

How To... Automate Error Stack Analysis

Applicable Releases:

SAP NetWeaver 7.0

IT Practice:

Business Information Management

IT Scenario:

Enterprise Data Warehousing

Version 1.0

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Document History

Document Version	Description
1.00	First official release of this guide

Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
< Example text >	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

Icons

Icon	Description
	Caution
	Note or Important
	Example
	Recommendation or Tip

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1. Scenario

A level of automation and usability is required for daily monitoring of the requests from the error stack. The automation should provide the user an overview of the error stack requests with optional filter criteria for example on date and source system, feature to jump to the specific DTP maintenance or jump to the request monitor for further analysis of the errors.

2. Background Information

Currently the report RSB_ANALYZE_ERRORLOG provides an overview of all the DTP error stack requests and the number of records marked with errors but does not have the flexibility to use this information. This document provides a step by step instruction on how this information can be obtained in the similar way as the above mentioned report and automates the process of monitoring the error requests.

3. Prerequisites

- Relevant SAP Notes
 - 1083660
- Knowledge of SAP NetWeaver BW

4. Step-by-Step Procedure

We need to create the objects in the data flow to achieve the desired monitoring error stack capability and the detailed steps are listed below

4.1 Creation of Generic Extractor

1. The generic extractor will be based on a function module. Before creating the function module it is necessary to create a structure in the dictionary which acts as extract structure for the data to be extracted.

ABAP Dictionary: Initial Screen

Dictionary: Maintain Structure

Component	RTy..	Component type	Data Type	Length	D
DTP	<input type="checkbox"/>	/BI0/OITCTDTPID	CHAR	30	
REQ	<input type="checkbox"/>	/BI0/OITCTREQSID	NUMC	9	
DPID	<input type="checkbox"/>	RSDATAPID	NUMC	6	
REC	<input type="checkbox"/>	RSARECORD	INT4	10	
SRCSYS	<input type="checkbox"/>	/BI0/OITCTSYSID	CHAR	10	
SRCOBJECT	<input type="checkbox"/>	/BI0/OITCTSOURCE	CHAR	45	
SRC	<input type="checkbox"/>	RSBKSRNM	CHAR	45	
OBJVERS	<input type="checkbox"/>	/BI0/OITCTOBJVERS	CHAR	1	
PRCSTYP	<input type="checkbox"/>	/BI0/OITCTPRCSTYP	CHAR	10	
TIMSTMP	<input type="checkbox"/>	/BI0/OITCTTIMSTMP	NUMC	14	
SRCOBJTYP	<input type="checkbox"/>	/BI0/OITCTSRCTYP	CHAR	4	
REQDT	<input type="checkbox"/>	/BI0/OICALDAY	DATS	8	
NORECS	<input type="checkbox"/>	/BI0/OITCTRECORDS	DEC	17	

- In transaction SBIW create a generic extractor based on a function module Z_ESA_EXTRACT_DATA (see Appendix) and the above created structure as the extract structure.

Create DataSource for Transactn data: ZDSESA

Generic Delta

DataSource	ZDSESA	<input type="button" value="Extraction from View"/>
Applic. Component	BW_TECH	<input type="button" value="Extraction from Query"/>
Datenabgleich	<input checked="" type="checkbox"/>	<input type="button" value="Extraction by FM"/>
Obj. status	New	

Texts

Short description	Data Source ESA
Medium description	DataSource for Error Stack Analy
Long description	DataSource for Error Stack Analysis

Extraction from DB View

View/Table	
ExtractStruct.	

Extraction frm SAP Query

InfoSet	
---------	--

Extraction by Function Module

Function Module	Z_ESA_EXTRACT_DATA
Extract.Struct.	ZSESA

- Go to the fields list and select the fields as shown in the following screenshot

DataSource: Customer version Edit

Header Data

DataSource	ZSESA	Package	\$TMP
Description	DataSource for Error Stack Analysis		

Extraction

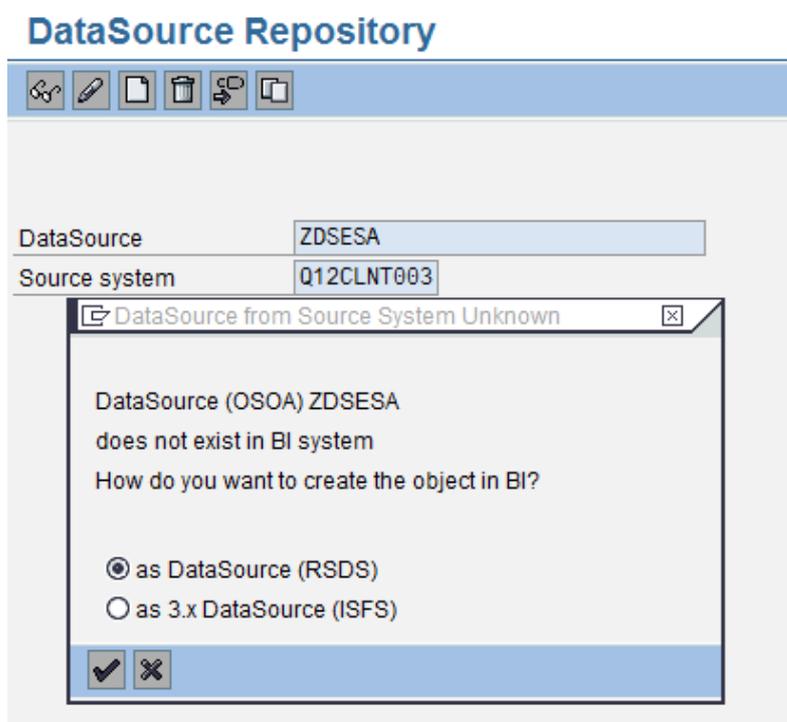
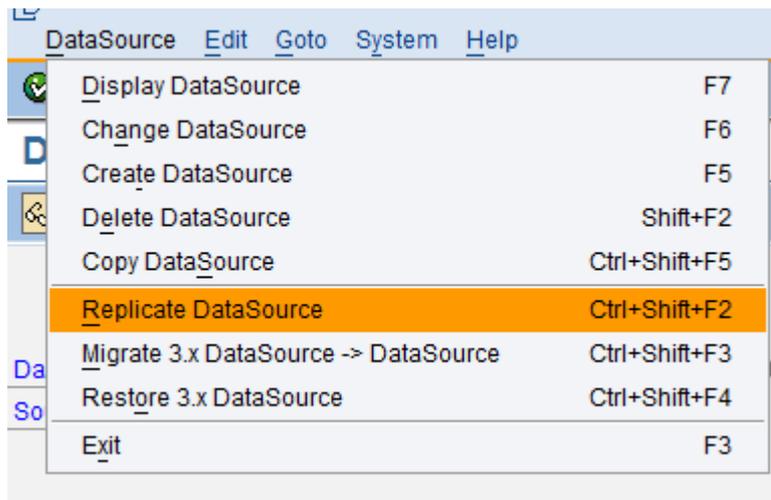
ExtractStruct.	ZSESA
Direct Access	1
Delta Update	<input type="checkbox"/>
DataSource zum Datenabgleich <input checked="" type="checkbox"/>	

Field Name	Short text	Selection	Hide field	Inversion	Field only
DTP	Data Transfer Process	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REQ	Data Request (SID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DPID	Data packet number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REC	Data record number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SRCSYS	BW System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SRCOBJECT	Source Object	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SRC	Name of the Data Source for a Data Trans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OBJVERS	Object Version	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRCSTYP	Process Type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TIMSTMP	UTC Time Stamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SRCOBJTYP	Source Object Type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REQDT	Calendar Day	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NORECS	Number of Records	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

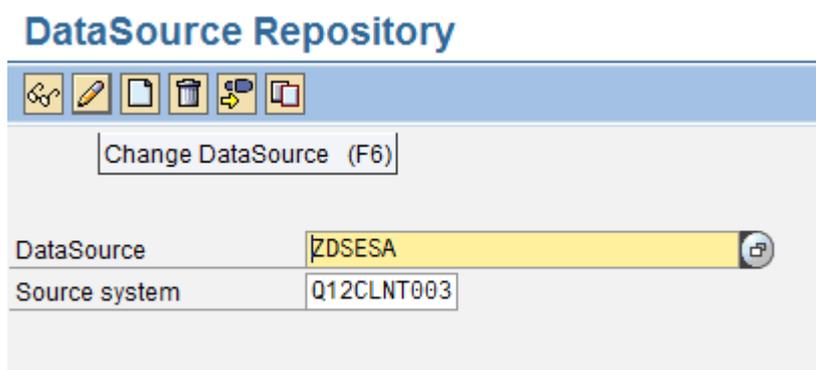
- From transaction RSDS replicate the DataSource creating it as object type RSDS

DataSource Repository

DataSource	ZSESA	
Source system	Q12CLNT003	



- Using the change option and on the following screen activate the DataSource if it is not already active



4.2 Creation of Objects in the Dataflow

1. Create VirtualProvider

The screenshot shows the 'Edit InfoCube' dialog box in SAP. The 'InfoCube' field is set to 'ZESACUBE' and the 'InfoArea' is 'ZIA_ERRSTACK'. The 'InfoProvider Type' section has 'VirtualProvider' selected, with 'Without Physical Data Store' and 'Based on Data Transfer Process for Direct Access' options. The 'System Type (Namespace)' section has 'SAP (Delivered by SAP)' selected. The 'Delta Capability' section has a field for 'Name of Delta Cache Class'.

Edit InfoCube

InfoCube: ZESACUBE ESA Cube: _____
 InfoArea: ZIA_ERRSTACK ZIA_ERRSTACK

Copy From: _____

InfoProvider Type

- Standard InfoCube Real Time
- With Physical Data Store
- VirtualProvider Do Not Transform Select.Cond.
- Without Physical Data Store
- Based on Data Transfer Process for Direct Access
 - With InfoSource 3.x _____
 - Unique Source System Assgmt
- Based on BAPI
 - With Source System _____
 - Execute Conv. Exit
- Based on Function Module

System Type (Namespace)

- SAP (Delivered by SAP)
- CUS (Generated by User)
- PAR (Partner)

Namespace: _____

Delta Capability

Name of Delta Cache Class: _____

Choose the following characteristics and Key Figures, save and activate the InfoCube

The screenshot shows the SAP InfoCube configuration interface. The main table lists dimensions and characteristics for the InfoCube 'ZESACUBE'.

Dimension/Characteristic	Techn. name / value	Fu...	O...	Data ...	L	Key Fi...	C...	N...	Ag...	Ex...	Reference...	U
InfoCube	ZESACUBE											
Object Information												
Version	New											
Save	Not saved											
Object Status	Inactive, not exec...											
Dimensions												
Data Package	ZESACUBEP											
Time	ZESACUBET											
Unit	ZESACUBEU											
Characteristics	ZESACUBE1											
Data Transfer	0TCTDTPID			CHAR	30						0TCTPRC...	
BW System	0TCTSYSID			CHAR	10						0TCTSYSID	
Source Code	0TCTSOURCE			CHAR	45						0TCTBWO...	
Data Request	0TCTREQSID			NUMC	09						0TCTREQ...	
Object Version	0TCTOBJVERS			CHAR	01						0TCTOBJV...	
Process	0TCTPRCSTYP			CHAR	10						0TCTPRC...	
UTC Time	0TCTTIMSTMP			NUMC	14						0TCTTIMS...	
Source Code	0TCTSRCTYP			CHAR	04						0TCTBWO...	
Navigation Attributes												
Key Figures												
Number of Records	0TCTRECORDS			DEC	09	Numb...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUM	SUM		

2. Create Transformation

The screenshot shows the 'Create Transformation' dialog box with the following configuration:

Target of the Transformation	
Object Type	InfoCube
Name	ZESACUBE
	ESA Cube

Source of the Transformation	
Object Type	DataSource
DataSource	ZDSESA
Source System	Q12CLNT003

At the bottom of the dialog, there are checkmark and close buttons.

Transformation Change

Transformation: RSDS ZDSESA Q12CLNT003 -> CUBE ZESACUBE

Source: DataSource for Error Stack Analysis (ZDSESA)

Target: ESA Cube (ZESACUBE)

Version: In Process

Active Version: Do(es) Not Exist

Pos	Key	Field	Descript.
1		DTP	Data Transfr Process
2		REQ	Data Request (SID)
3		DPID	Data packet number
4		REC	Data record number
5		SRCSYS	BW System
6		SRCOBJECT	Source Object
7		SRC	Source Object
8		OBJVERS	Object Version
9		PRCSTYP	Process Type
10		TIMSTMP	UTC Time Stamp
11		SRCOBJTYP	Source Object Type
12		REQDT	Calendar Day
13		NORECS	Number of Records

Rule	Rule Name	Pos	Key	InfoObject	Icor	Descript.	Inte
1	0CALDAY	1	🔑	0CALDAY	🕒	Calendar Day	
2	0TCTDTPID	2	🔑	0TCTDTPID	📄	Data Transfer Process	<input type="checkbox"/>
3	0TCTSYSID	3	🔑	0TCTSYSID	📄	BW System	<input type="checkbox"/>
4	0TCTOBJVERS	4	🔑	0TCTOBJVERS	📄	Object Version	<input type="checkbox"/>
5	0TCTPRCTYP	5	🔑	0TCTPRCTYP	📄	Process Type	
6	0TCTTIMSTMP	6	🔑	0TCTTIMSTMP	🕒	UTC Time Stamp	
7	0TCTSRCTYP	7	🔑	0TCTSRCTYP	📄	Source Object Type	
8	0TCTSOURCE	8	🔑	0TCTSOURCE	📄	Source Object	<input type="checkbox"/>
9	0TCTREQSID	9	🔑	0TCTREQSID	📄	Data Request (SID)	
10	0TCTRECORDS	10		0TCTRECORDS	📄	Number of Records	

3. Create DTP for Direct Access

Creation of Data Transfer Process

Data Transfer Proc.: ZDSESA / Q12CLNT003 -> ZESACUBE

DTP Type: DTP for Direct Access

Target of DTP

Object Type: InfoCube

Name: ZESACUBE (ESA Cube)

Source of DTP

Object Type: DataSource

DataSource: ZDSESA

Source System: Q12CLNT003

Change Data Transfer Process

Data Transfer Process: Activate Data Transfer Proces (Ctrl+F3) ZESACUBE

ID: DTP_4A63EB13UKXRL2DY4RMVZLGB7

DTP Type: DTP for Direct Access

Version: New (Inactive, not executable)

Extraction | Update | Execute

Data Source: DataSource (ZDSESA, Q12CLNT003) DataSource for Error Stack Analysis

Adapter: Synchronous Extraction SAPI (for Direct Access and Tests) Properties

Data Format: Already Binary

4.3 Creation of Query

1. Create ZQUERY_ESA on the on the InfoProvider

Free Characteristics

- Calendar Day

Area for Dimensions

Columns

- Key Figures
 - Number of Records

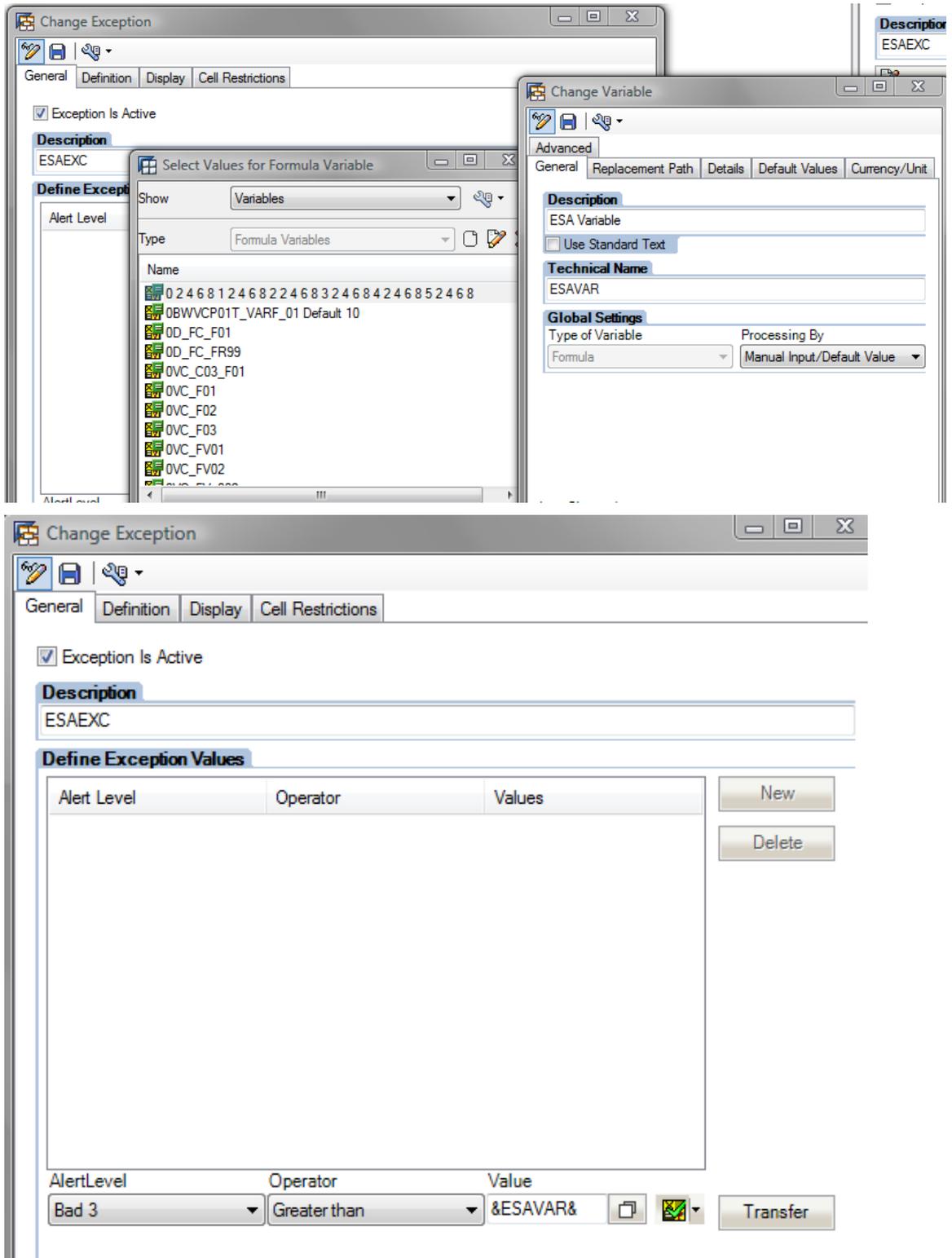
Rows

- BW System
- Data Transfr Process
- Data Request (SID)
- Source Object

Preview

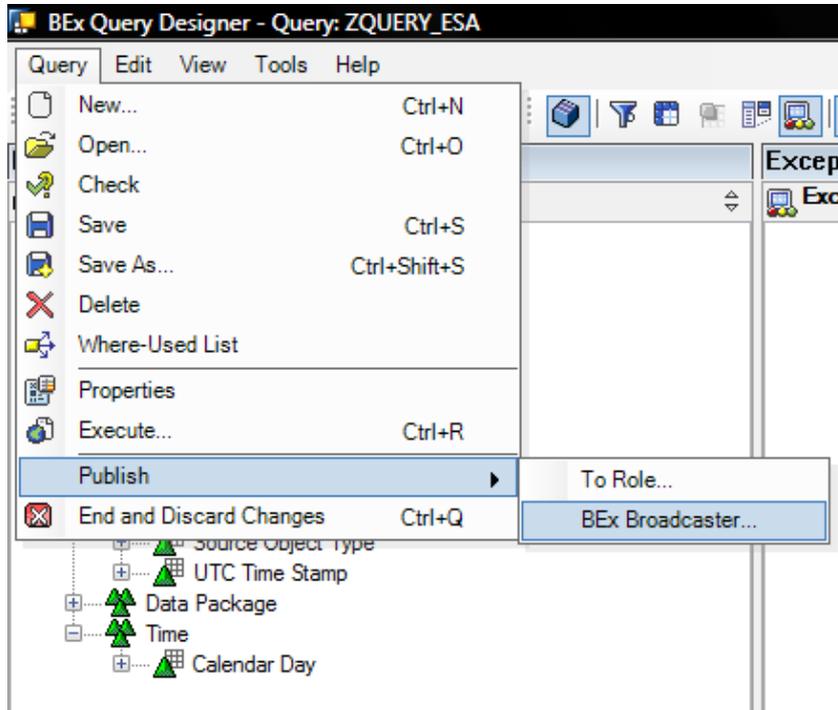
				Number of
a-BW Syste	a-Data Tra	a-Data Req	a-Source O	
			b-Source O	
		b-Data Req	a-Source O	
	b-Data Tra	a-Data Req	a-Source O	
			b-Source O	
		b-Data Req	a-Source O	
b-BW Syste	a-Data Tra	a-Data Req	a-Source O	
			b-Source O	
		b-Data Req	a-Source O	
	b-Data Tra	a-Data Req	a-Source O	
			b-Source O	
		b-Data Req	a-Source O	

2. Create exception on the KeyFigure „ Number of Records“ defining a limit

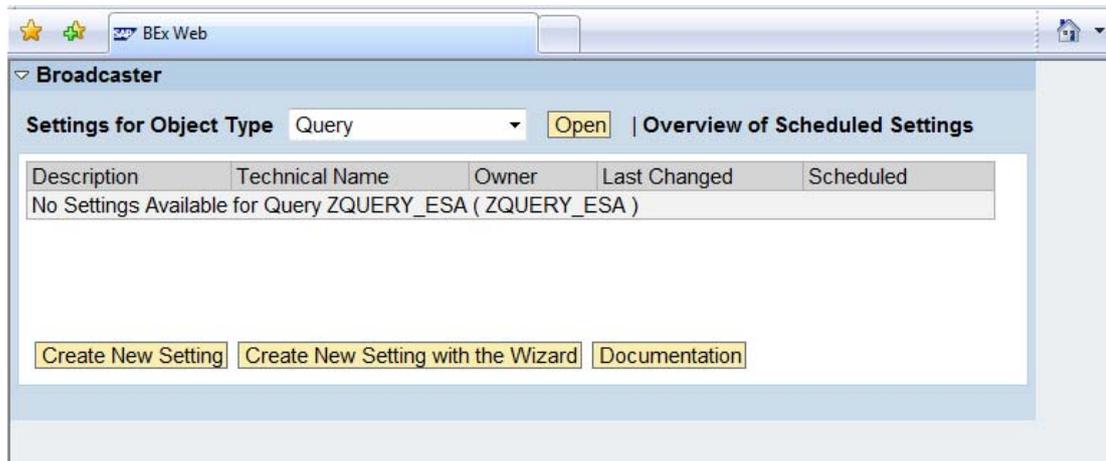


4.4 Information Broadcasting

1. From the Query Designer Menu publish the query through BEx Broadcaster



2. Create new setting



3. Define all the required settings for the broadcasting

The image shows two overlapping SAP configuration windows. The top window is titled "Setting ZESAIB1" and contains the following fields:

- Description:** ZESAIB1
- Distribution Type:** Broadcast E-Mail
- Output Format:** MHTML
- As ZIP File
- Recipient(s) Tab:**
 - User:** XXXXXXXX
 - User in Role:** (empty)
 - E-Mail Addresses:** xxxxxxxx@sap.com
 - Authorization User:** XXXXXXXX
 - Language:** English
 - User-specific

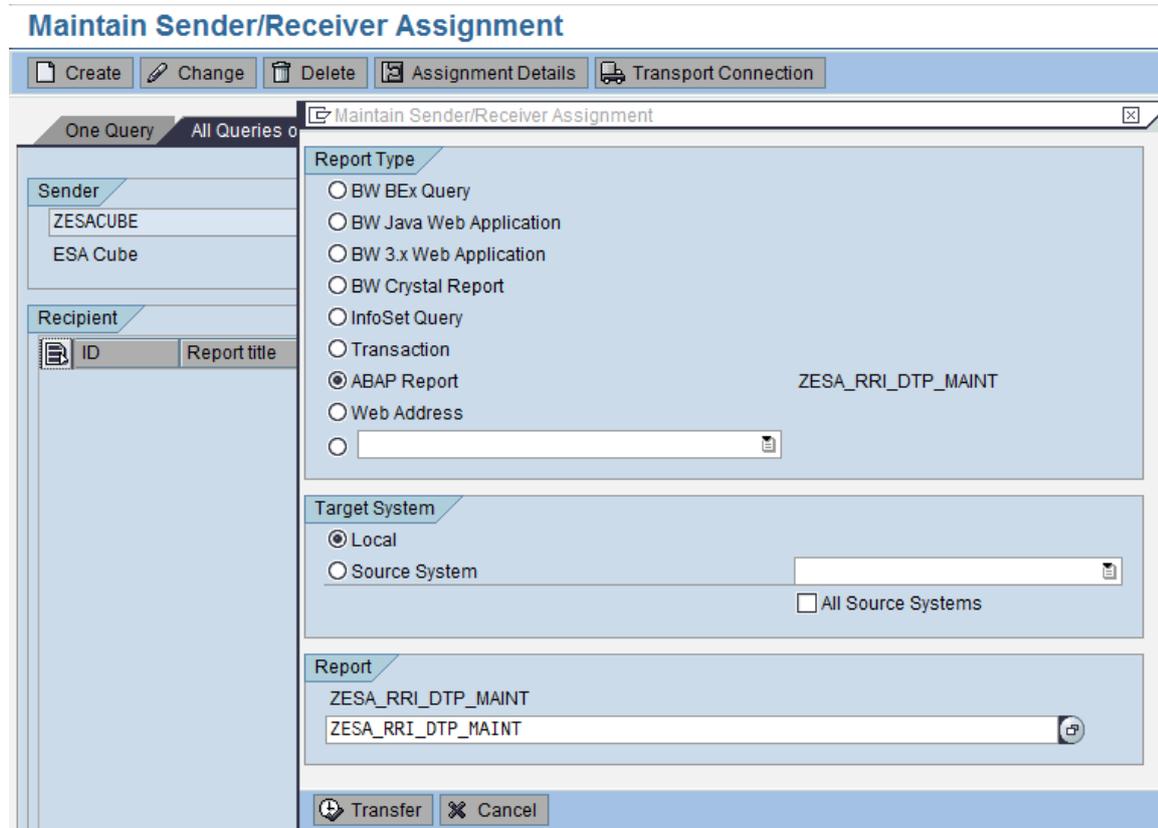
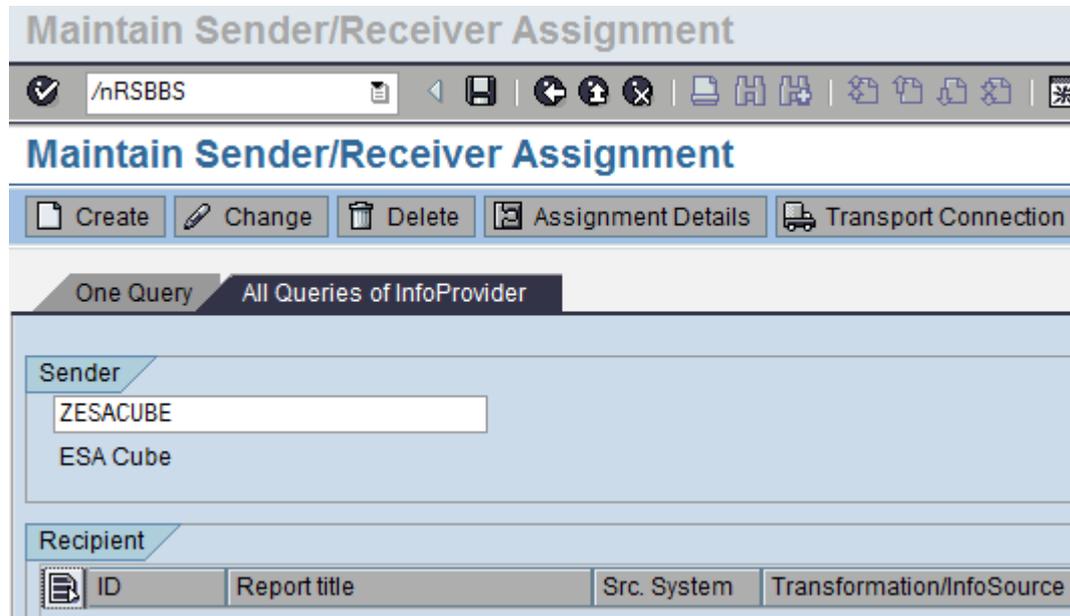
The bottom window is titled "Select Filter Value for BW System" and contains the following fields:

- New Filter Values:**
 - BW System:** Q12CLNT003
 - Search in Key
 - Search in Text
 - Maximum Number of Hits:** 200
 - Find:** [BW System](#)
 - Q12CLNT003 Q12 Client 003
 - Select All** **Deselect**
- Description of Filter Values:**
 - [] to []
 - Transfer** **Close**

The top window also has buttons for "Save", "Save as...", "Check", "Schedule", "Execute", and "Close". The bottom window has a "Create" button for Filter Values.

4.5 RRI – Maintain Sender/Receiver Assignment

Create the necessary reports to call the DTP maintenance and monitor ZESA_RRI_DTP_MAINT and ZESA_RRI_MONITOR. In the transaction RSBBS maintain the sender / receiver assignment for the query created above on the InfoProvider ZESACUBE



4.6 Query Results

1. Execute the Query

Available Variants: Save Save As... Delete [Show Variable Personalization](#)

General Variables		
Variable ⇅	Current Selection	Description
Exception on No. of Records		
Source System		
CalDay		

OK Check

Available Variants: Save Save As... Delete [Show Variable Personalization](#)

General Variables		
Variable ⇅	Current Selection	Description
Exception on No. of Records	0	
Source System	Q12CLNT003	
CalDay		

OK Check

ZQUERY_ESA

New Analysis Open Save As... Display As Table Information Send Print Version Export to Excel Comments

Columns	BW System ⇅	Data Transfr Process ⇅	Data Request (SID) ⇅	Source Object ⇅	Number of Records ⇅
Key Figures	Q12CLNT003	DTP_3WWRTKUKLVSV01F99190HKT LH	108998	RSDS/A/SBOOK Q12CLNT003	1
Rows			109046	RSDS/A/SBOOK Q12CLNT003	1
BW System			109048	RSDS/A/SBOOK Q12CLNT003	1
Data Transfr Process			109279	RSDS/A/SBOOK Q12CLNT003	1
Data Request (SID)			109373	RSDS/A/SBOOK Q12CLNT003	1
Source Object			109440	RSDS/A/SBOOK Q12CLNT003	1
Free characteristics			109711	RSDS/A/SBOOK Q12CLNT003	1
Calendar Day			109941	RSDS/A/SBOOK Q12CLNT003	1
			110142	RSDS/A/SBOOK Q12CLNT003	1
		DTP_3ZSLI6TAICN8U7PIA245JK97O	211414	RSDS/A/ZSBOOK Q12CLNT003	101
		DTP_41LE0K5UAJQF6875R21XQO97O	164243	RSDS/A/EDW1 Q12CLNT003	2
		DTP_45VIVB0JI9X0F7CKF18R84K2S	165474	RSDS/A/Z_RMBIKE_MDS Q12CLNT003	18
		DTP_466XUBYTMDYZ5UMA913CNC6VN	167937	RSDS/A/ZCT_DEMODS1 Q12CLNT003	13
		DTP_47GEC1UF0DKUOSWGCKFYGVNVO	179227	RSDS/A/ZBW350TR_1 Q12CLNT003	2
		DTP_48VPUERBCLHYD6OXYD6KLDIOJ	203797	RSDS/A/M_TRANSACTIONSRC Q12CLNT003	101
		DTP_48VPVSWF4H7IYBNG1MGQ874YB	206032	RSDS/A/DS_Q12_QB9_M70 Q12CLNT003	101

2. Using the context menu on selected record jump to DTP maintenance

DTP_3ZSLI6TAICN8U7PIA245JK97O	211414	RSDS/A/ZSBO
DTP_41LE0K5UAJQF6875R21XQO97O	164243	RSDS/A/EDW1
DTP_45VIVB0JI9X0F7CKF18R84K2S	165474	RSDS/A/Z_RMB
DTP_466XUBYTMDYZ5UMA913CNC6VN	167937	RSDS/A/ZCT_D
DTP_47GEC1UF0DKUOSWGCKFYGVNVO		RSDS/A/M_TRA
DTP_48VPUERBCLHYD6OXYD6KLDIOJ		RSDS/A/DS_Q1

Goto ▶ Maintain DTP

Filter ▶ Monitor

Change Drilldown ▶

Broadcast and Export ▶

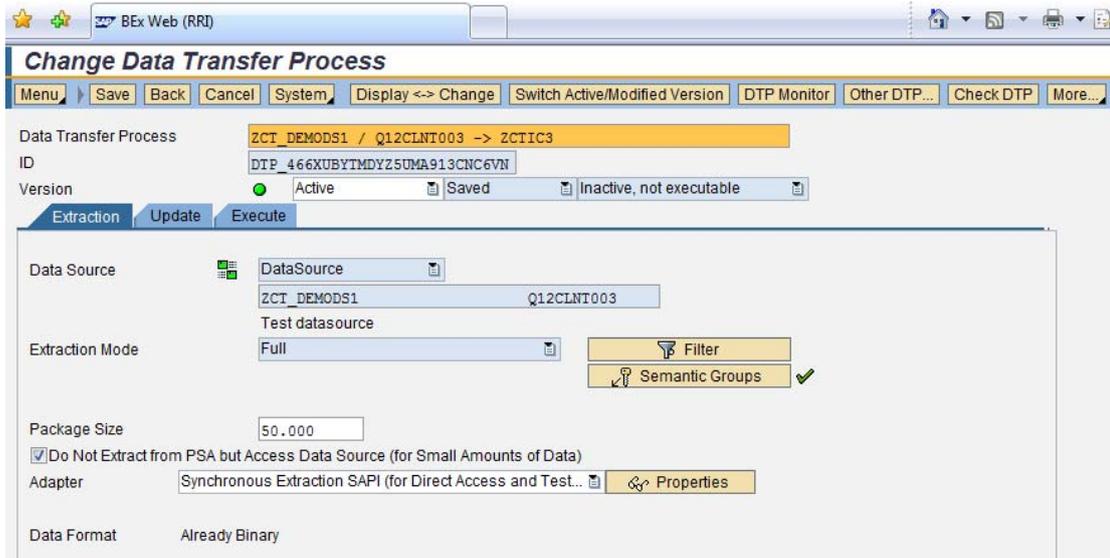
Save View

Personalize Web Application ▶

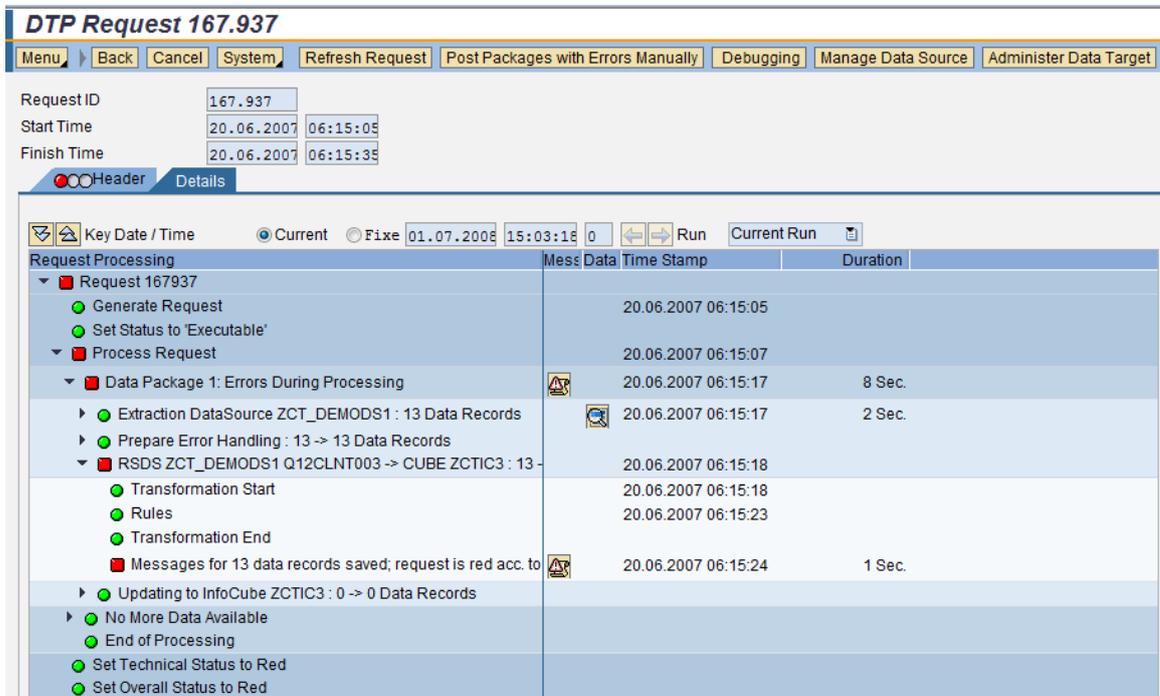
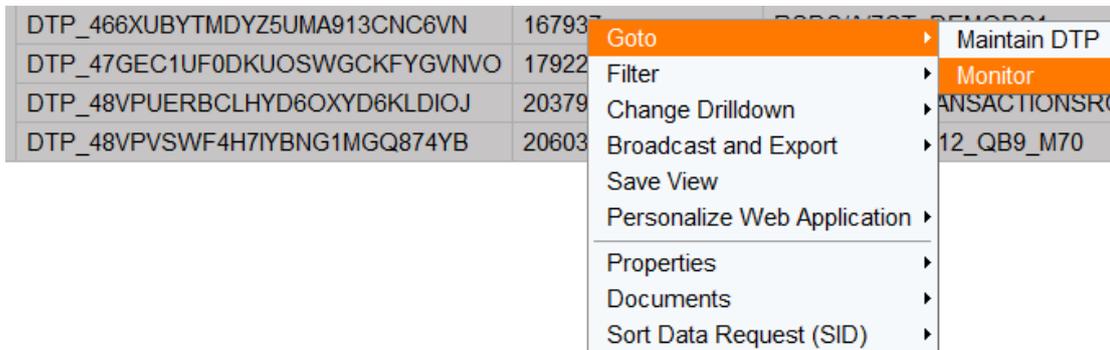
Properties ▶

Documents ▶

Sort Data Transfr Process ▶



3. Check the error request in the monitor by through the context menu



5. Appendix

This section provides the ABAP code for the function module and reports used in the steps that are described in the above sections.

Function Z_ESA_EXTRACT_DATA

```

*#-----
*#*# Local Interface:
*# IMPORTING
*# REFERENCE(I_REQUNR) TYPE SRSC_S_IF_SIMPLE-REQUNR OPTIONAL
*# REFERENCE(I_DSOURCE) TYPE SRSC_S_IF_SIMPLE-DSOURCE OPTIONAL
*# REFERENCE(I_MAXSIZE) TYPE SRSC_S_IF_SIMPLE-MAXSIZE OPTIONAL
*# REFERENCE(I_INITFLAG) TYPE SRSC_S_IF_SIMPLE-INITFLAG DEFAULT
*# SBIWA_C_FLAG_OFF
*# REFERENCE(I_READ_ONLY) TYPE SRSC_S_IF_SIMPLE-READONLY OPTIONAL
*# TABLES
*# I_T_SELECT TYPE SRSC_S_IF_SIMPLE-T_SELECT OPTIONAL
*# I_T_FIELDS TYPE SRSC_S_IF_SIMPLE-T_FIELDS OPTIONAL
*# E_T_DATA STRUCTURE ZSESA OPTIONAL
*# EXCEPTIONS
*# NO_MORE_DATA
*#-----

TYPES: BEGIN OF t_s_data,
        dtp      TYPE rsbkdtprm,
        request  TYPE rsbkrequid,
        datapakid TYPE rsdatapid,
        record   TYPE RSARECORD,
        src      TYPE RSBKSRCNM,
        srctp    TYPE RSBKSRCTP,
        TSTMP_H  TYPE RSTIMESTMP,
        NORECS   TYPE i,
        END OF t_s_data.

DATA:
        g_t_data      TYPE TABLE OF t_s_data,
        g_s_data      TYPE ZSERRORLOG,
        l_s_select    TYPE sbiwa_s_select,
        l_t_dynamic_where TYPE rsaot_t_dynamic_select,

```

```
g_src      TYPE string,  
l_t_select  type SBIWA_T_SELECT.
```

```
*-----
```

```
DATA: tstmp_low TYPE timestamp,  
      tstmp_high TYPE timestamp,  
      tz TYPE ttzz-tzone,  
      dt type d.  
CONSTANTS: tim_low type t value '000000',  
           tim_high type t value '235959'.
```

```
FIELD-SYMBOLS:
```

```
<g_s_data> type t_s_data ,  
<l_s_select> type sbiwa_s_select.
```

```
STATICS:
```

```
S_COUNTER LIKE SY-TABIX.
```

```
IF I_INITFLAG = SBIWA_C_FLAG_ON.
```

```
  EXIT.
```

```
ELSE.
```

```
  loop at i_t_select assigning <l_s_select>.
```

```
    if <l_s_select>-FIELDNM = 'SRCSYS'.
```

```
      <l_s_select>-FIELDNM = 'req~src'.
```

```
      <l_s_select>-SIGN = 'I'.
```

```
      <l_s_select>-OPTION = 'CP'.
```

```
      concatenate '*' <l_s_select>-low '*' into <l_s_select>-low.
```

```
      append <l_s_select> to l_t_select.
```

```
    endif.
```

```
    if <l_s_select>-FIELDNM = 'REQDT'.
```

```
      CONVERT DATE <l_s_select>-low TIME tim_low  
        INTO TIME STAMP tstmp_low TIME ZONE 'UTC+00'.
```

```
      CONVERT DATE <l_s_select>-low TIME tim_high  
        INTO TIME STAMP tstmp_high TIME ZONE 'UTC+00'.
```

```
      <l_s_select>-FIELDNM = 'req~TSTMP_H'.
```

```
<l_s_select>-SIGN = 'I'.
<l_s_select>-OPTION = 'BT'.
<l_s_select>-LOW = tstamp_low.
<l_s_select>-HIGH = tstamp_high.
append <l_s_select> to l_t_select.
endif.
endloop.

l_s_select-FIELDNM = 'log~skipped'.
l_s_select-SIGN = 'I'.
l_s_select-OPTION = 'EQ'.
l_s_select-LOW = 'X'.
append l_s_select to l_t_select.
.
CALL FUNCTION 'RSAN_FILL_DYNAMICAL_SELECT'
EXPORTING
  l_T_SELECT          = l_t_select
  l_WITHOUT_RESTRICTIONS = 'X'
IMPORTING
  E_T_DYNAMIC_SELECT = l_t_dynamic_where
EXCEPTIONS
  INVALID_SELECTION_CRITERIA = 1
.
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 S_COUNTER = 0.
select
  req~DTP
  log~REQUEST
  log~DATAPAKID
  log~RECORD
  req~SRC
  req~SRCTP
```

```
req~TSTMP_H
INTO CORRESPONDING FIELDS OF TABLE g_t_data
from ( RSBKREQUEST as req inner join RSBERRORLOG
      as log on log~REQUEST = req~REQUID )
where (l_t_dynamic_where).
if sy-dbcnt = 0.
  RAISE NO_MORE_DATA.
endif.
SORT g_t_data by request datapakid record.
```

```
DELETE ADJACENT DUPLICATES FROM g_t_data
  COMPARING request datapakid record.
```

```
Loop at g_t_data assigning <g_s_data>.
  g_s_data-DTP      = <g_s_data>-dtp.
  g_s_data-REQ      = <g_s_data>-request.
  g_s_data-DPID     = <g_s_data>-datapakid.
  g_s_data-REC      = <g_s_data>-record.
  g_s_data-SRC      = <g_s_data>-SRC.
  g_src             = <g_s_data>-SRC.
  SHIFT g_src LEFT BY 30 PLACES.
  g_s_data-SRCSYS   = g_src.
  if <g_s_data>-srctp = 'DTASRC'.
    <g_s_data>-srctp = 'RSDS'.
  endif.
  g_s_data-SRCOBJTYP = <g_s_data>-srctp.
  g_s_data-TIMSTMP  = <g_s_data>-TSTMP_H.
  g_s_data-REQDT    = g_s_data-TIMSTMP.
  g_s_data-NORECS   = 1.
  APPEND g_s_data to e_t_data.
endloop.
SORT e_t_data by NORECS DESCENDING .
S_COUNTER = S_COUNTER + 1.
ELSE.
  RAISE NO_MORE_DATA.
ENDIF.
```

```
ENDIF.
ENDFUNCTION.
```

Report Z_ERRSTACK_RRI

```
*&-----*
*& Report Z_ERRSTACK_RRI
*&-----*
PARAMETERS: p_dtp TYPE /BI0/OITCTDTPID,
             p_req TYPE /BI0/OITCTREQSID.
DATA:
      l_dtp type rsbkdtpnm.
if NOT p_dtp is initial.
  l_dtp = p_dtp.
  CALL FUNCTION 'RSBK_DTP_MAINTAIN'
  EXPORTING
    I_DTP          = l_dtp
    I_MODE         = '2'
*      I_TAB          =
*      I_DISPLAY_ONLY = RS_C_FALSE
*      I_R_NAVIGATOR  =
*      I_R_AWB_REQUEST =
*      IMPORTING
*      E_DTP          =
.
endif.
```

Report Z_ERRSTACK_RRI_MON

```
*&-----*
*& Report Z_ERRSTACK_RRI_MON
*&-----*
PARAMETERS: p_req TYPE /BI0/OITCTREQSID.
DATA:      l_rnr TYPE RSBKREQUID.
l_rnr = p_req.
CALL FUNCTION 'RSBM_SHOW_REQUEST'
  EXPORTING
    I_REQUID = l_rnr.
```

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