# Enhancing LO DataSource - Step by Step

### **Applies to:**

SAP BI, NW2004s Business Intelligence.

### Summary

This article explains step by step procedure to enhance LO DataSource. It is explained by enhancing standard DataSource 0Customer\_attr (Customer) by adding a couple of Z fields. Though it explains steps for master data DataSource enhancement same can be applied for transaction data DataSources as well. I coupled the process with screen shots to make it more users friendly.

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#### **Author Bio**

**Vikash Agrawal** is a Certified SAP BI Consultant with **Wipro Technologies**. He has extensive cross functional experience and has been with end to end SAP implementations, upgrades, and BI - Portal Integration projects across manufacturing domain. He has also worked in the area of distribution of finished goods as well as remodeling of Distribution Supply Chain.

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# **Overview**

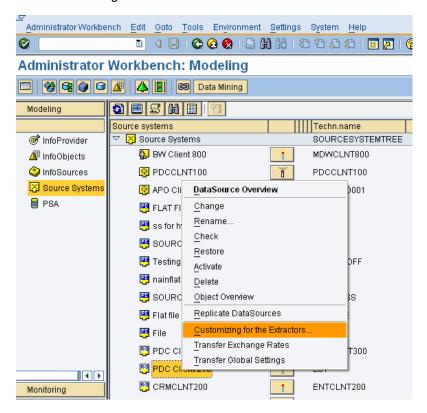
Purpose of this exercise is to enhance LO DataSource, Customer\_Attr one to be specific. I needed to add following field to Customer\_Attr DataSource. One need to start from recognizing the fields / components type and then look for the table from where data could be picked up to fill up these fields.

No	Component	Component Type	Description (NOT TO USE ANY WHERE)	
1	Zz1payer	KUNN2	Payer	
2	Zz1Pcc_area	KKBER	Payer's Credit Control Area	
3	Zz1Pind_cd2	BRAN2	Payer's Industry Code2	
4	ZZ1pcustgrp	KDGRP	Payer's Customer Group	

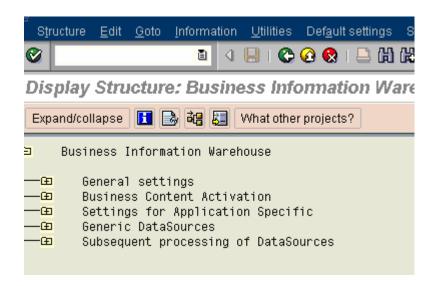
## **Appending the Structure**

DataSources reside in the source system so If I need to customize DataSource, I need to go to source system, one can directly login to Source System ( R/3 in our case) or From BW also can remotely login to Source System.

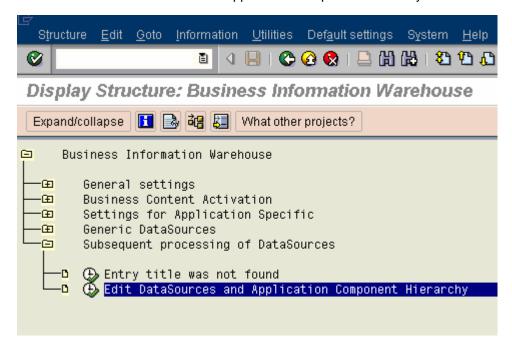
- · Logon to BW
  - Go to Administrator Workbench (RSA1).
  - Go to Source systems.
  - Choose R/3 Source System (where your DataSource resides) Right Click & go to "Customizing for Extractors".



It shall take you to Source System (R/3)



Choose "Edit DataSources and Application Component Hierarchy"

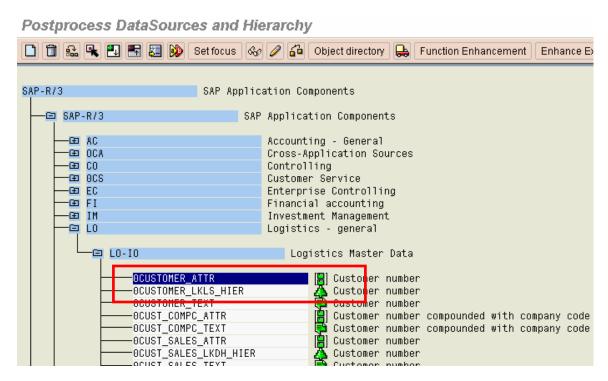


 Go to "OCUSTOMER\_ATTR" Customer Number DataSource ( or whatever DataSource you decide to customize)

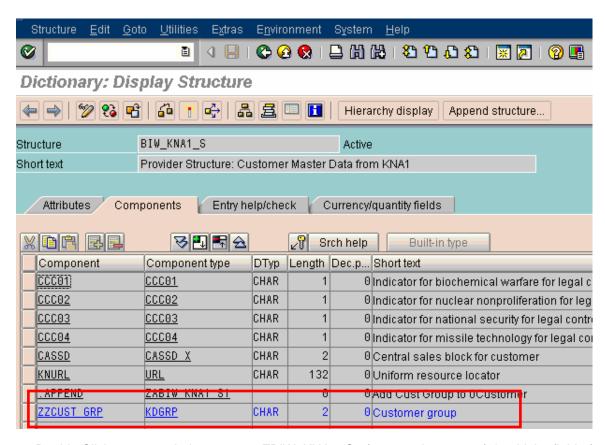
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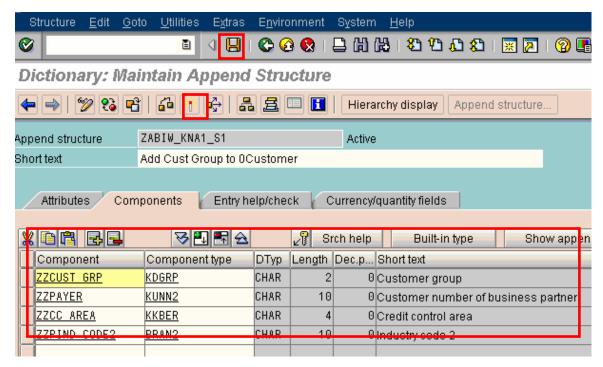
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- Click on DataSource
- · Scroll down to reach the appended structure



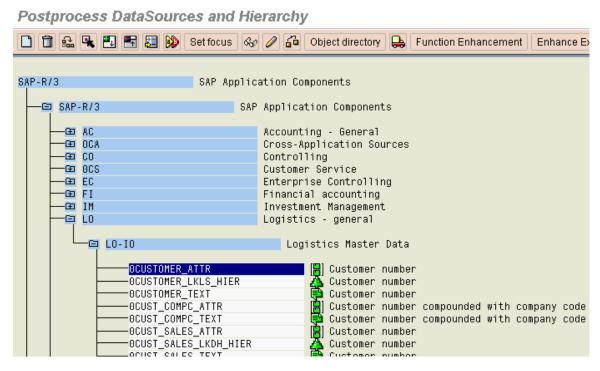
Double Click on appended structure – ZBIW\_KNA1\_S1 (or your chosen one) & add the fields (which
you wish to add to DataSource)



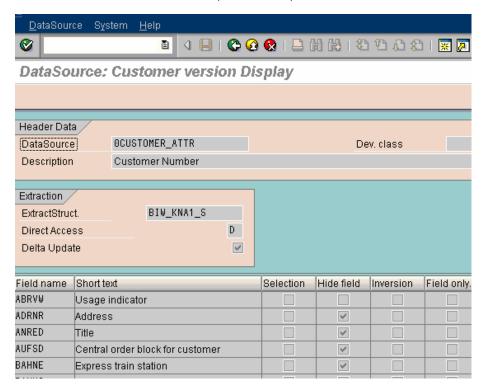
Check, save & activate - It will append this to Extract Structure of DataSource.

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#### Go Back

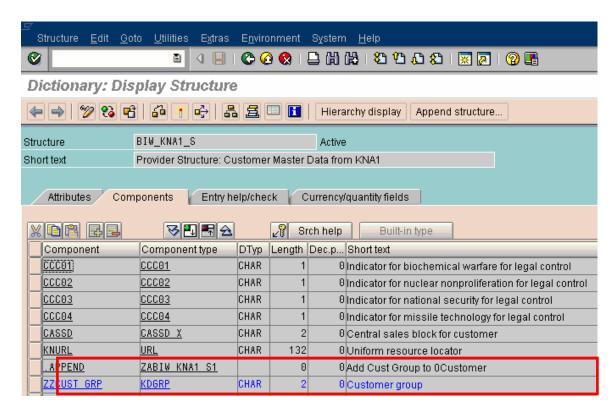


Click on 0CUSTOMER\_ATTR (DataSource)



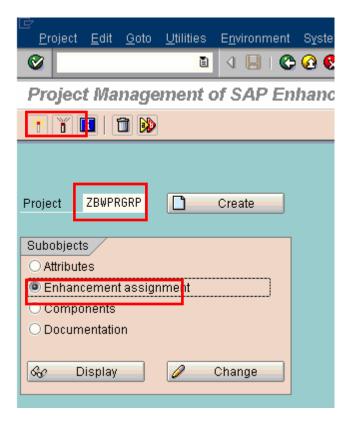
 Now Click on Extract Structure – BIW\_KNA1\_S (in my case), check out the appended field below append structure.

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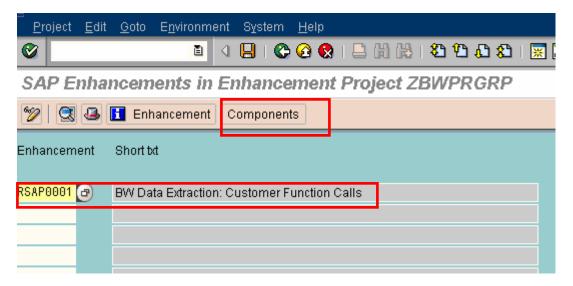


### Filling up the Appended Structure

- Post appending the structure, we need to fill this Append with data For this
  - LOGON to Source System (R/3)
  - Go to T Code CMOD
  - Choose the project Which you are using for Master Data Enhancement. Project "ZSDBWNEW" in my case. ( you need to create project in case you are doing enhancement on this BW system for the first time)
  - Click on Enhancement Assignments
  - Click on Change

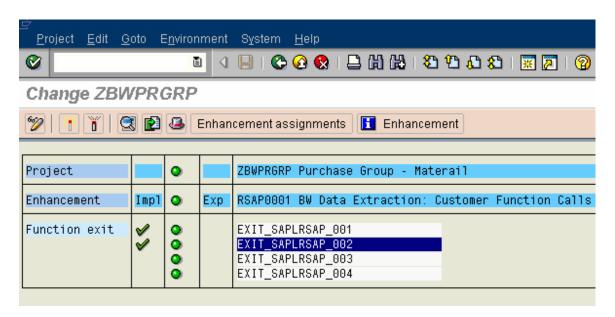


 Press Continue – In case it prompts for some confirmation like "Enhancement project already active" etc.

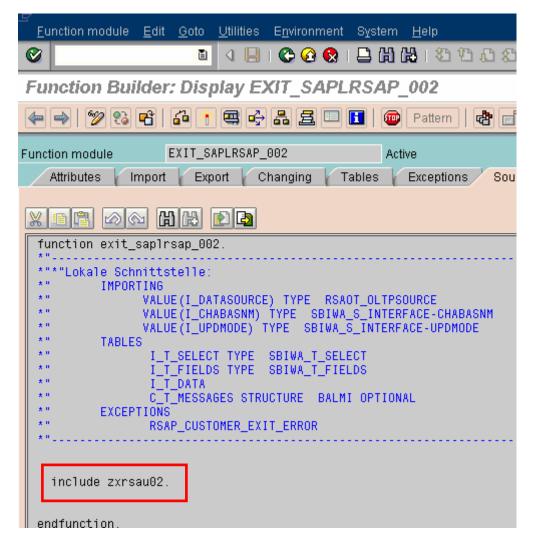


- Choose the following -
  - Enhancement RSAP0001
  - o Click on Components.
- · It will take you to -

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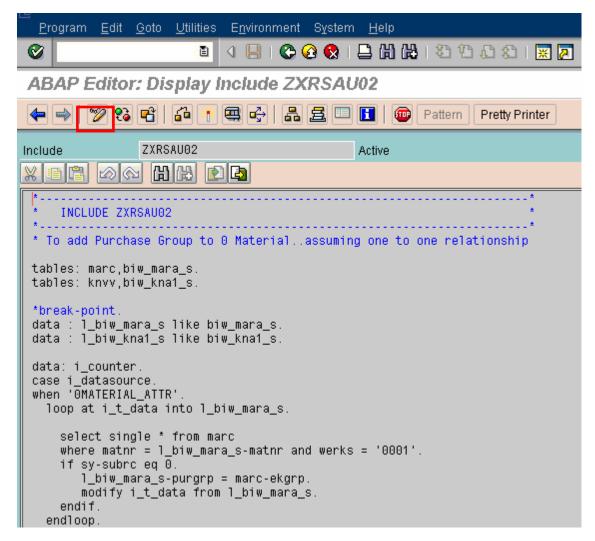
Choose"EXIT\_SAPLRSAP\_002" & Click on this.



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- We need to write ABAP Code to fill up Appended Fields in "OCustomer\_Attr" through the Include mentioned here i.e. include zxrsau02.
- Double Clicking on this will take to ABAP Editor to put in the code.



- · Go to Change Mode.
- This Code is to be inserted before "endcase" of already written code.
- Make Sure Tables KNVV, BIW\_KNVV\_S, KNKK, KNA1, KNVP (these are table from which I need to extract values of appended fields) are declared at the very start of the code.

#### Wrtie ABAP Code

#### << ABAP CODE>>

```
DATA: l_biw_knvv_s LIKE biw_knal_s.

DATA: zzlpayer LIKE knvp-kunn2, zzlpcc_area LIKE knkk-kkber,
zzlpind_cd2 LIKE knal-bran2,zzlpterm LIKE knvv-zterm,
zzlpcustgrp LIKE knvv-kdgrp.
```

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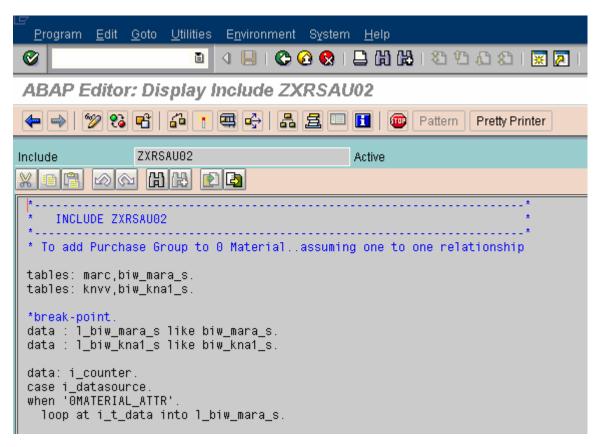
#### <<From here Code is to be added>>

```
when 'OCUSTOMER_ATTR'.
clear i_counter.
loop at i_t_data into l_biw_kna1_s.
* Selection of Payer against "Sold to" of Customer
select * from knvp
where kunnr = l_biw_kna1_s-kunnr
and
       VKORG = l_biw_knal_s-vkorg
        VTWEG = l_biw_ kna1_s-vtweg
and
        SPART = l_biw_knal_s-spart
and
and parvw = 'RG' .
if sy-subrc eq 0.
l_biw_kna1_s-zz1payer = knvp-kunn2.
Else
 l_biw_kna1_s-zz1payer = l_biw_kna1_s-kunnr.
Endif
<<* If Payer is found then pick up Payer's credit control area>>
select * from knkk
up to 1 rows
where kunnr = l_biw_kna1_s-zz1payer.
endselect.
if sy-subrc eq 0.
l_biw_knal_s-zzlpcc_area = knkk-kkber.
endif.
<<* If Payer is found then pick up Payer's Industry Code2>>
select * from knal
up to 1 rows
where kunnr = l_biw_knal_s-zzlpayer.
endselect.
if sy-subrc eq 0.
l_biw_kna1_s-ZZ1pind_cd2 = kna1-bran2.
```

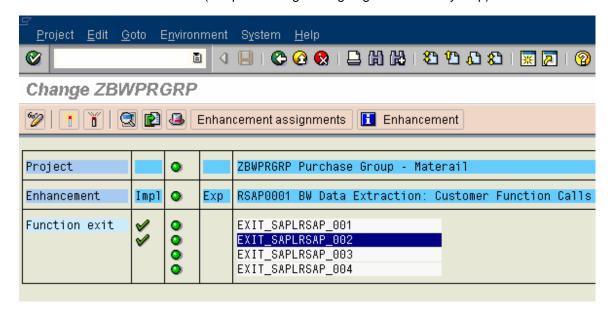
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```
endif.
<<* If Payer is found then pick up Terms of Payment, Payer's Customer
Group>>
select * from knvv
where kunnr = l_biw_knal_s-zzlpayer
        VKORG = l_biw_kna1_s-vkorg
and
        VTWEG = l_biw_kna1_s-vtweg
and
        SPART = l_biw_knal_s-spart.
and
if sy-subrc eq 0.
l_biw_kna1_s-zz1pterm = knvv-zterm.
l_biw_kna1_s-zz1pcustgrp = knvv-kdgrp.
endif.
modify i_t_data from l_biw_knvv_s.
endloop.
```

- Do the "Check" before Save, if no errors are found the Save & Activate".
- · Go Back.



- Do the Check again & if no errors then Activate.
- Go Back and then Activate. (Keep activating while going back on every step).



Come Out.

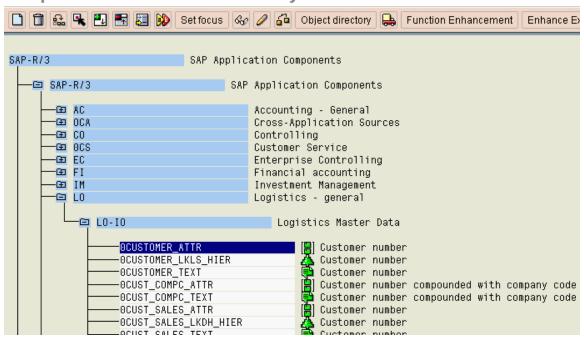
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### Regenerate & Check the Customized Objects

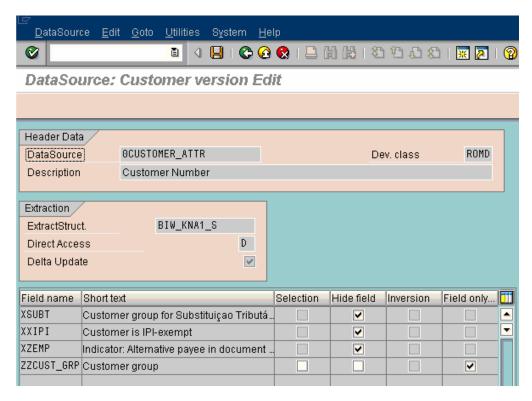
- Now Final Step We need to regenerate the DataSource & make sure Newly Added Attributes (Starting with ZZ) are not HIDE.
- Logon to BW System Go to Administrator Workbench (RSA1) Go to Source systems Choose Source System (R/3 in our case) - Right Click & go to "Customizing for Extractors".
- Choose "Edit DataSources and Application Component Hierarchy"
- Go to "OCUSTOMER\_ATTR" Customer Number DataSource & Click on CHANGE. Scroll Down.

#### Postprocess DataSources and Hierarchy

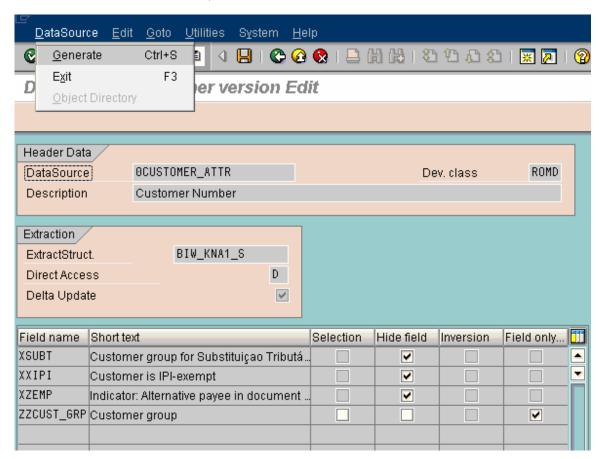


- Keep clicking on Right Sign if it prompts for any confirmation.
- Scroll down & Go to Fields starting with ZZ & make sure these are not HIDE (remove the sign from HIDE check box).

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· Click on DataSource & Generate, as shown below



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- Go back
- Next Steps are Checking Extractors & Loading data.

#### **Related Content**

- SAP Network Blog: Extract Checker <a href="https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/3094">https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/3094</a>
- SAP Network Blog: LOGISTIC COCKPIT WHEN YOU NEED MORE First option: enhance it! https://weblogs.sdn.sap.com/pub/wlg/1262
- SAP Network Blog: How to retain deltas when you change LO extractor in Production system https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/3785
- SAP Network Blog: Custom fields and BW extractors: Making a mixed marriage work! <a href="https://www.sdn.sap.com/iri/sdn/weblogs?blog=/pub/wlg/1591">https://www.sdn.sap.com/iri/sdn/weblogs?blog=/pub/wlg/1591</a>

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