Applies to:
Any SAP system from which data needs to be pulled into SAP BI system.

Summary
This document describes how to enhance a data source in the source system so that the fields enhanced can be mapped to the info-objects in the BI system and the required data can be extracted & loaded to the data targets.

Author: R. Prem Kumar
Company: SAP
Created on: 23 May 2009

Author Bio
The author works for SAP. His expertise includes SAP BI and ABAP
Table of Contents

Introduction .........................................................................................................................................................3
Goal ....................................................................................................................................................................3
Graphical view ....................................................................................................................................................3
  Source System.............................................................................................................................................................3
Result..................................................................................................................................................................8
Copyright.............................................................................................................................................................9
Introduction
To describe the process followed to enhance a datasource using user-exits which involves a significant amount of ABAP coding

Goal
This document describes how to enhance a data source in the source system so that the fields enhanced can be mapped to the info-objects in the BI system and the required data can be extracted & loaded to the data targets.

Graphical view

Source System
In this document we shall consider SAP CRM system as the source system

Data Source
The data source 0CRM_COMPLAINTS_I would be used as an example in this document

This data source can be seen using the t-code rsa5 (after activation it can be seen in rsa6 as well)

This data source is used to fetch the complaints data (see transaction crmd_order)

Extract Structure
The associated extract structure is CRMT_BW_COMPLAINTS_I

DataSource: Customer version Display

This structure can also be seen in the system using the transaction se11
Dictionary: Display Structure

Using the button **Append structure** the custom fields can be appended to the structure.

**Append Structure**

**Short Description**

Save and Activate the structure

**FUNCTION ENHANCEMENT**

In the transaction **rsa6** highlight the required data source and click on **Function Enhancement**.
The above action would result in the execution of the CMOD transaction.

**Project Management of SAP Enhancements**

Create a project in order to make the enhancement assignment. In this example a project by the name ZCRWTY is created.

Assign the enhancement RSAP0001 & click on Components.

Choose the function exit **EXIT_SAPLRSAP_001**
Activate the Project.

Double click on the function exit EXIT_SAPLRSAP_001, this will open the function module

**Function Builder: Display EXIT_SAPLRSAP_001**

In the above function module (exit) the import parameter I_DATASOURCE holds the data source (i.e. name of the data source)

The tables parameter C_T_DATA holds the values of the datasource whose structure is same as the data source structure

Using the ABAP statements CASE, ENDCASE & WHEN the code for the desired datasource can be executed
See below the example code:

```plaintext
DATA: L_S_INFOSTRU LIKE CRMT_BW_COMPLAINTS_I.
CASE I_DATASOURCE.
  WHEN 'OCR_M_COMPLAINTS_I'.
    LOOP AT C_T_DATA INTO L_S_INFOSTRU.
      IF L_S_INFOSTRU-ITEM_GUID = ''. 
        CLEAR L_STAT.
        L_STAT = L_S_INFOSTRU-BWSTZCRZHED.
      ENDIF.
      L_TABIX = SY-TABIX.
      ……………………….
      ……………………….
      ……………………….
  WHEN 'DATASOURCE1'
      ……………………….
      ……………………….
      ……………………….
  WHEN 'DATASOURCE2'
      ……………………….
      ……………………….
      ……………………….
ENDCASE.
```
Result

When the data source is executed the user exit (enhancement) is triggered and the code written within the exit gets processed and this would fetch the desired data and would update the data source. This enhanced data source can be replicated in the BI system and further processing can be carried out.

Detail: Display

<table>
<thead>
<tr>
<th>DataSource</th>
<th>OCRM_COMPLAINTS_I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Struktur</td>
<td>CRMT_BW_COMPLAINTS_I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bill-To Party</td>
<td>0000</td>
</tr>
<tr>
<td>EW Status</td>
<td>10</td>
</tr>
<tr>
<td>EW Status</td>
<td>10</td>
</tr>
<tr>
<td>EW Status</td>
<td>70</td>
</tr>
<tr>
<td>External Reference Number</td>
<td>CUST_REF1</td>
</tr>
<tr>
<td>Extended Serial Number</td>
<td>1600114</td>
</tr>
<tr>
<td>Code Group</td>
<td>ZFREQ</td>
</tr>
<tr>
<td>Catalog</td>
<td>21</td>
</tr>
<tr>
<td>Code</td>
<td>132</td>
</tr>
<tr>
<td>Code Group</td>
<td>ZINST</td>
</tr>
<tr>
<td>Catalog</td>
<td>25</td>
</tr>
<tr>
<td>Code</td>
<td>302</td>
</tr>
</tbody>
</table>