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BASIS JOBS TEAM POSTS

RUNNING BACKGROUND JOB BY TRIGGERING AN EVENT

📅 November 23, 2015 👤 Siva Prasad 💬 Leave a comment

Step1. To create an event go to Tx- SM62



Step2. Select the 4th tab and to create an event click on the Create button.

Created	Background Processing Event	Description	Changed by	Date	Time
SAP	SAP_KK1_UPLOAD_FINISHED	Upload of time events using CC1 complete	SAP	21.04.1997	13:01:52
SAP	SAP_LANGUAGE_FILL	Language Supplementation	SAP	16.01.1995	16:58:07
SAP	SAP_LANGUAGE_IMPORT	Language import	SAP	16.01.1995	16:57:57
SAP	SAP_MONITORING_STARTUP_DISPATCH	Event to Start Monitoring Start-Up Dispatching in Background	SAP	01.07.2003	10:01:33
SAP	SAP_NEW_CONTROL_RECIPES	New control recipes created	SAP	11.07.1994	13:54:37
SAP	SAP_NEW_PROCESS_MESSAGES	New process messages received	SAP	11.07.1994	13:53:50
SAP	SAP_OPMODE_SWITCH		SAP	26.01.1994	17:36:36
SAP	SAP_QEVENT	Event at the start of a background job via QAPI	SAP	27.06.1994	11:45:18
SAP	SAP_RSCSMNUDATA		SAP	05.08.1999	10:24:11

Step3. Provide the details and continue to Save.



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Background Events: Overview and Administration

Event History Criteria Reorganization BckProcEvents

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

Created ...	Background Processing Event	Description	Changed by	Date	Time
SAP	SAP_KK1_UPLOAD_FINISHED	Upload of time events using CC1 complete	SAP	21.04.1997	13:01:52
SAP	SAP_LANGUAGE_FUL	Language Supplement	SAP	16.01.1995	16:58:07
SAP				1995	16:57:57
SAP				2003	10:01:33
SAP				1994	13:54:37
SAP				1994	13:53:50
SAP				1994	17:36:36
SAP				1994	11:45:18
SAP				1999	10:24:11
SAP				07.01.2009	14:50:14

Event Definition

Event: SAP_TEST_EVENT ✓

Description: Test Event

☒ System

Save

Step4. The event is successfully created.

Background Events: Overview and Administration

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

Created ...	Background Processing Event	Description	Changed by	Date	Time
SAP	SAP_START_EHS_ES_BUS1077		SAP	07.01.2009	14:50:14
SAP	SAP_START_EHS_INH_PROCESS	Start Inheritance Process	SAP	14.07.2000	10:46:07
SAP	SAP_START_EHS_RDO_DISPATCHER	Start dispatcher for report shipping	SAP	31.05.1997	13:58:29
SAP	SAP_START_EHS_RDO_EVENTHANDLER	Start event handler for report shipping	SAP	31.05.1997	13:57:33
SAP	SAP_START_EHS_RDO_SAVE	Start work process to save report shipping requests	SAP	16.12.1997	16:56:20
SAP	SAP_START_WWI_DISPATCHER	Start a WWI dispatcher	SAP	07.04.1997	09:36:44
SAP	SAP_START_WWI_WORKPROCESS	Start a WWI work process for EH&S report generation	SAP	04.04.1997	14:15:19
SAP	SAP_SYSTEM_START		SAP	07.09.1993	13:31:34
SAP	SAP_SYSTEM_START_VMC		SAP	31.05.2011	09:22:08
SAP	SAP_SYSTEM_STOP		SAP	07.09.1993	13:30:13
SAP	SAP_TEST		SAP	07.07.1993	10:59:37
SAP	SAP_TEST_EVENT ✓	Test Event		22.04.2015	15:12:57
SAP	SAP_TRANSLATION_WORKLIST_START	Start signal for background jobs in the translation environment	SAP	02.11.1998	12:51:11
SAP	SAP_TRIGGER_RDDIMPDP	Event to start transport program RDDIMPDP	SAP	16.05.1995	21:09:59
SAP	SAP_TRIGGER_RDDIMPDP_CLIENT		SAP	16.05.1995	21:09:29

Step5. Create a program to raise an event by calling the Function module.

- Access Control Management
- Test Web Service / WSDL File using SoapUI
- Web Service – Service Provider
- CDS Custom Entity
- Virtual Elements in CDS
- Use of keyword WITH in ABAP SQL
- ABAP Function- CONCAT_LINES_OF()
- Dynamic Select in AMDP

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ABAP Editor: Change Report ZRAISE_EVENTReport Active

```

1
2  REPORT  ZRAISE_EVENT.
3
4  CALL FUNCTION 'BP_EVENT_RAISE'
5    EXPORTING
6      eventid                = 'SAP_TEST_EVENT' ✓
7    *  EVENTPARM              = ' '
8    *  TARGET_INSTANCE        = ' '
9    *  TARGET_MODE            = ' '
10   *  EXCEPTIONS
11    *  BAD_EVENTID           = 1
12    *  EVENTID_DOES_NOT_EXIST = 2
13    *  EVENTID_MISSING       = 3
14    *  RAISE_FAILED          = 4
15    *  OTHERS                = 5
16
17  IF sy-subrc = 0.
18    WRITE :/ 'Event Triggered'.
19  ENDIF.

```

Step6. Here we have a report program.

ABAP Editor: Change Report ZBACK_REPORTReport Active

```

3
4  REPORT  ZBACK_REPORT.
5
6  WRITE :/ 'Output triggered by job after event is raised'.

```

Step7. Go to Tx- SM36 and create a job.

Define Background Job

Start condition Step Job selection Own jobs Job wizard Standard jobs

General data

Job name	ZBACK_JOB_AFTER_EVENT ✓
Job class	A
Status	Scheduled
Exec. Target	<input type="text"/> Spool list recipient

Job start	Job frequency
<div></div>	<div></div>

Job steps

<div></div>

Step8. Provide the job step- i.e the report that will run when job will be executed. Save.

Define Background Job

Start condition Step Job selection Own job

General data

Job name: ZBACK_JOB_AFTER_EVENT
 Job class: A
 Status: Scheduled
 Exec. Target:

Job start

Job steps

Create Step 1

User: [Redacted]

Program values

ABAP program External command External program

ABAP program

Name: ZBACK_REPORT ✓
 Variant:
 Language: EN

External command (command pre-defined by system administrator)

Name:
 Parameters:
 Operating sys.:
 Target server:

External program (direct command input by system administrator)

Name:
 Parameter:
 Target host:

Check Print specifications

Step9. Go Back.

Step List Overview

Pool

No.	Program name/command	Prog. type	Spool list	Parameters	User	Lang.
1	ZBACK_REPORT	ABAP			[Redacted]	EN

Step10. Select the Job Start Condition.

Define Background Job

Start condition Step Job selection Own jobs Job wizard Standard jobs

General data

Job name ZBACK_JOB_AFTER_EVENT

Job class A

Status Scheduled

Exec. Target

Job start **Job frequency**

Job steps

1 Step(s) successfully defined

Step11. Click on the after Event button.

Define Background Job

Start condition Step Job selection Own jobs Job wizard Standard jobs

Start Time

Immediate Date/Time After job After event At operation mode >>

Date/Time

After job At operation mode

After event

Check

Step12. The below screen appears.

Define Background Job

Start condition Step Job selection Own jobs Job wizard Standard jobs

Start Time

Immediate Date/Time After job After event At operation mode >>

Date/Time

After job At operation mode

After event

Event

Parameter

☐ Periodic job

Check Save Cancel

Step13. Provide the job name and check->Save.

Define Background Job

Start condition Step Job selection Own jobs Job wizard Standard jobs

Start Time

Immediate Date/Time After job After event At operation mode >>

Date/Time

After job At operation mode

After event

Event SAP_TEST_EVENT ✓

Parameter

☐ Periodic job

Check

Step14. Click on the Job Selection button.

Define Background Job

Start condition Step **Job selection** Own jobs Job wizard Standard jobs

General data

Job name: ZBACK_JOB_AFTER_EVENT ✓

Job class: A

Status: Scheduled

Exec. Target: Spool list recipient

Job start

After Event

Event: SAP_TEST_EVENT ✓

Parameters:

Job frequency

Job steps

1 Step(s) successfully defined

Step15. Click on Execute button.

Simple Job Selection

Execute Extended job selection Information

Job name: ZBACK_JOB_AFTER_EVENT

User name:

Job status

☒ Sched. ☒ Released ☒ Ready ☒ Active ☒ Finished ☒ Canceled

Job start condition

From: 22.04.2015 To: 22.04.2015




or after event:

Job step

ABAP program name:

Step16. The below message shown when job is executed.





Simple Job Selection

 Execute  Extended job selection  Information

Job name


User name


Job status
☒ Sched. ☒ Released ☒ Ready ☒ Active ☒ Finished ☒ Canceled

Job start condition
From  22.04.2015 To  22.04.2015
 
or after event:

Job step
ABAP program name:

☒ No job matches the selection criteria





Step17. Executed the program to raise the event.

ABAP Editor: Change Report ZRAISE_EVENTReport Active

```

1
2 REPORT ZRAISE_EVENT.
3
4 CALL FUNCTION 'BP_EVENT_RAISE'
5   EXPORTING
6     eventid                = 'SAP_TEST_EVENT'
7   *  EVENTPARM              = ' '
8   *  TARGET_INSTANCE        = ' '
9   *  TARGET_MODE            = ' '
10  *  EXCEPTIONS
11   *  BAD_EVENTID            = 1
12   *  EVENTID_DOES_NOT_EXIST = 2
13   *  EVENTID_MISSING        = 3
14   *  RAISE_FAILED           = 4
15   *  OTHERS                 = 5
16
17 IF sy-subrc = 0.
18   WRITE :/ 'Event Triggered'.
19 ENDIF.

```

Step18. We have the report output.

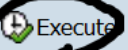
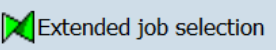
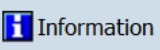
Event raise program

Event raise program

Event Triggered

Step19. Now Execute the job.

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:







Job step
 ABAP program name:

☒ No job matches the selection criteria

Step20. We have the job output. To see the spool click on the spool icon.



Job Overview

 Release
 
 Spool
  Job log
  Step
  Application servers

Job overview from: 22.04.2015 at: : :
 to: 22.04.2015 at: : :
 Selected job names: *
 Selected user names:


☐ Scheduled
 ☒ Released
 ☒ Ready
 ☒ Active
 ☒ Finished
 ☒ Canceled


☐ Event controlled Event ID: :
☐ ABAP program Program name :


Job	Spool	Job doc	Job CreatedB	Status	Start date	Start time	Duration(sec.)	De
ZBACK_JOB_AFTER_EVENT				Finished	22.04.2015	15:22:00	0	
*Summary							0	

Step21. Click on the output type.

Output Controller: List of Spool Requests




Spool no.	Type	Date	Time	Status	Pages	Title
<input type="checkbox"/> 7378		22.04.2015	18:52	-	1	LIST1S LP01 ZBACK_REPORT




Step22. Here we have the job report output.

Graphical display of spool request 7378 in system



22.04.2015 Program ZBACK_REPORT

Output triggered by job after event is raised



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