通过事件触发后台作业

Summary

Triggers an event in the background-processing system from an ABAP program.

Description

Events let you start background jobs under defined conditions. The event IDs are defined in transaction SM62 (event arguments are specified when the job is scheduled). When you define a new event, a transport request must be manually created if it is to be transported to another system.

Parameters

EXPORTING

EVENTID The event name, defined in SM62 EVENTPARM Job can be scheduled to wait for an EVENTID or combination of EVENTID and EVENTPARM

Example

REPORT ZEXAMPLE.

DATA: Q_EVENT LIKE TBTCJOB-EVENTID VALUE 'SAP_QEVENT', Q_EVENTPARM LIKE TBTCJOB-EVENTPARM.

CALL FUNCTION 'BP_EVENT_RAISE'
EXPORTING
EVENTID = Q_EVENT
EVENTPARM = Q_EVENTPARM
EXCEPTIONS
BAD_EVENTID = 1
EVENTID_DOES_NOT_EXIST = 2
EVENTID_MISSING = 3
RAISE_FAILED = 4
OTHERS = 5.
If SY-SUBRC NE 0.
WRITE:/ 'EVENT', Q_EVENT, 'NOT RAISED'.
ELSE.
WRITE:/ 'EVENT', Q_EVENT, 'RAISED SUCCESSFULLY'.
ENDIF.

1、利用system event 或者创建event. TCODE: SM62



2、创建事件触发的后台作业



3、程字中调用函数 'BP_EVENT_RAISE' 当程字中该函数的事件与参数与ob一致时,程字运行成功后机会触发后台作业运行。

【ABAP】使用Event来运行Background Job

使用Event来触发Background Job在SAP中应用也非常广泛, 另外在BW中是使用非常频繁, 最常见的一个应用就是使用Event来触发Process chain的执行(可以参考自己的BW PA培训笔记-Process Chain Event米trigger).

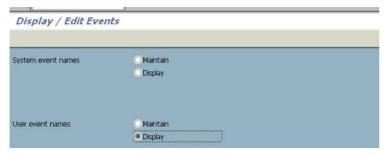
在传统的ABAP中,也许见得最多的就是使用Event来运行background job,这个可以在SM36中进行定义.

1.实例

+ 1 - 刡开Custom Event

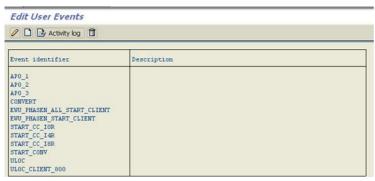
Tcode: SM62 Display/Edit Event

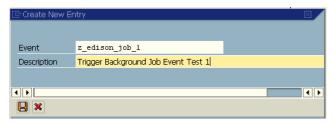
(如果是新版本,SM62与SM64均可;同时还可以使用方法CREATE of class CL_BATCH_EVENT来创建)



注意,这里是自己创建新的Event,也可以查看system/user event

然后可以得到目前存在的custom event





保存即可.

+ 2 - 刡开Background Job岭Step

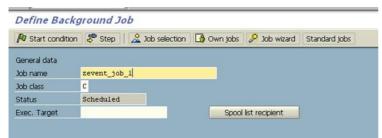
Tcode: SE38

创建一个简单的report

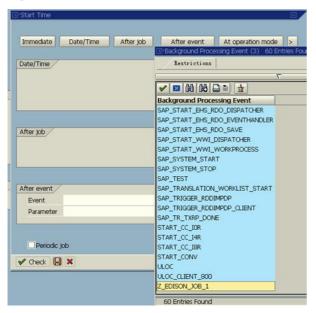


+ 3 - 刡开Background Job

Tcode: SM36 Define Job



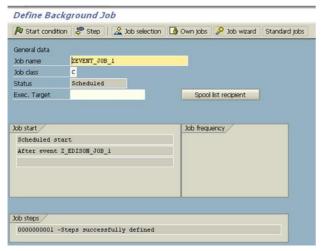
创建start condition



选择刚创建的Event

然后创建step即上面第二步所创建的report

最后Job为:



然后save并release

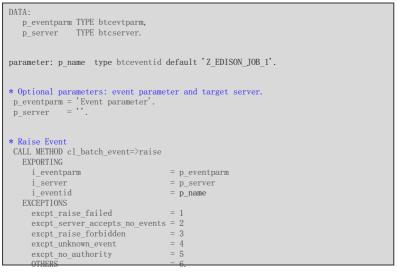
+ 4 - 刡开Program 社Raise Event

Tcode: SE38

创建一个简单程序来Raise Event

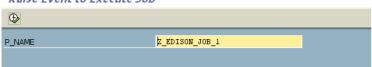
```
*& Report ZTEST_JOB_2
*&
*&-
*&
    Raise Event to Execute Job
*&
REPORT ZTEST_JOB_2 no standard page heading .
parameter: p_name type BTCSEV-EVENTID default 'Z_EDISON_JOB_1'.
*---Raise Event
 CALL FUNCTION 'BP_EVENT_RAISE'
  EXPORTING
    EVENTID
                              = p_name
                               = ', ',
   EVENTPARM
   TARGET INSTANCE
  EXCEPTIONS
    BAD_EVENTID
                               = 1
    EVENTID_DOES_NOT_EXIST
    EVENTID_MISSING
    RAISE_FAILED
                                = 4
    OTHERS
                               = 5
 IF SY-SUBRC \Leftrightarrow 0.
   "Error
   message 'Raise Event Failed!' type 'E'.
   "Successfully
   message 'Raise Event Successfully!' type 'S'.
 ENDIF.
```

注意,BP_EVENT_RAISE已经obsolete了,可以使用cl_batch_event=>raise 来触发event.如下

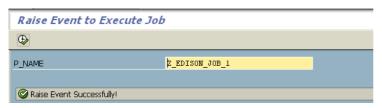


执行

Raise Event to Execute Job



然后F8执行



然后去SM37中可以查看:



可以发现ZEVENT_JOB_1被执行,可以看到spool list



使用Event触发Background job成功.

SM21 查看系统日志