

Step By Step Procedure to Enhance Standard BI/BW Extractor Using BADI



Applies to:

SAP BW 3.x and SAP BI 7.x Source Systems (e.g.: ECC). For more information, visit the [EDW homepage](#)

Summary

This document gives the Step by step procedure to enhance Standard Business content extractors (both master data and transactional data) using "RSU5_SAPI_BADI".

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Author Bio

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Table of Contents

Introduction	3
Scenario.....	3
Procedure	3
Enhancing Extract Structure	3
Filling Data to the Enhanced field	5
Implementation of created BADI	7
Testing through RSA3.....	7
Related Content.....	8
Disclaimer and Liability Notice.....	9

Introduction

Generally SAP user exit RSAP001 is used to add any additional fields to the Standard BW Extractors which includes both Master Data and Transaction Data extractors.

But as per SAP's recommendation BADI's are more efficient way to enhance the standard extractors than using the exit RSAP001

Enhancing a Standard DataSource using BADI has the following advantage over using the exit RSAP001:

- BADI can have multiple implementations (only if Multiple use flag is set for the Badi) so several developers can work simultaneously on different implementations and different logics.

RSU5_SAPI_BADI is used to enhance the standard BI DataSources

Scenario

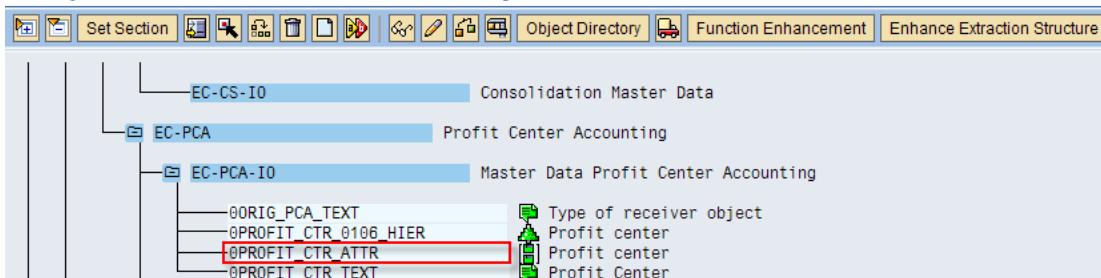
In this document the Standard Master Data Source 0PROFIT_CTR_ATTR is appended with the field BUKRS – Company Code. The data for this field is filled from CEPC - BUKRS

Procedure

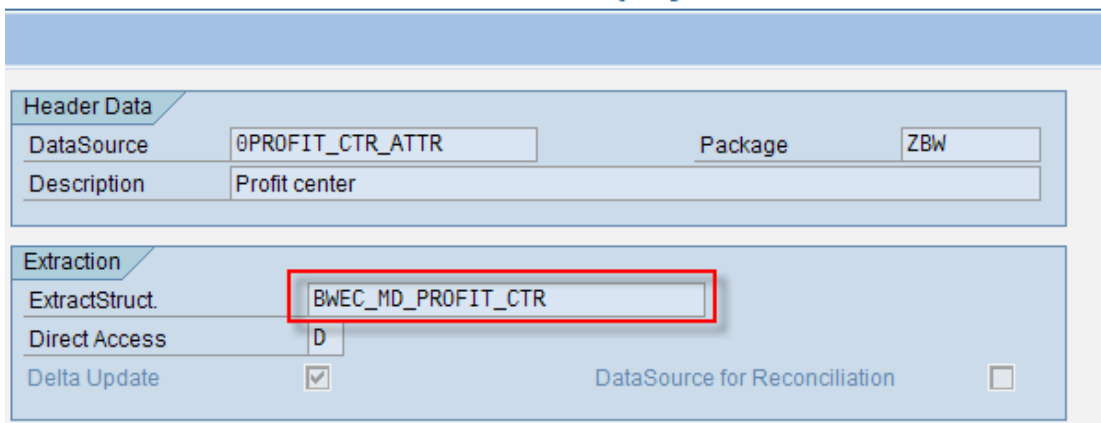
Enhancing Extract Structure

1. Go to T-Code RSA6 (Post Process DataSource and Hierarchy) and select the DataSource 0PROFIT_CTR_ATTR

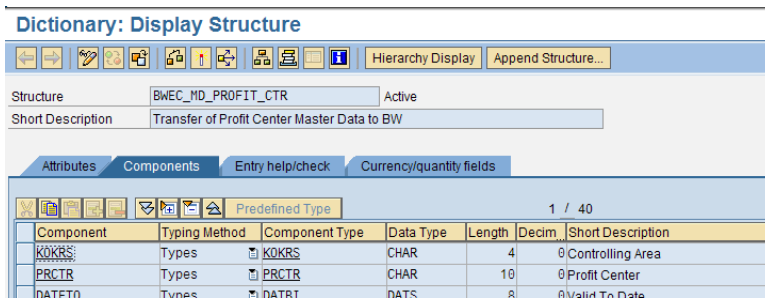
Postprocess DataSources and Hierarchy



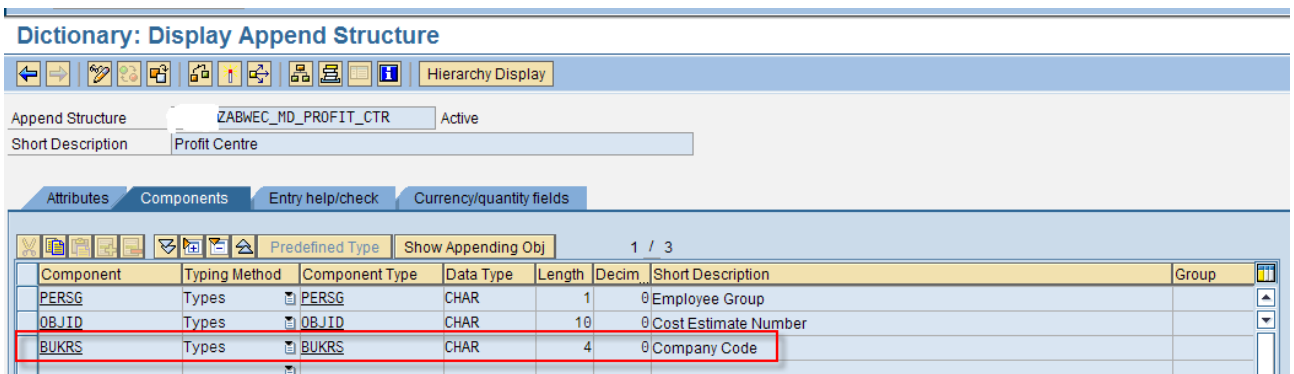
DataSource: Customer version Display



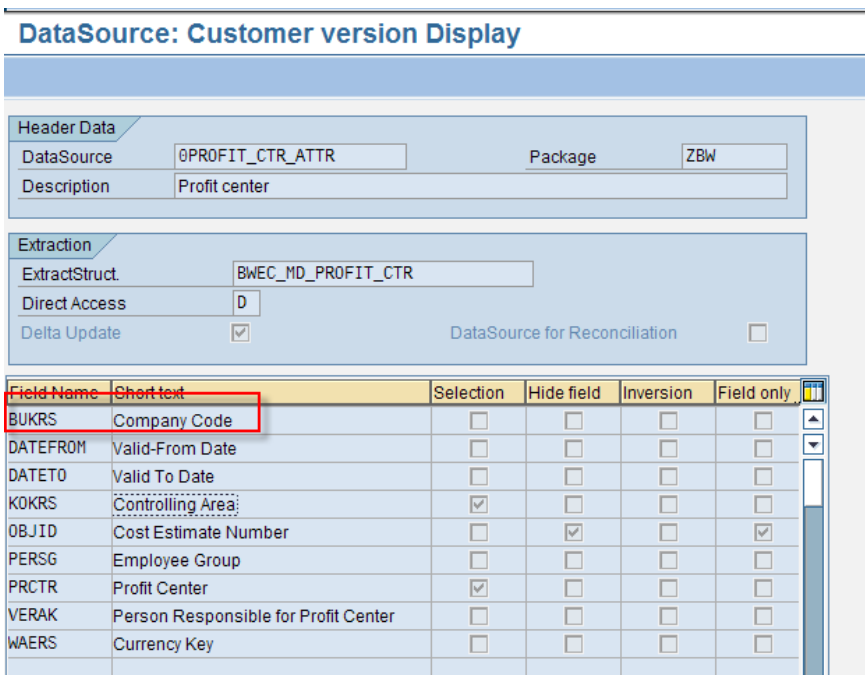
- Go to the Extract Structure “BWEC_MD_PROFIT_CTR” of the DataSource



- Now click on “Append Structure” and create append structure and then add the required field BUKRS (if there is an append structure already available, you can use the same append structure or can create a new append structure. Here I have added the field to the already available append structure) to the append structure and activate the Extract Structure “BWEC_MD_PROFIT_CTR”.

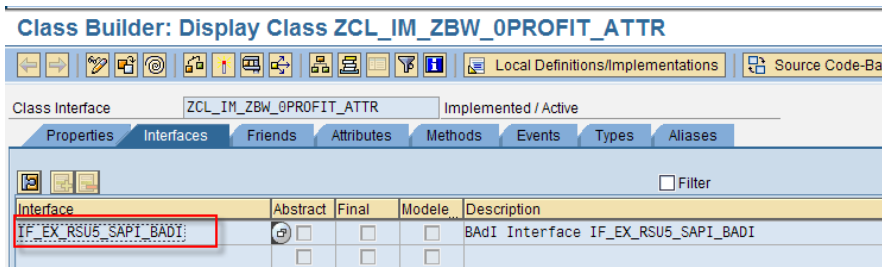


- Now activate the DataSource and make sure the newly added field is available in the DataSource.

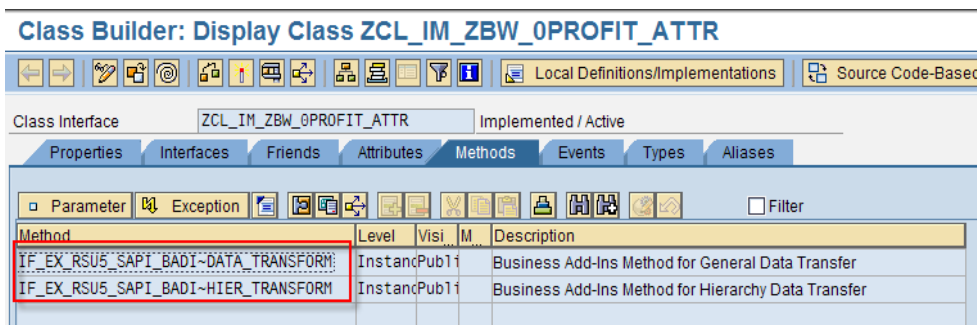


Filling Data to the Enhanced field

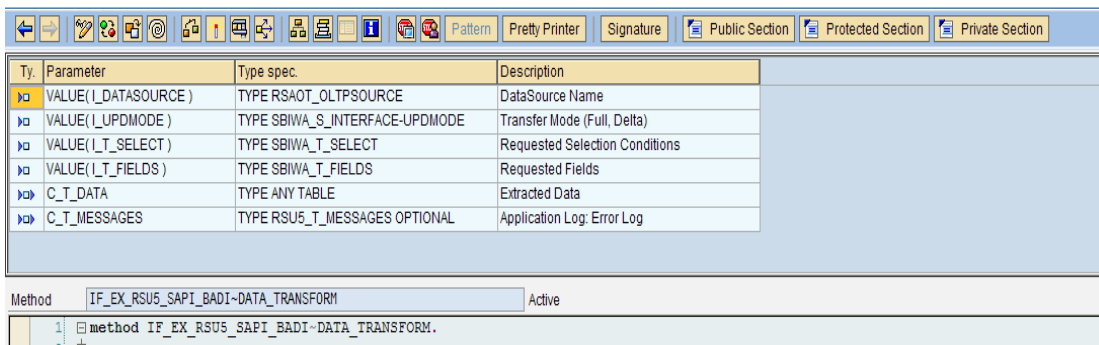
1. Go to SE24 and create a class "ZCL_IM_ZBW_0PROFIT_ATTR" and in the Interfaces tab of the class enter "IF_EX_RSU5_SAPI_BADI".



2. Now 2 methods "DATA_TRANSFORM" and "HIER_TRANSFORM" will be available in the Method tab.



3. Write the code in the method "IF_EX_RSU5_SAPI_BADI~DATA_TRANSFORM" as below to fill the data to the Enhanced field and activate the class.



Code:

```

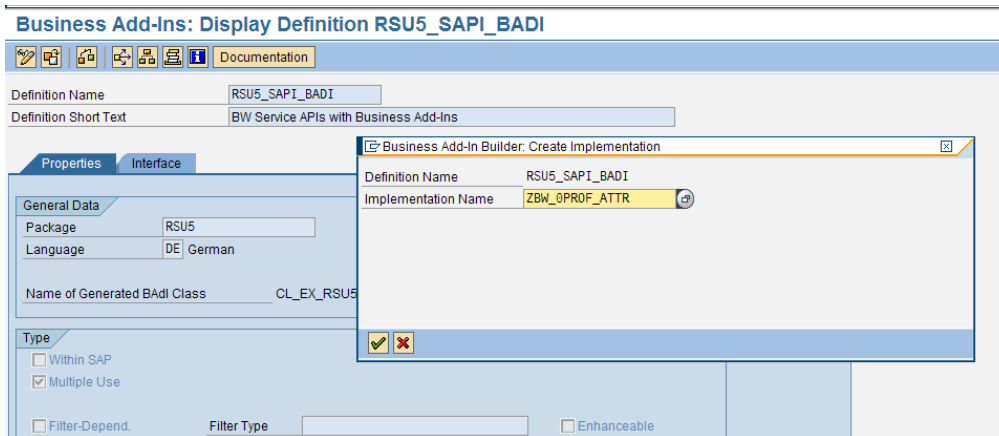
method IF_EX_RSU5_SAPI_BADI~DATA_TRANSFORM.
  CHECK i_datasource = '0PROFIT_CTR_ATTR'.
  DATA: lt_data TYPE TABLE OF BWEC_MD_PROFIT_CTR.
  FIELD-SYMBOLS: <ls_data> TYPE BWEC_MD_PROFIT_CTR.
* -----*
* Internal table for CEPC_BUKRS
* -----*
TYPES:
  BEGIN OF ty_profitctr,
    PRCTR          TYPE BWEC_MD_PROFIT_CTR-PRCTR,
    BUKRS          TYPE BWEC_MD_PROFIT_CTR-BUKRS,
  END OF ty_profitctr.

```

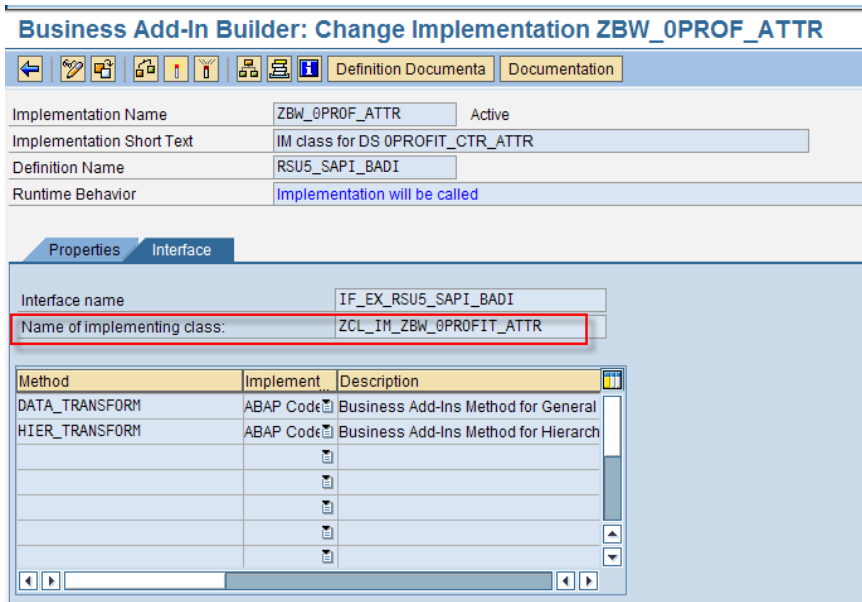
```
DATA:
    lt_profitctr type standard table of ty_profitctr,
    ls_profitctr type ty_profitctr.
lt_data[] = c_t_data[].
*-----*
* Read data into internal memory
*-----*
select prctr
       bukrs
from   cepc_bukrs
into   table lt_profitctr
for    all entries in lt_data
where  prctr eq lt_data-prctr.
LOOP AT lt_data ASSIGNING <ls_data>.
    read table lt_profitctr into ls_profitctr
        with key prctr = <ls_data>-PRCTR .
    if sy-subrc eq 0.
        <ls_data>-BUKRS = ls_profitctr-BUKRS.
        MODIFY lt_data FROM <ls_data>.
    endif.
ENDLOOP.
REFRESH c_t_data.
c_t_data[] = lt_data[].
endmethod.
```

Implementation of created BADI

1. Go to BADI Definition "RSU5_SAPI_BADI" using Tcode SE18 and create implementation "ZBW_0PROF_ATTR".



2. Go to the Interface tab and enter the created class "ZCL_IM_ZBW_0PROFIT_ATTR" in the Implementing class name field and activate



Testing through RSA3

- Go to RSA3 and execute the DataSource "0PROFIT_CTR_ATTR" and check the extracted data to see the data to the enhanced field is filled.

Result of Extraction of DataSource 0PROFIT_CTR_ATTR

COA#	Profit Center	Valid To	Valid From	Respons	Croy	CoCode	User Resp.	Created on	Area	Lock in...	Rg	Na...	Name 2	Name 3	Name 4	C...	District	Street	PC
1001	10000000	31.12.9999	01.01.1950	TBA		1000		05.09.2006	1001160000										
1001	10000701	31.12.9999	01.01.1950	TBA		1000		17.07.2006	1001131000										
1001	10001101	31.12.9999	01.01.1950	TBA		1000		17.07.2006	1001160000										
1001	10001201	31.12.9999	01.01.1950	TBA		1000		17.07.2006	1001160000										
1001	10001301	31.12.9999	01.01.1950	TBA		1000		17.07.2006	1001160000										

Related Content

[Note 691154 - SAPI with BADI: User exits in SAPI with BADI interfaces](#)

[Enhancing DataSources](#)

For more information, visit the [EDW homepage](#)

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