

Sending Monitor Entries from Update Routine via Email



Applies to:

SAP BW 3.5/ BI 7.0 For more information, visit the [Business Intelligence homepage](#).

Summary

Sometimes business needs to identify the incorrect vendor information based on Product/Location combination, from the list of transactional entries, for the data which doesn't exist in the master data and not updated into the data target. In the standard data load process, you can check during the upload process whether the master data exists for certain characteristic and subsequently define a desired error handling. The update routine should write an entry for the respective vendor information to the monitor and notifying the business about the incorrect entries.

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Business Scenario

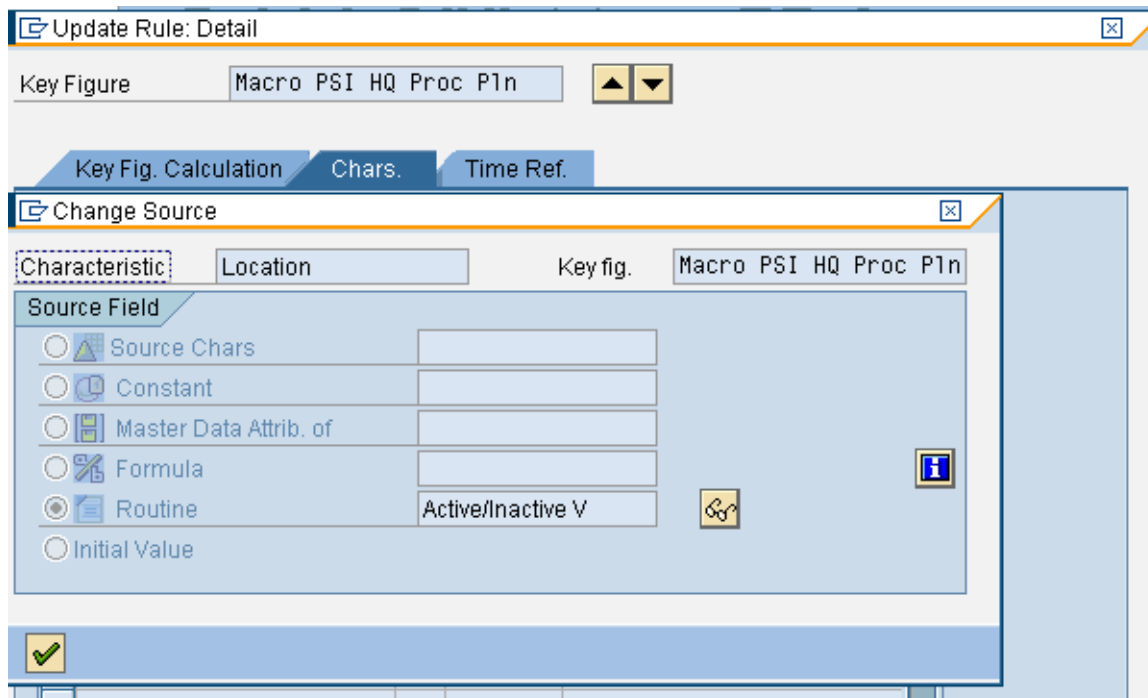
Business needs to identify the incorrect vendor information based on Product/Location combination, from the list of transactional entries, for the data which doesn't exist in the master data and not updated into the data target. In the standard data load process, you can check during the upload process whether the master data exists for certain characteristic and subsequently define a desired error handling. The update routine should write an entry for the respective vendor information to the monitor and notifying the business about the incorrect entries.

Step by Step Solution

1) Create an update rule for your Infocube. Within the maintenance of the update rules

Double-click on any key figure, in the example the key figure "Macro PSI HQ Proc Plan".

Select the characteristic tab strip; choose the characteristic in question (in our case "Location"). Then, press the button for the method in the respective line to choose the icon for "Routine".



2) Enter the below code (Please note that the field names of the sample coding are not relevant and will be different than in your own Infocube and Communication Structure).

```
SELECT SINGLE /bic/zcspplnr /bic/zvendor INTO v_supplr v_vendor FROM /bic/pzcprodloc WHERE
/bic/zc9amatnr = COMM_STRUCTURE-/bic/zcrmodel AND objvers = 'A'.
```

```
IF sy-subrc = 0 .
  IF v_supplr = '103' .
    RESULT = v_vendor .
    RETURNCODE = 0.
  ELSE .
    RESULT = v_vendor .
    RETURNCODE = 0 .
    MONITOR-msgid = 'RSM'.
    MONITOR-msgty = 'I'.
    MONITOR-msgno = '799'.
    CONCATENATE 'No Active Primary Vendor FOR'
    COMM_STRUCTURE-/bic/zcrmodel INTO v_text .
    MONITOR-msgv1 = v_text.
```

```

MONITOR-msgv2 = v_vendor.
APPEND MONITOR.
ENDIF.
ENDIF.

```

3) Activate update rules.

InfoCube	ZDASHINT	DASH_SNP_INTERFACE
InfoSource	ZIS_MACPSI_PPLAN	Infosource for Macro PSI PUR Plan
Version	<input checked="" type="checkbox"/> Active	Saved
Object status	<input checked="" type="checkbox"/> Active, executable	
Last Changed By	SK07580	06/16/2009 04:23:32
Person Responsible	SK07580	
<input type="checkbox"/> Display Start Routine		
Update rules		
Status	Key Figures	Srce Fields
<input type="checkbox"/>	Category AvP-Purchase Plan unit	X
<input type="checkbox"/>	S-Budget / Sales Plan (Units)	X
<input type="checkbox"/>	I-Inventory Plan (Units)	X
<input type="checkbox"/>	FACTORY ATP	X
<input type="checkbox"/>	Copy In-transit	X
<input type="checkbox"/>	Forecast Sell In(Unconstrained)	X
<input checked="" type="checkbox"/>	Macro PSI HQ Proc Pln	Macro PSI HQ Proc Pln

4) Create ABAP Program to send the incorrect entries updated in the error log table – RSERRORLOG through mail.

ABAP Editor: Initial Screen

Program: ZMACPSI_PPLAN_ERRORLOG

Subobjects:

- Source code
- Variants
- Attributes
- Documentation
- Text elements

5) Enter the below source code to send the incorrect entries to Business via. Email.

```

*&-----*
*& Report  ZMACPSI_PPLAN_ERRORLOG
*&
*&-----*
*&
*&
*&-----*

REPORT  ZMACPSI_PPLAN_ERRORLOG.

tables: RSERRORLOG, SOMLRECI1, SODOCCHGI1, /SAPAPO/ADV_GEN.

types : email_address type BCSY_SMTPA .

DATA: LS_OBJCONT LIKE SOLISTI1 OCCURS 10 WITH HEADER LINE,
      LS_RECLIST LIKE SOMLRECI1 OCCURS 10 WITH HEADER LINE,
      LS_DOC_CHNG LIKE SODOCCHGI1,
      LV_TABIX LIKE SY-TABIX,
      v_cr_date type SY-DATUM,
      LV_NAME(15),
      i_total type i.

data: v_req like RSERRORLOG-REQUEST,
      v_temp(255) type C.

data : BEGIN OF I_MSGS OCCURS 0,
      MSGV1 like RSERRORLOG-MSGV1,
      MSGV2 like RSERRORLOG-MSGV2,
      END OF I_MSGS.

data : email_add type AD_SMTPADR occurs 5 with header line.

SELECTION-SCREEN BEGIN OF BLOCK b1 WITH FRAME.
parameters: s_zcube   like rsmonicdp-icube.
PARAMETERS :          P_sender like email_add.
PARAMETERS : P_OBJDR like SODOCCHGI1-OBJ_DESCR.
SELECT-OPTIONS :     S_RECVER for SOMLRECI1-RECEIVER NO INTERVALS.
SELECTION-SCREEN END OF BLOCK b1.

*&-----*
*&      START OF SELECTION
*&-----*

START-OF-SELECTION.

  loop at S_RECVER.
    CLEAR LS_RECLIST.
    LS_RECLIST-RECEIVER = S_RECVER-LOW.
    LS_RECLIST-REC_TYPE = 'U'.
    LS_RECLIST-EXPRESS = 'X'.
    APPEND LS_RECLIST.
    clear LS_RECLIST.
  endloop.

```

```

select single max( REQUEST ) into v_req from RSERRORLOG where INFOCUBE = s_zcube.

select MSGV1 MSGV2 into table i_msgs from RSERRORLOG where REQUEST = v_req.

loop at I_MSGS.
  concatenate I_MSGS-MSGV1 I_MSGS-MSGV2 into v_temp.
  LS_OBJCONT-LINE = v_temp.
  append LS_OBJCONT.
endloop.

* check the number of records
DESCRIBE TABLE LS_OBJCONT LINES i_total.
IF NOT LS_OBJCONT[] IS INITIAL .
*****
  move P_OBJDR TO LS_DOC_CHNG-OBJ_DESCR.

  CALL FUNCTION 'SO_NEW_DOCUMENT_SEND_API1'
    EXPORTING
      document_data          = LS_DOC_CHNG
      DOCUMENT_TYPE         = 'RAW'
      PUT_IN_OUTBOX         = 'X'
      COMMIT_WORK           = 'X'
    TABLES
      OBJECT_CONTENT        = LS_OBJCONT
      receivers              = LS_RECLIST
    EXCEPTIONS
      TOO_MANY_RECEIVERS    = 1
      DOCUMENT_NOT_SENT     = 2
      DOCUMENT_TYPE_NOT_EXIST = 3
      OPERATION_NO_AUTHORIZATION = 4
      PARAMETER_ERROR       = 5
      X_ERROR                = 6
      ENQUEUE_ERROR         = 7
      OTHERS                 = 8.



CASE SY-SUBRC.
  WHEN 0.
    LOOP AT S_RECVER.
      WRITE: / S_RECVER-low, ': succesfully sent'.
      skip.
    ENDLLOOP.


  WHEN OTHERS.
    WRITE: / 'Unexpected error occurred !'.
ENDCASE.
ELSE .
  WRITE : / 'No Error records found' .
ENDIF.

```

6) Create a variant to schedule this program in background, after the success of infocube load.


Macro PSI P Plan Error Log Entries



Infocube	ZDASHINT
Sender List	[REDACTED]
Email Subject	Error Records found for Macro PSI Upload
Receiver List	[REDACTED] 

7) Mail arrives in my email:

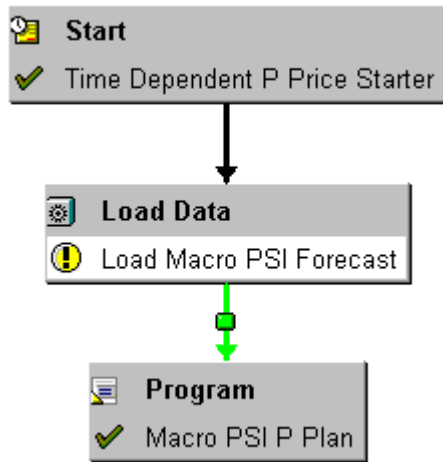
Error Records found for Macro PSI Upload

Created  Satish Kumar

No Secondary Vendor Exist FOR00558A
No Secondary Vendor Exist FOR00558A
No Secondary Vendor Exist FOR00558A
No Secondary Vendor Exist FOR00558A
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Appendix

Create a Process chain also to automate this process



Related Content

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

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