LO Extraction – Part 7 Enhancing LO Data Source

Applies to:
SAP BI, Business Intelligence, NW2004s. For more information, visit the EDW homepage.

Summary
This part of the blog explains about enhancing the LO datasource. This topic is included to this series.

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Author Bio
P Renjith Kumar is presently working in SAP Labs India Pvt Ltd and specializes in Extraction and Modeling areas of BI. Basically as an ABAP consultant, he has extensive cross functional experience and has been with end to end SAP ERP and BI implementation projects across manufacturing domain.
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Prerequisite
Kindly read the previous 6 part of the article, it will make you to feel comfortable to read this article.

Introduction
The SAP enhancement RSAP0001 is available if you want to fill fields that you have added to the extraction structure of a Data Source as an append structure. This enhancement is made up of the following enhancement components:

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Scenario:
You have to append the standard business content data source 2LIS_11_VAITM with a field MTART (Material Type) from MARA table.
**Communication structure check**

First check if the field that you need to enhance is available in the communication structure. If it is there

1. Deactivate the datasource in LBWE & clear the delta queue (RSA7)
2. Drag the fields from the pool.
3. Activate the datasource.

This scenario requires no coding to populate the enhanced filed.

Every extract structure is related to one or more communication structures (and for every communication structure involved an include)

So if we can find the field MTART in any of this communication structure then we can drag the field to the extract structure, But in our case the field MTART is not in MCVBAK and MCVBAP. So now the option is to append the extract structure and write a code to populate that. In simple terms To do this, go to RSA6, choose your datasource, double-click on it and then on the extract structure: you will see an SE16 screen, create an append, insert your ZZ* fields, save.
**Steps: Source System Side**

RSA2 -> Give the data source name -> Click Display, Note Extract structure Name

**DataSource Repository**

The extract structure for 2LIS_11_VAHDR is MC110VAITM

SE11 -> MC110VAITM -> Display

You can see many fields, In this You have to add MTART Filed from MARA, So click Append Structure Button in application tool bar .

**Dictionary: Display Structure**

Now Name of append will come automatically, Just Enter
The screen will be like this initially

Now give the Field you need to Enhance and enter , Save , Check , Activate

Now come back and activate, See the last row you will have got the appended field
Now we have to write Code

SE37 ➔ EXIT_SAPLRSAP_001 ➔ Display

**Function Builder: Initial Screen**

**Function Module**  EXIT_SAPLRSAP_001

Press Display. Now double click the Include

**Function Builder: Display EXIT_SAPLRSAP_001**

```plaintext
INCLUDE ZIRSAU01.
```
Initially the screen will have Grayed Buttns

Now Press Display -> Change , The following Message comes , Press Enter

Now the Buttons will be enabled and editor color changes

Now To insert a Code Press Insert Button within that Write the ABAP code

The code is here

```
Tables : MARA 

Declare the L_S_VAITM to have structure if MC11VAOITM .

Data : L_S_VAITM LIKE MC11VAOITM .

Place Cursor within Case Data Dource ..............Enddata source , Press Insert .

Give the Name of Data Source that you have Enhanced and write the Code

    case i_datasource.
    When '2LIS_11_VAITM'.
    Loop at C_T_DATA Into L_S_VAITM .
    L_TABIX = SY-TABIX .
    Select Single * From MARA where MATNR = L_S_VAITM-MATNR.
    If sy-subrc = 0.
        L_S_VAITM-MTART = MARA-MTART .
        Modify C_T_DATA FROM L_S_VAITM INDEX L_TABIX.
    Endif .
    Endloop .
```
Data source relevant changes

Click the data source, Give Request Detail, The following screen comes, Note that Hide check box is checked for MTART Field, Uncheck and then save.

After Removing Hide check.
Extract Checker

Give transaction RSA3 -> 2LIS_11_VAITM, now execute

The screen will be like this, Click Display List

<table>
<thead>
<tr>
<th>Field</th>
<th>From value</th>
<th>To value</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUKRS</td>
<td></td>
<td></td>
<td>Company Code</td>
</tr>
<tr>
<td>ERDAT</td>
<td></td>
<td></td>
<td>Date on which the record was</td>
</tr>
<tr>
<td>POSNR</td>
<td></td>
<td></td>
<td>Item number of the SD document</td>
</tr>
<tr>
<td>VBELN</td>
<td></td>
<td></td>
<td>Sales and Distribution Document</td>
</tr>
<tr>
<td>VKORG</td>
<td></td>
<td></td>
<td>Sales Organization</td>
</tr>
</tbody>
</table>
This is the records note last column, in this you will not see MTART, Because you have to get that from hidden field.

Now in menu bar select
Select MTART check box from hidden field and bring that left using < - 

The field after transferring
Related Content

SDN

SAP Help

Reference to my previous articles

LO Extraction Part 1 – SD Overview
LO Extraction Part 2 – Database Update Logic
LO Extraction Part 3 – Extractor Logic
LO Extraction Part 4 – Update Methods
LO Extraction Part 5 – Datasource Overview
LO Extraction Part 6 – Implementation Methodology

For more information, visit the EDW homepage
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