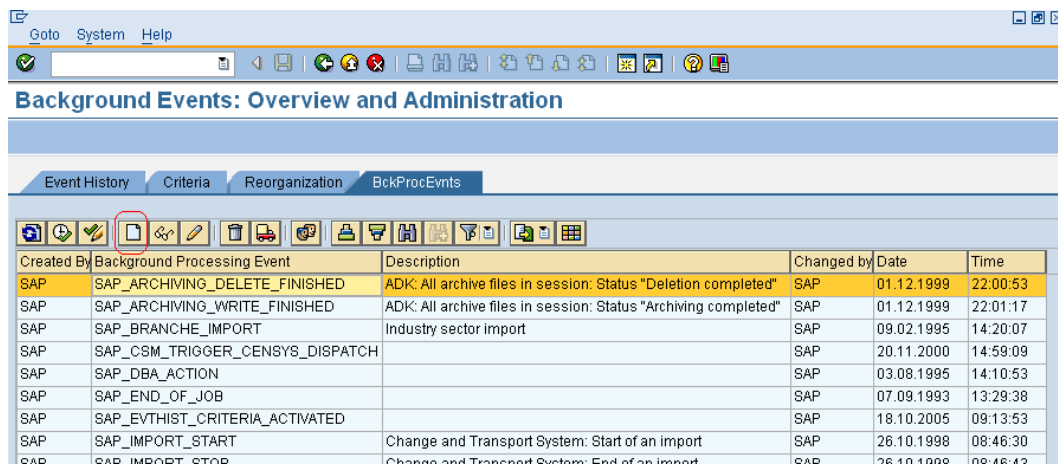
This program will work based on System Date, it will take the SY-DATUM and pass to 'SLS_MISC_GET_LAST_DAY_OF_MONTH' FM and calculates the Last Day of that Month.

If System Date and 'SLS_MISC_GET_LAST_DAY_OF_MONTH' dates are equal then the program will trigger the Event, that event will execute the Process Chain automatically.

Note: First create an Event in SM64 and use it in ABAP Program, and also you need to create a Process Chain.

Creating an Event:

Go to SM64 and click on **Create**.



The screenshot shows the SAP SM64 interface for 'Background Events: Overview and Administration'. The 'Event History' tab is active, and the 'Create' button (represented by a document icon) is circled in red. Below the toolbar is a table of background processing events.

Created by	Background Processing Event	Description	Changed by	Date	Time
SAP	SAP_ARCHIVING_DELETE_FINISHED	ADK: All archive files in session: Status "Deletion completed"	SAP	01.12.1999	22:00:53
SAP	SAP_ARCHIVING_WRITE_FINISHED	ADK: All archive files in session: Status "Archiving completed"	SAP	01.12.1999	22:01:17
SAP	SAP_BRANCHE_IMPORT	Industry sector import	SAP	09.02.1995	14:20:07
SAP	SAP_CSM_TRIGGER_CENSYDISPATCH		SAP	20.11.2000	14:59:09
SAP	SAP_DBA_ACTION		SAP	03.08.1995	14:10:53
SAP	SAP_END_OF_JOB		SAP	07.09.1993	13:29:38
SAP	SAP_EVTHIST_CRITERIA_ACTIVATED		SAP	18.10.2005	09:13:53
SAP	SAP_IMPORT_START	Change and Transport System: Start of an import	SAP	26.10.1998	08:46:30
SAP	SAP_IMPORT_STOP	Change and Transport System: End of an import	SAP	26.10.1998	09:46:42

Give Event Name as ZEV_1 and Save.

Goto System Help

Background Events: Overview and Administration

Event History Criteria Reorganization BckProcEvnts

Created By Background Processing Event Description Change

SAP	SAP_ARCHIVING_DELETE_FINISHED	ADK: All archive files in session: Status "Deletion completed"	SAP
SAP	SAP_ARCHIVING_WRITE_FINISHED	ADK: All archive files in session: Status "Archiving completed"	SAP
SAP	SAP_BRANCHE_IMPORT	Industry sector import	SAP
SAP	SAP_CSM_TRIGGER_CENSYDISPATCH		SAP
SAP	SAP_DBA_ACTION		SAP

Event Definition

Event: ZEV_1

Description: Event for Test

System

Save Save (F8) X

SAP	SAP_SAVE_SAVE(F8)ATCH		SAP
SAP	SAP_POSDW_TASK_PROCESS		JEBEN
SAP	SAP_QEVENT	Event at the start of a background job via QAPI	SAP
SAP	SAP_RSCSMNUDATA		SAP
SAP	SAP_SYSTEM_START		SAP

See our Event.

Goto System Help

Background Events: Overview and Administration

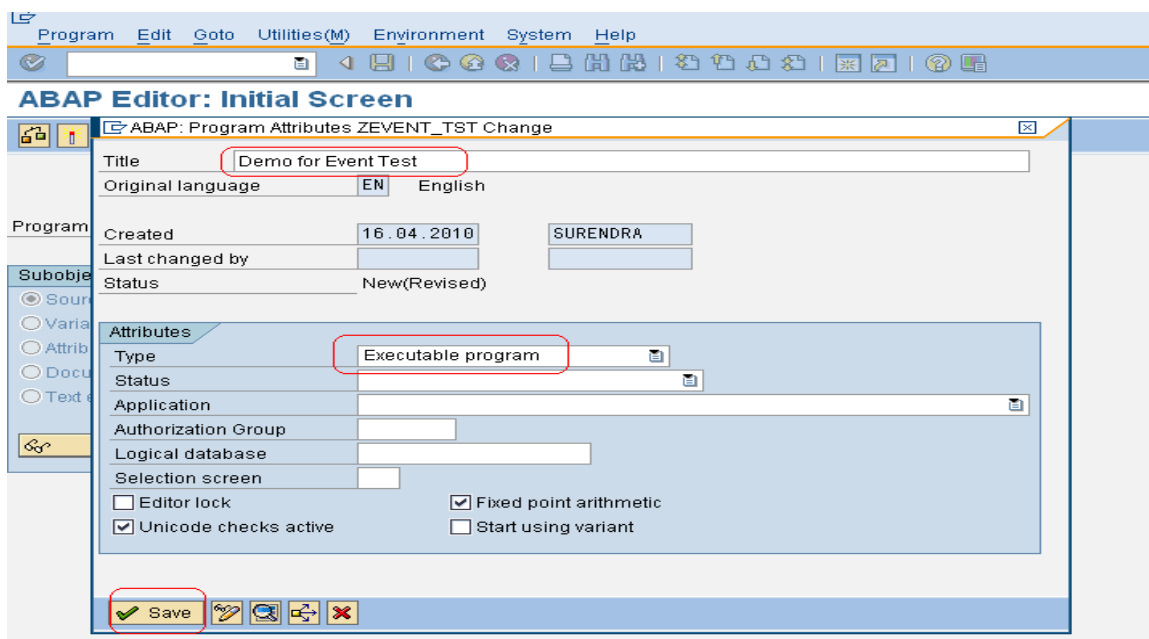
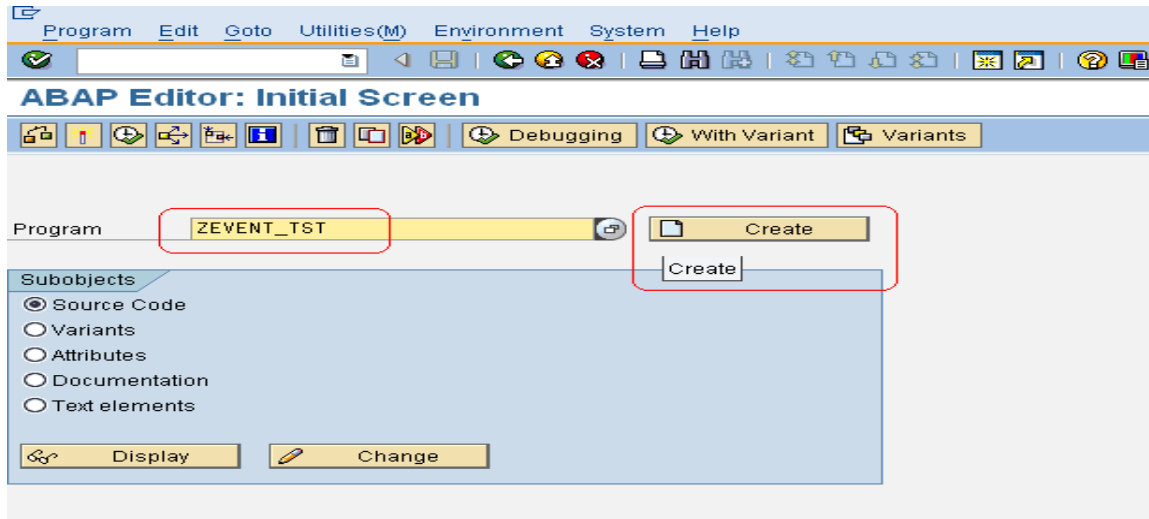
Event History Criteria Reorganization BckProcEvnts

Created ... Background Processing Event Description Changed by Date Time

Customer	ZEV_1	Event for Test	SURENDRA	16.04.2010	10:26:3
SAP	SAP_TRIGGER_RDDIMPDP_CLIENT		SAP	16.05.1995	21:09:2
SAP	SAP_TRIGGER_RDDIMPDP	Event to start transport program RDDIMPDP	SAP	20.07.1994	21:46:5
SAP	SAP_TRANSLATION_WORKLIST_START	Start signal for background jobs in the translation environment	SAP	02.11.1998	12:51:1
SAP	SAP_TEST		SAP	07.07.1993	10:59:3
SAP	SAP_SYSTEM_STOP		SAP	07.09.1993	13:30:1

Creating the Program:

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



Give Title and Type like above and Save.

Call the Function Modules 'SLS_MISC_GET_LAST_DAY_OF_MONTH' and 'RSSM_EVENT_RAISE' and write the code like below.

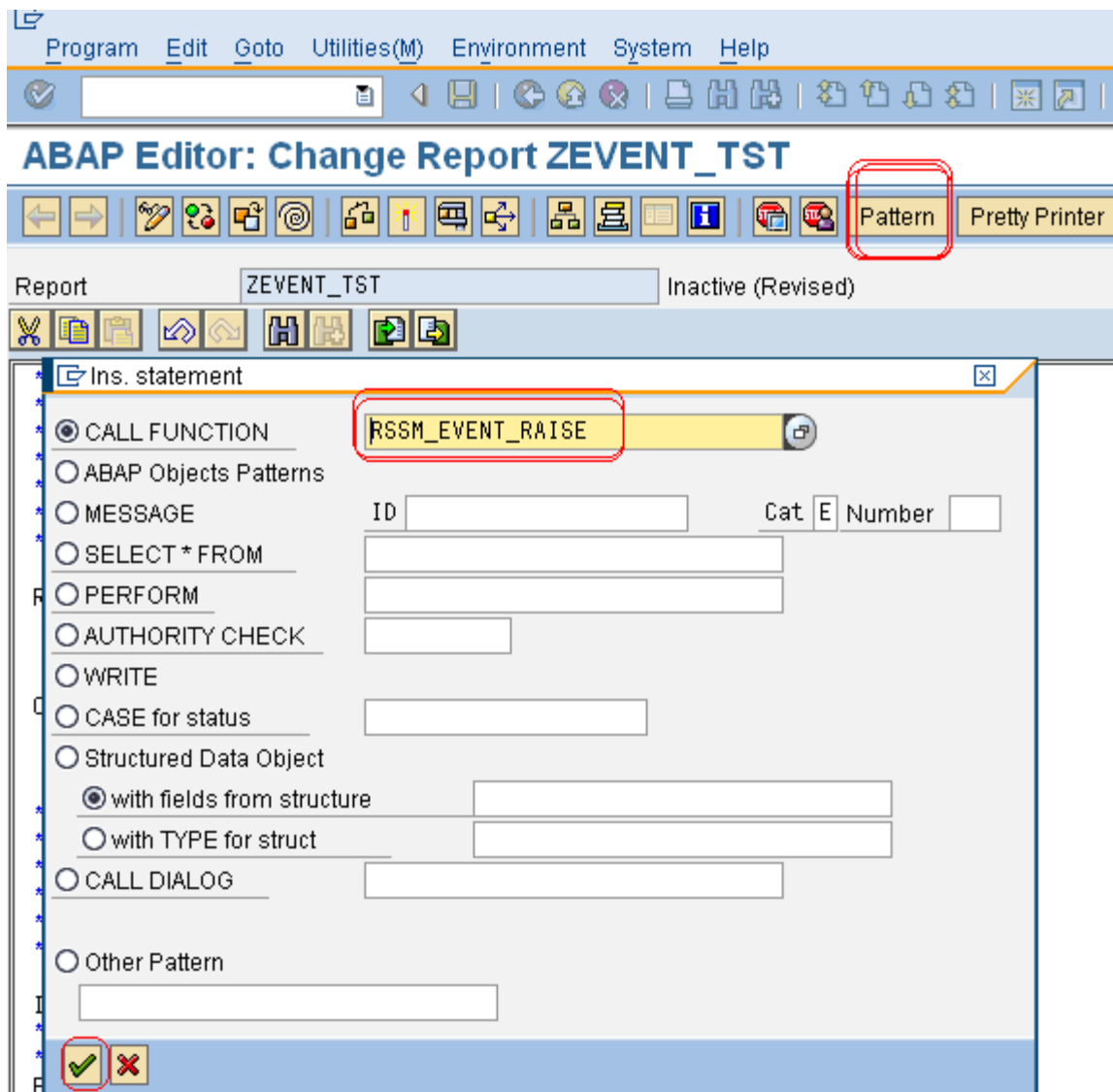
The screenshot displays the ABAP Editor interface for the report 'ZEVENT_TST'. The title bar reads 'ABAP Editor: Change Report ZEVENT_TST'. The menu bar includes 'Program', 'Edit', 'Goto', 'Utilities(M)', 'Environment', 'System', and 'Help'. The toolbar contains various icons, with the 'Pattern' button highlighted by a red circle. Below the toolbar, the report name 'ZEVENT_TST' is shown as 'Active'. The main editor area contains the following code:

```

*&-----*
*& Report  ZEVENT_TST
*&
*&-----*
*&
*&
*&-----*

```

An 'Ins. statement' dialog box is open, showing a list of options. The 'CALL FUNCTION' option is selected, and the text 'SLS_MISC_GET_LAST_DAY_OF_MONTH' is entered in the adjacent text field. Other options include 'ABAP Objects Patterns', 'MESSAGE', 'SELECT * FROM', 'PERFORM', 'AUTHORITY CHECK', 'WRITE', 'CASE for status', 'Structured Data Object', 'CALL DIALOG', and 'Other Pattern'. The 'with fields from structure' sub-option is also selected under 'Structured Data Object'. At the bottom of the dialog, there are checkmark and cross icons.

**Code:**

```

REPORT  zevent_tst.

DATA: zfd TYPE sy-datum,
      zld TYPE sy-datum.

zfd = sy-datum.

CALL FUNCTION 'SLS_MISC_GET_LAST_DAY_OF_MONTH'
  EXPORTING
    day_in          = zfd
  IMPORTING
    last_day_of_month = zld
  EXCEPTIONS
    day_in_not_valid = 1

```

```

OTHERS          = 2.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
  WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.

IF sy-datum = zld.

  CALL FUNCTION 'RSSM_EVENT_RAISE'
  EXPORTING
    i_eventid          = 'ZEV_1'          " This is the Event we created in
                                     " SM64.
    i_eventparm        = 'ZPARAM_PC'     " This is the Parameter we will give
                                     " In Process Chain.

  EXCEPTIONS
    bad_eventid        = 1
    eventid_does_not_exist = 2
    eventid_missing    = 3
    raise_failed       = 4
    OTHERS              = 5.

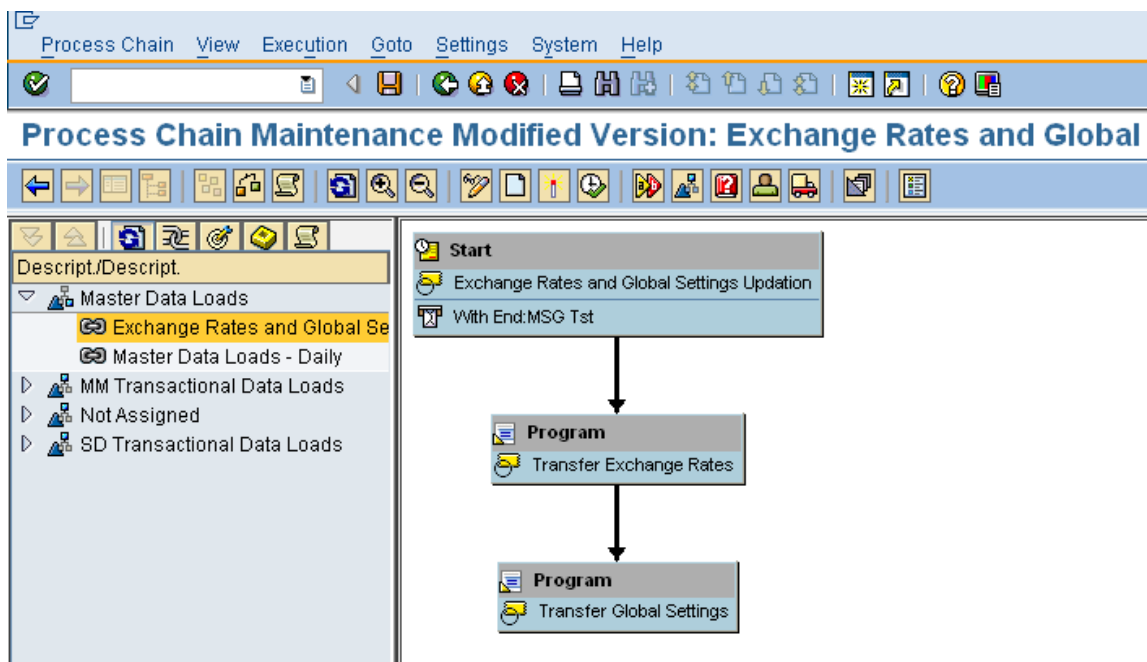
  IF sy-subrc <> 0.
    MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
  ENDIF.

ELSE.
  EXIT.
ENDIF.

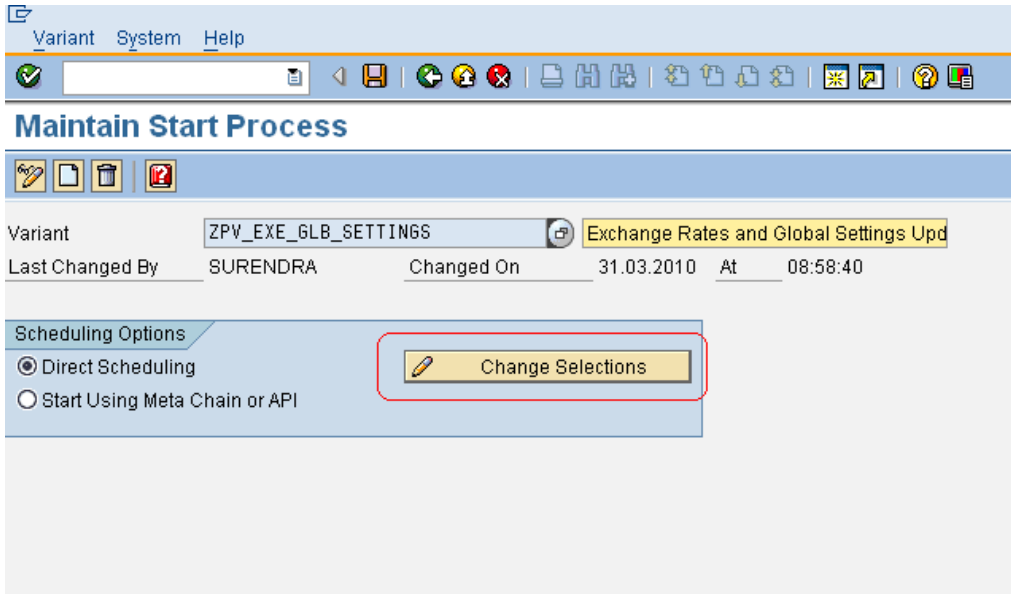
```

Process Chain Configuration:

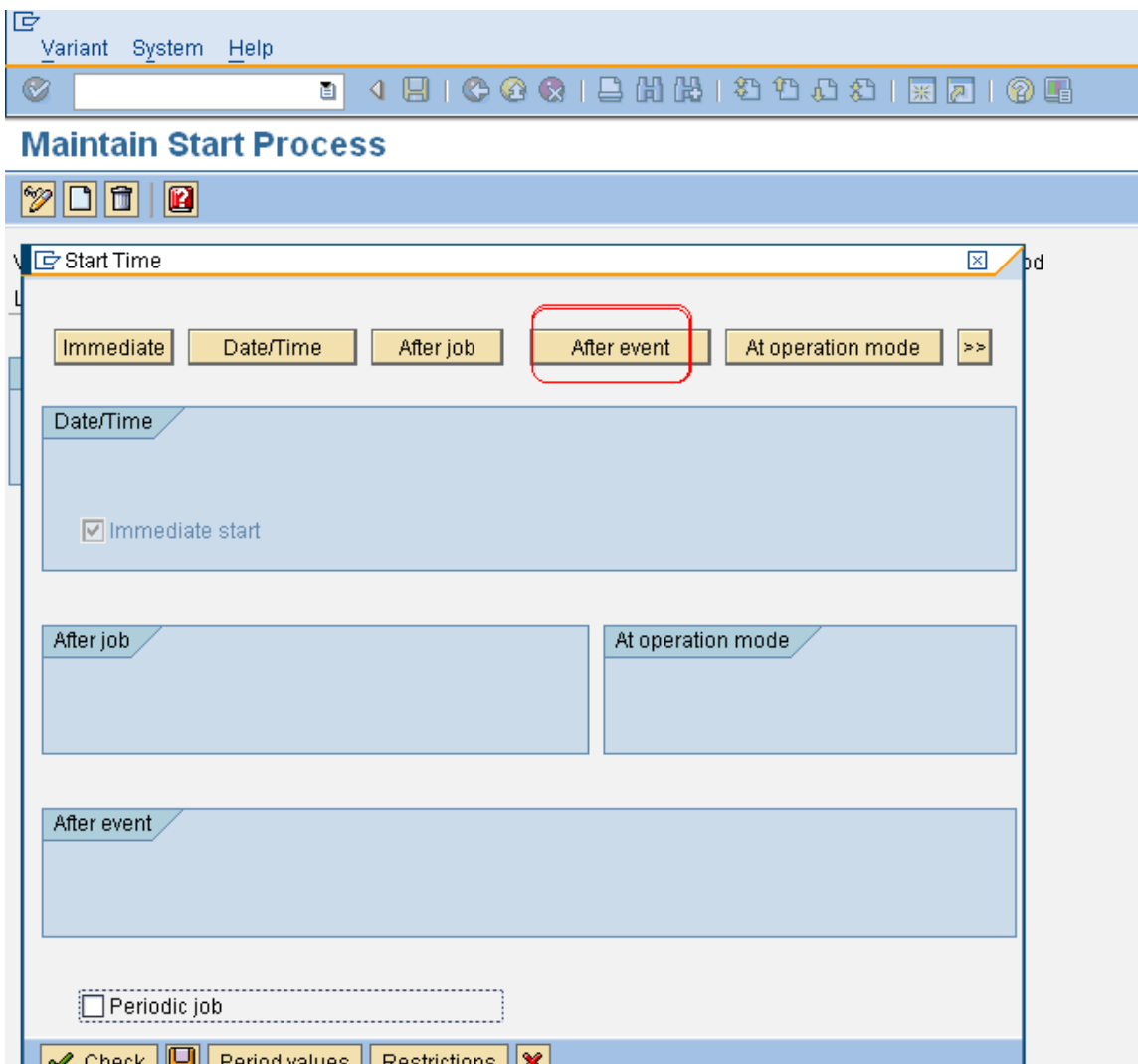
Go to RSPC and Select your Process Chain and configure the settings like below.



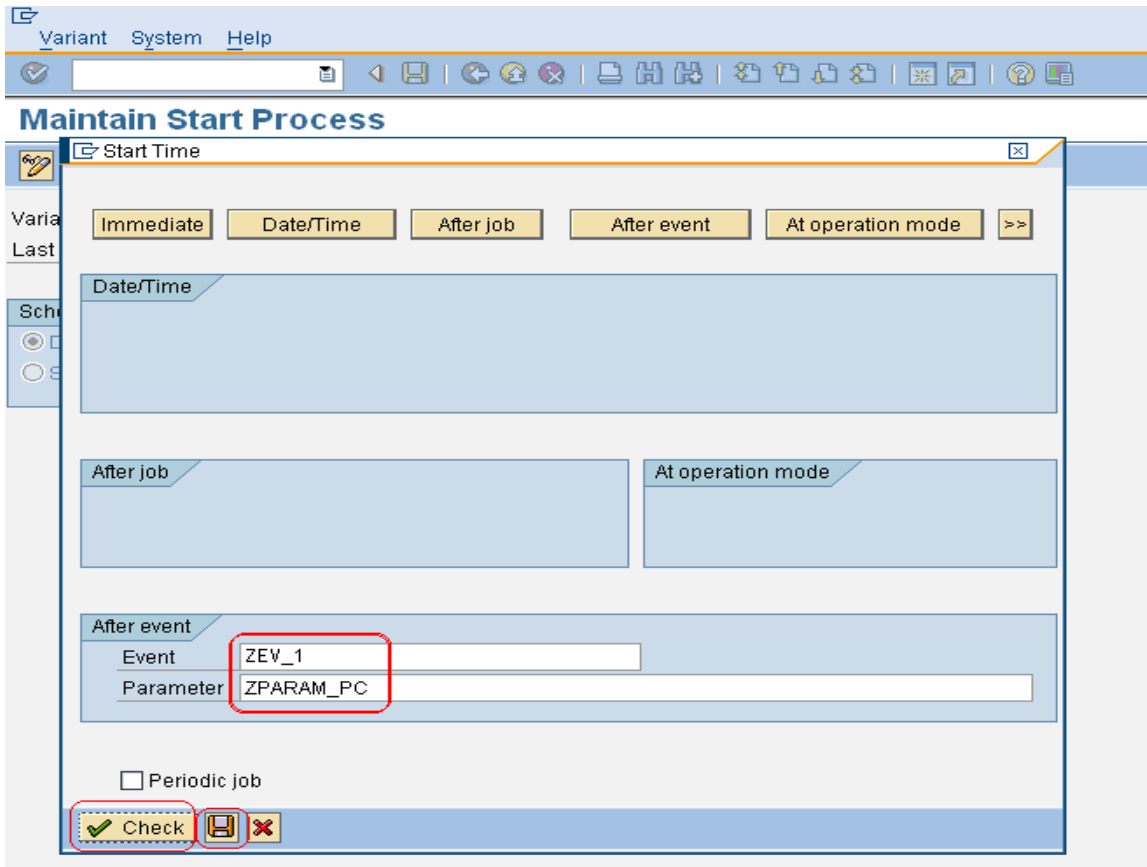
Click on Start and open in Change Mode and select Change Selections like below



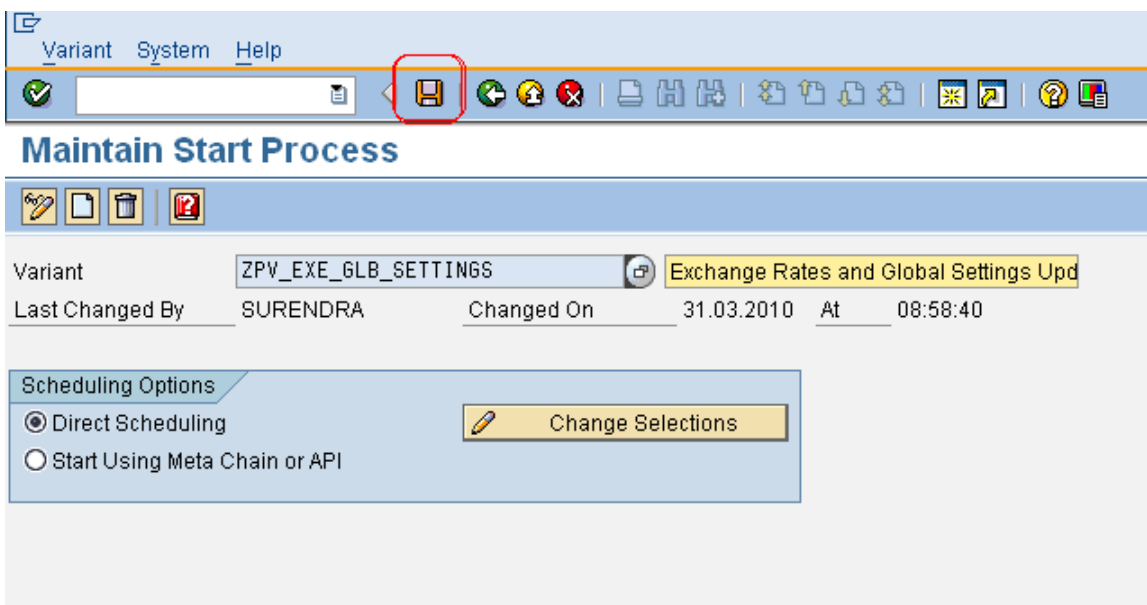
Click on After Event button.



Give out Event Technical name and Parameter details like below. The parameter name we already given in above program, so we need to give the same Parameter.



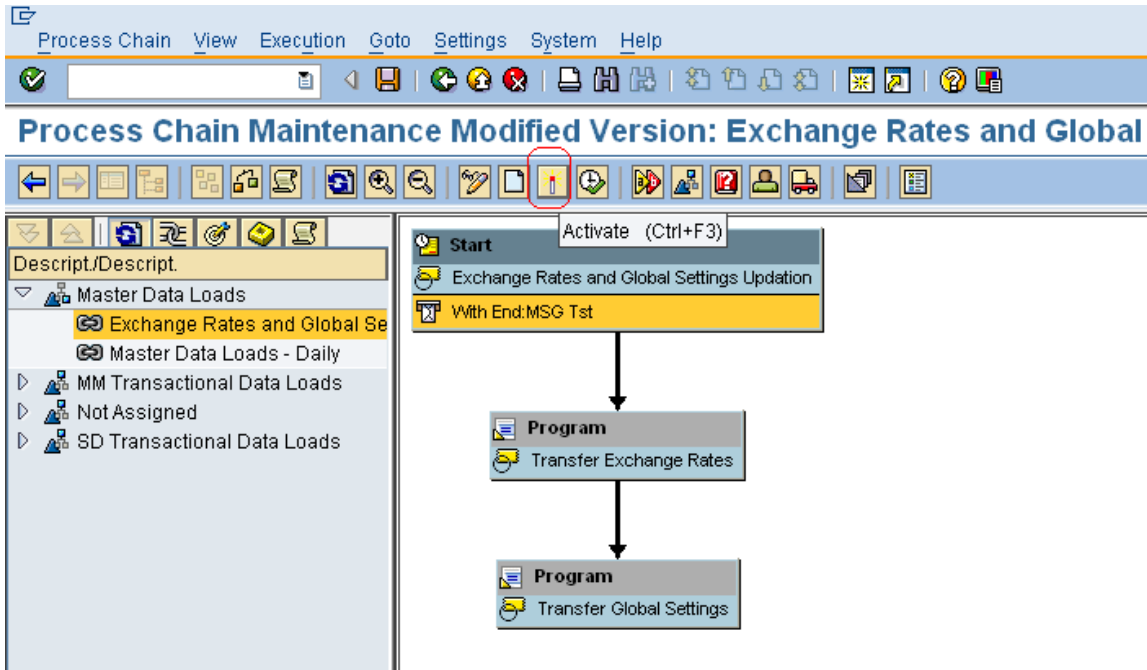
Check and Save.



Come back and Save like above.

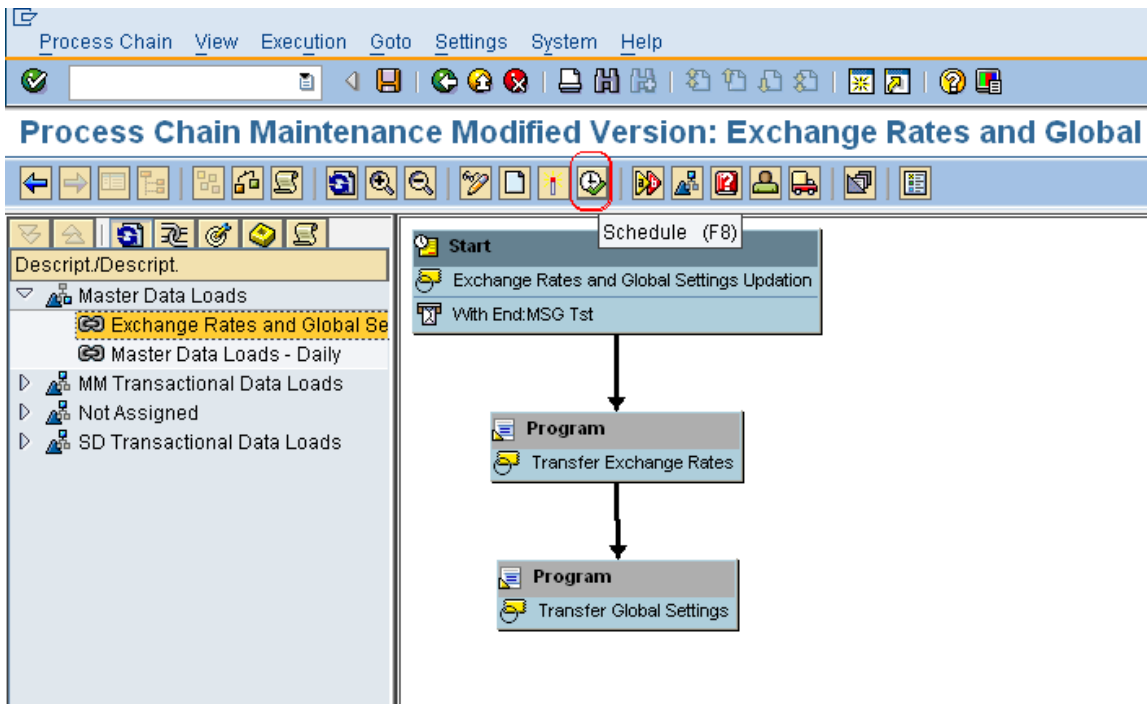
Activate the Process Chain:

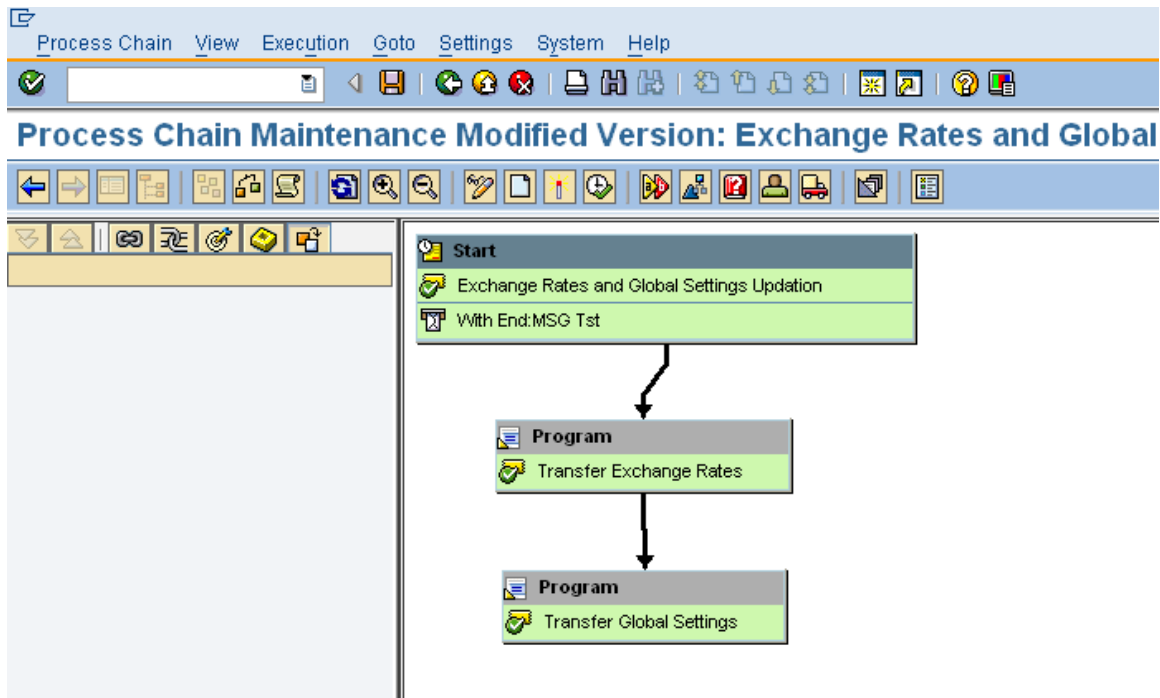
Activate the Process Chain like below.



Execute the Process Chain:

After Activation, you must execute the Process Chain, other wise it won't execute after Program will trigger the event. So you must Execute like below.



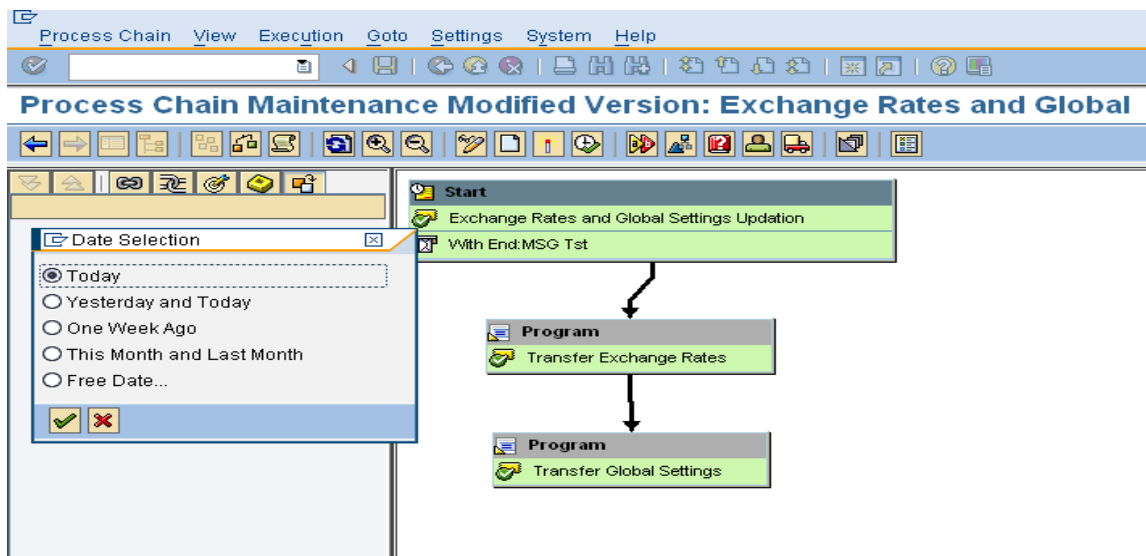


Then Run the Program **ZEVENT_TST**, if the dates are matching with System date i.e. System Last date with Function Module date then the Event will trigger and the Process chain will Trigger else Program won't trigger any Event and it will come out.

You create a Variant for Program **ZEVENT_TST** and execute every day, so daily it will check the date in program and then automatically Process chain will execute if the conditions are satisfied.

See the Log:

Go to RSPC and see the log for our PC.



The screenshot displays the SAP Process Chain Maintenance interface. The title bar reads "Process Chain Maintenance Modified Version: Exchange Rates and Global". The main window shows a process chain diagram with the following steps:

- Start**
 - Exchange Rates and Global Settings Update
 - With End:MSG Tst
- Program**
 - Transfer Exchange Rates
- Program**
 - Transfer Global Settings

Arrows indicate the flow from the Start event to the first Program, and then to the second Program.

On the left, a table shows the process chain history:

Descript./Date/Time	Log ID
Exchange Rates and GI	
18.01.2010	
16.04.2010	
10:39:48	LAST_SAVI
10:39:48	LAST_ACT

Like that you can use the same logic for other purposes.

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