

Extracting Missing Fields of Data Source Which Are Present In Their Extract Structure



Applies to:

ECC 6.0 and BI 3.x and 7.0 For more information, visit the [Business Intelligence homepage](#).

Summary

Many a times we would have observed that there are a few fields present in the extract structure of the data source but are not available in RSA6 or the data source which is replicated in BI. The paper is about all steps related as to how can we enable a field present in the extract structure of the data source to be visible in RSA3 or fetch the data in BI. (Related SAP Note: 1033847 and 1296703)

Author: Maheshsingh Mony

Company: Capgemini India

Created on: 02 February 2010

Author Bio



Maheshsingh Mony is working with Capgemini India. He has 3+ years of full time experience in implementation of SAP BI projects, Migration, Rollout, and Support Projects. His expertise includes SAP BI, ABAP.

Table of Contents.

Taking an Example.....	3
The Reason for it.....	5
Summary:.....	6
Steps to make the field visible in RSA3 and to populate data into BI.....	7
Program code	8
Activate the data source and map the new field in the transformation and you can load the data till the PSA through the Info package and to the data target via DTP.Related Content	11
Related Content.....	12
Disclaimer and Liability Notice.....	13

Taking an Example.

Here we take an example of a data source 0COMP_CODE_TEXT

No. of Fields in the Extract structure is 7.

Dictionary: Display Structure

Structure: RTEXTSTR1 Active
Short Description: Interface: Generic Transfer of Texts

Attributes | Components | Entry help/check | Currency/quantity fields

Predefined Type 1 / 9

Component	RTy...	Component type	Data Type	Length	Decim...	Short Description
LANGU	<input type="checkbox"/>	LANGU	LANG	1	0	Language Key
KEY1	<input type="checkbox"/>	RTEXTKEY1	CHAR	60	0	Key Field for DataSource for Text
_INCLUDE	<input type="checkbox"/>	RSTIMEINT	DD	0	0	Include: Validity period
DATETO	<input type="checkbox"/>	RSDATETO	DATS	8	0	Valid-to date
DATEFROM	<input type="checkbox"/>	RSDATEFROM	DATS	8	0	Valid-From Date
_INCLUDE	<input type="checkbox"/>	RSTXTSML	DD	0	0	Structure with short, medium and long text
TXTSH	<input type="checkbox"/>	RSTXTSH	CHAR	20	0	Short description
TXTMD	<input type="checkbox"/>	RSTXTMD	CHAR	40	0	Medium description
TXTLG	<input type="checkbox"/>	RSTXTLG	CHAR	60	0	Long description

No. of fields in RSA3 is '2':

Extractor Checker S-API

DataSource: 0COMP_CODE_TEXT
Struktur: RTEXTSTR1

Key (KEY1)	Descript. (TXTMD)
0001	SAP A.G.
0MB1	IS-B Musterbank Deutschl.
AR01	Country Template AR
ARG1	Country Template AR
AT01	Country Template AT
AU01	Country Template AU
BE01	Country Template BE
...	...

Fields present in RSA6 in the source system for the data source 0COMP_CODE_TEXT

DataSource: Customer version Display

Header Data						
DataSource	0COMP_CODE_TEXT			Package	ZBI_OBJ	
Description	Company Code					
Extraction						
ExtractStruct.	ROTEXTSTR1					
Direct Access	1					
Delta Update	<input type="checkbox"/>			DataSource for Reconciliation	<input type="checkbox"/>	
Field Name	Short text	Selection	Hide field	Inversion	Field only	
KEY1	Key Field for DataSource for Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TXTMD	Medium description	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Data source in BI

DataSource	0COMP_CODE_TEXT		CoCode												
Source System	SR5CLNT400 SR5 Client 400														
Version	Active														
Active Version	Executable	= Edited Version													
<div style="display: flex; border-bottom: 1px solid black;"> <div style="margin-right: 10px;">General Info.</div> <div style="margin-right: 10px; border-bottom: 1px solid black;">Extraction</div> <div style="border-bottom: 1px solid black;">Fields</div> </div>															
Field Attributes															
Pos.	Field	Descript.	D...	T...	Data type	Lngh	Decim...	Extern...	L...	K...	Conv...	Format	SS C...	cur/unit	S... Sel. Opts
2	KEY1	Key field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHAR	60	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Internat			X 0
6	TXTMD	Medium desc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHAR	40	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Internat			0

The Reason for it

The value for the field SELECTION of the table ROOSFIELD for the fields which are not visible in the Data source or RSA3 is maintained as 'A'.

Table: ROOSFIELD
 Displayed Fields: 11 of 11 Fixed Columns: 3 List Width 0250

	OLTPSOURCE	OBJWERS	FIELD	SELECTION	UNIFIED
<input type="checkbox"/>	@COMP_CODE_TEXT	A	DATEFROM	A	
<input type="checkbox"/>	@COMP_CODE_TEXT	A	DATETO	A	
<input type="checkbox"/>	@COMP_CODE_TEXT	A	KEY1	X	
<input type="checkbox"/>	@COMP_CODE_TEXT	A	LANGU	A	
<input type="checkbox"/>	@COMP_CODE_TEXT	A	TXTLG	A	
<input type="checkbox"/>	@COMP_CODE_TEXT	A	TXTMD	A	
<input type="checkbox"/>	@COMP_CODE_TEXT	A	TXTSH	A	

If a request for a Data Source is scheduled in the Business Information Warehouse, selection conditions are specified across certain fields. The property that determines whether a selection in BW using a field is possible or required is established in the Data Source in the Source System.

In addition, the visibility of the field in BW can be set.

Definition of the individual values:

'A': Field is hidden in OLTP and BW; property cannot be changed by the customer.

'M': The Data Source requires a selection across this field before it is able to extract data (Required field for the generation of a request); property cannot be changed by the customer

'X': The Data Source can select across this field. The customer can change selections and visibility (the field is currently visible and selectable, compare with 'P', '3')

'1': Pure selection field for the Data Source. The customer can change the selection, but not the visibility (the field is currently selectable, compare with '2').

'2': Pure selection field for the Data Source. The customer can change the selection, but not the visibility (field is currently no selectable, compare with '1').

'3': The Data Source can select across this field. The customer can change selection and visibility (the field is currently not visible not selectable, compare with 'P', 'X')

'4': The Data Source cannot select across this field. The customer can change visibility (the field is currently not visible, compare with '')

Summary:

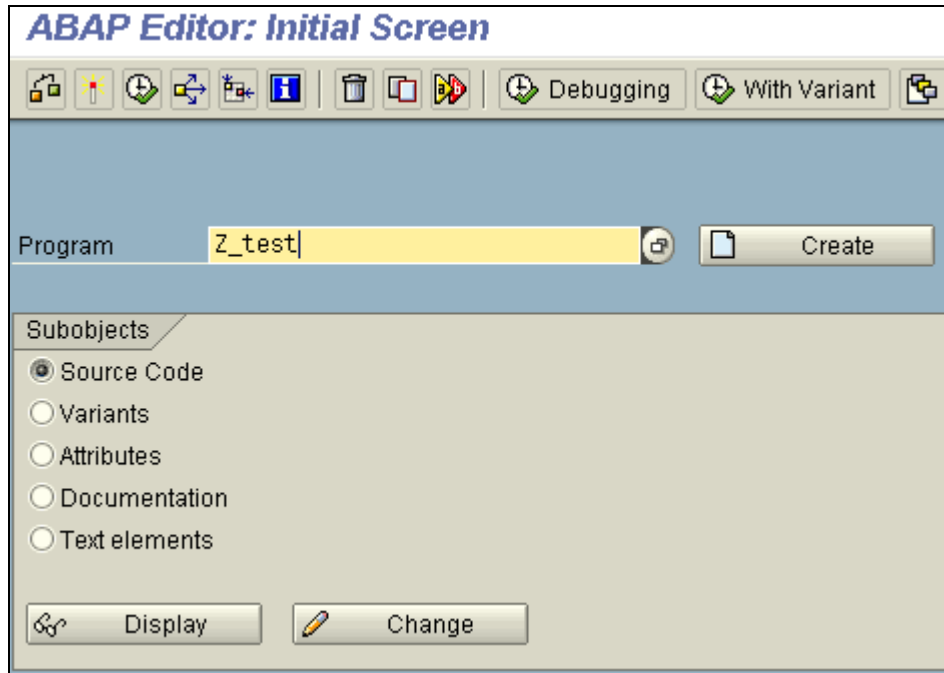
Filed Attribute	Description
A	Field in OLTP and BW Hidden by SAP
M	Selection Required, Visible
	No Selection Possible, Visibility Set
P	Selection Adjustable, Visibility Set.
X	Selection Adjustable, Visibility Set
1	Pure Selection Field, Selection Set
2	Pure Selection Field, Selection Set
3	Selection Adjustable, Visibility Adjustable
4	No Selection Possible, Visibility Adjustable

Steps to make the field visible in RSA3 and to populate data into BI.

Let's consider the field DATETO (Valid-to date) to be displayed in RSA3 and in the Data source so that the data can be extracted into BI.

STEPS to be followed:

Create a test program through the transaction SE38.



Program code

Write the below code in the program. Activate it and then execute.

```

*&-----*
*& Report  Z_TEST
*&
*&-----*
*&
*&-----*
*&
*&-----*

REPORT  Z_TEST.

tables: ROOSFIELD.

SELECT SINGLE *
FROM ROOSFIELD
WHERE DLTPSOURCE = '0COMP_CODE_TEXT' AND
      OBJVERS = 'A' AND
      FIELD = 'DATETO'.

IF SY-SUBRC = 0.

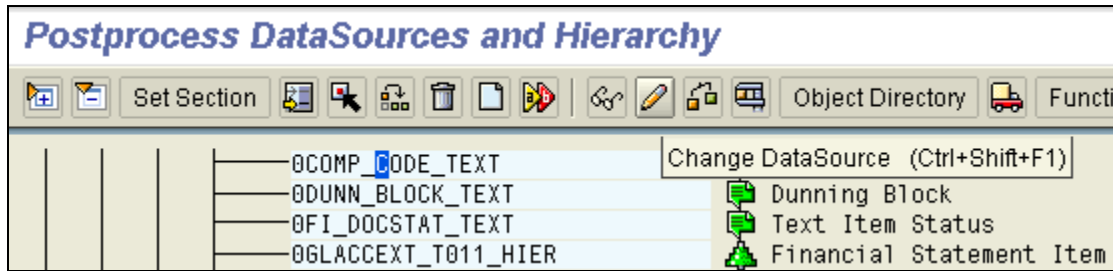
ROOSFIELD-SELECTION = 'P'.
MODIFY ROOSFIELD.

ENDIF.
    
```

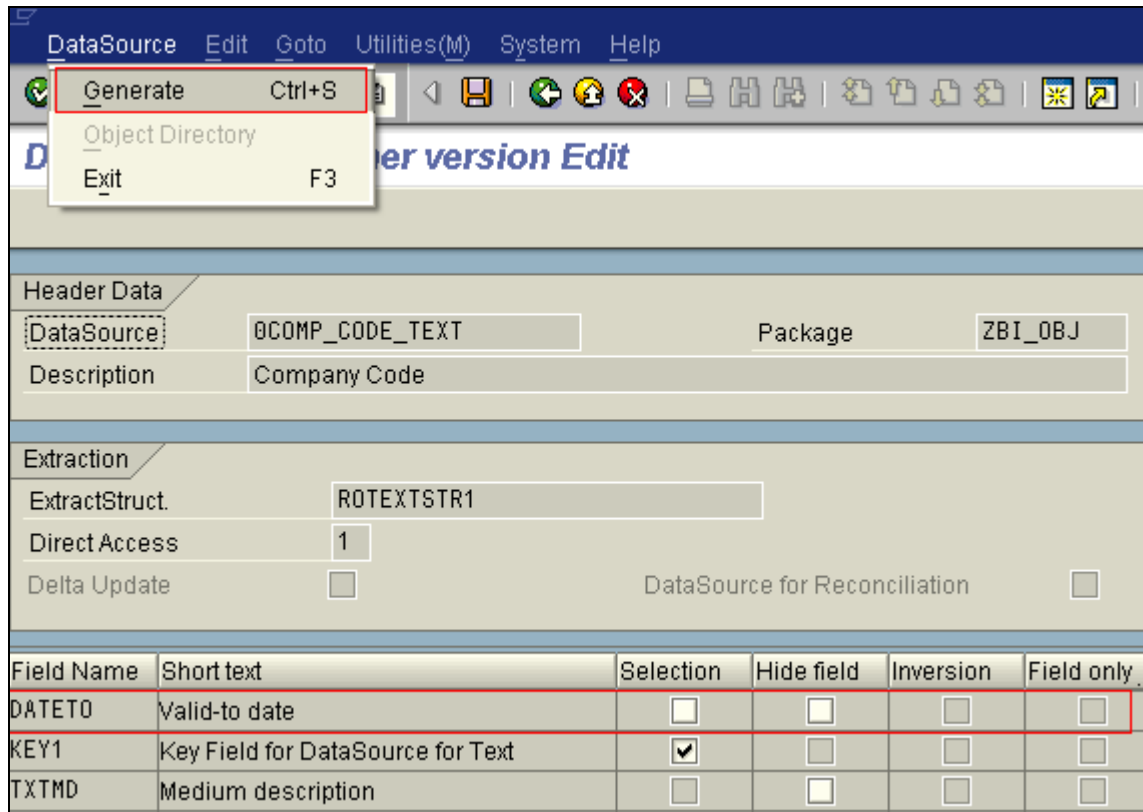
After execution you would see that the value of the filed selection has been changed from 'A' to 'P'.

DLTPSOURCE	OBJVERS	FIELD	SELECTION	UNIFIELDNM
<input type="checkbox"/> 0COMP_CODE_TEXT	A	DATEFROM	A	
<input type="checkbox"/> 0COMP_CODE_TEXT	A	DATETO	P	
<input type="checkbox"/> 0COMP_CODE_TEXT	A	KEY1	X	
<input type="checkbox"/> 0COMP_CODE_TEXT	A	LANGU	A	
<input type="checkbox"/> 0COMP_CODE_TEXT	A	TXTLG	A	
<input type="checkbox"/> 0COMP_CODE_TEXT	A	TXTMD		
<input type="checkbox"/> 0COMP_CODE_TEXT	A	TXTSH	A	

Go to RSA6 and find the data source 0COMP_CODE_TEXT and select Change.



Put a check in the checkbox Selection if you want it to be a part of the selection in RSA3 and in the Info package and Generate the data source.



Go to RSA3 and you will find the new filed DATETO in your output.

Extractor Checker S-API

DataSource: 0COMP_CODE_TEXT
Struktur: ROTEXTSTR1

To(DATETO)	Key(KEY1)	Descript.(TXTMD)
	0001	SAP A.G.
	0MB1	IS-B Musterbank Deutschl.
	AR01	Country Template AR
	ARG1	Country Template AR
	AT01	Country Template AT
	AU01	Country Template AU
	BE01	Country Template BE
	BR01	Country Template BR
	CA01	Country Template CA
	CH01	Country Template CH

PS. Note: If there is data it would automatically get populated in this case there isn't any data in the new filed

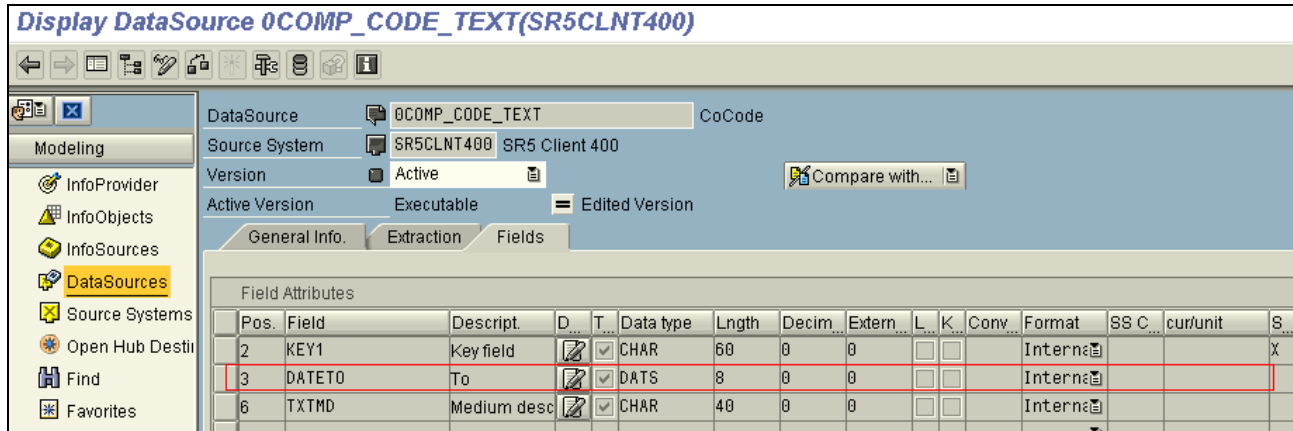
Go to the BI System find the data source and Replicate it.

Data Warehousing Workbench: Modeling

The screenshot shows the 'DataSources for' view in the SAP Data Warehousing Workbench. A list of data sources is displayed with columns for 'Tech. Name', 'M...', 'Execute Function', 'Display Tree', and 'Ob...'. The data source '0COMP_CODE_TEXT' is highlighted, and a context menu is open over it, showing options like 'Change', 'Display', 'Copy...', 'Delete', 'Manage', 'Display DataSource in Source System', 'Replicate Metadata', 'Create Transformation...', 'Create Data Transfer Process...', and 'Create InfoPackage...'.

Tech. Name	M...	Execute Function	Display Tree	Ob...
0GL_ACCOUNT_TE...	≡	Change		
0COMP_CODE_TEXT	≡	Change		
0COMP_CODE_ATTR		Display		
ZFI_ZROY_AGREE...		Change		
ZFI_ZROY_INGRED...		Copy...		
0SEGMENT_TEXT		Delete		
0FI_DOCSTAT_TEXT		Manage		
ZFI_ZROY_A935		Display DataSource in Source System		
ZFI_ZROY_A936		Replicate Metadata		
ZPC_COSTING_BOM		Create Transformation...		
ZFI_ZROY_IP001		Create Data Transfer Process...		
ZFI_ZROY_IPSIITM		Create InfoPackage...		
ZBI_FIN_SUTAX				
LO				
LO-IO				

After replication the new field will appear in the data source



Activate the data source and map the new field in the transformation and you can load the data till the PSA through the Info package and to the data target via DTP.

Related Content

[Reference 1](#)

<http://forums.sdn.sap.com/thread.jspx?messageID=8416627#8416627>

[Reference 2](#)

<http://forums.sdn.sap.com/thread.jspx?messageID=266266>

[Reference 3](#)

<http://forums.sdn.sap.com/thread.jspx?messageID=8218144#8218144>

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

Disclaimer and Liability Notice

This document may discuss sample coding or other information that does not include SAP official interfaces and therefore is not supported by SAP. Changes made based on this information are not supported and can be overwritten during an upgrade.

SAP will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

SAP offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by SAP. You agree that you will not hold, or seek to hold, SAP responsible or liable with respect to the content of this document.