

Transformation of SRM Rfx Condition and Scales Data from SRM 7.0 to BI



Applies to:

SRM 7.0 and BI 7.0. For more information, visit the [Supplier Relationship Management homepage](#).

Summary

The objective of this document is to assist the Senior SAP BI technical and SRM Technical consultants who are working in a big SRM implementation project, which have Bid analysis statistical reports and reading condition and scales data from SRM 7.0 system to BI including custom fields. The Entire end to end process for technical approach described and actual technical sample code are described in this document.

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Requirement

There will be need of Bid analysis reports, where negotiator to evaluate the bid responses submitted by suppliers for price comparison to provide the statistics at detail level.

These reports will evaluate the bid responses submitted by suppliers against criteria defined by the negotiator/Buyer.

The report can use any BI Tools to display the data.

Example:Report requirement.

Bid Number	Item Number	Description	Scale	Range from	Scale Range To	Valid from	Valid To	Target Cost	Quot Cost	% Variance	Bid Process State
993700011	1	Mat001	C	50	09.09.2009	10.10.2009	2.00€	1.20€	40	Acc/Rejc/hold	
			5C	100	10.11.2009	11.10.2009	1.70€	1.50€	11.76	Acc/Rejc/hold	
			10C		11.11.2009	10.10.2011	1.50€	1.20€	20	Acc/Rejc/hold	
993700011	2	Mat002	C	100	09.09.2009	10.10.2009	5.00€	4.00€	20	Acc/Rejc/hold	
			10C	2000	10.11.2009	11.10.2009	4.00€	3.50€	12.5	Acc/Rejc/hold	
			200C		11.11.2009	10.10.2011	12.50€	2.20€	12	Acc/Rejc/hold	
78700002C	1	Part001	C	1000	09.09.2009	10.10.2009	5.00€	4.00€	20	Acc/Rejc/hold	
			100C	2000	10.11.2009	11.10.2009	4.00€	3.50€		Acc/Rejc/hold	
			200C		11.11.2009	10.10.2011	12.50€	2.20€		Acc/Rejc/hold	
78700002C	2	Part002	C	1000	09.09.2009	10.10.2009	5.00€	4.00€		Acc/Rejc/hold	
			100C	3000	10.11.2009	11.10.2009	4.00€	3.50€		Acc/Rejc/hold	
			300C		11.11.2009	10.10.2011	12.50€	2.20€		Acc/Rejc/hold	

Solution

In SRM 7.0 addition of custom fields in standard structures does not require any additional coding in user exits / badi to populate the custom fields. Extending the same functionality to BI data sources for Rfx and Rfx Quot, if you extended the extract structure with the same custom fields name as you maintained in standard SRM include structures. BI extraction function modules automatically retrieve the data for custom fields content without adding any additional logic in user exit. In addition to this to achieve above requirement, handling the condition and scales data is discussed in this document with sample code.

Rfx Quote Extract Structure for Custom Fields

As explained earlier Rfx Quot extract structure will behave differently then Rfx extracts for custom fields data content. You need to make sure note (**SAP Note 1380052** - Z-Fields are not getting extracted in the DS-0BBP_TD_QUOT_1, Validity date : 28.08.2009).

Details:

Summary

Symptom

Suppose you have enhanced extract structure of the data source 0BBP_TD_QUOT_1 with Z-fields as part of BBP_PDISC table. However these Z-fields are not extracted via data source 0BBP_TD_QUOT_1.

More Terms

0BBP_TD_QUOT_1, BBP_PDISC, Z-Fields

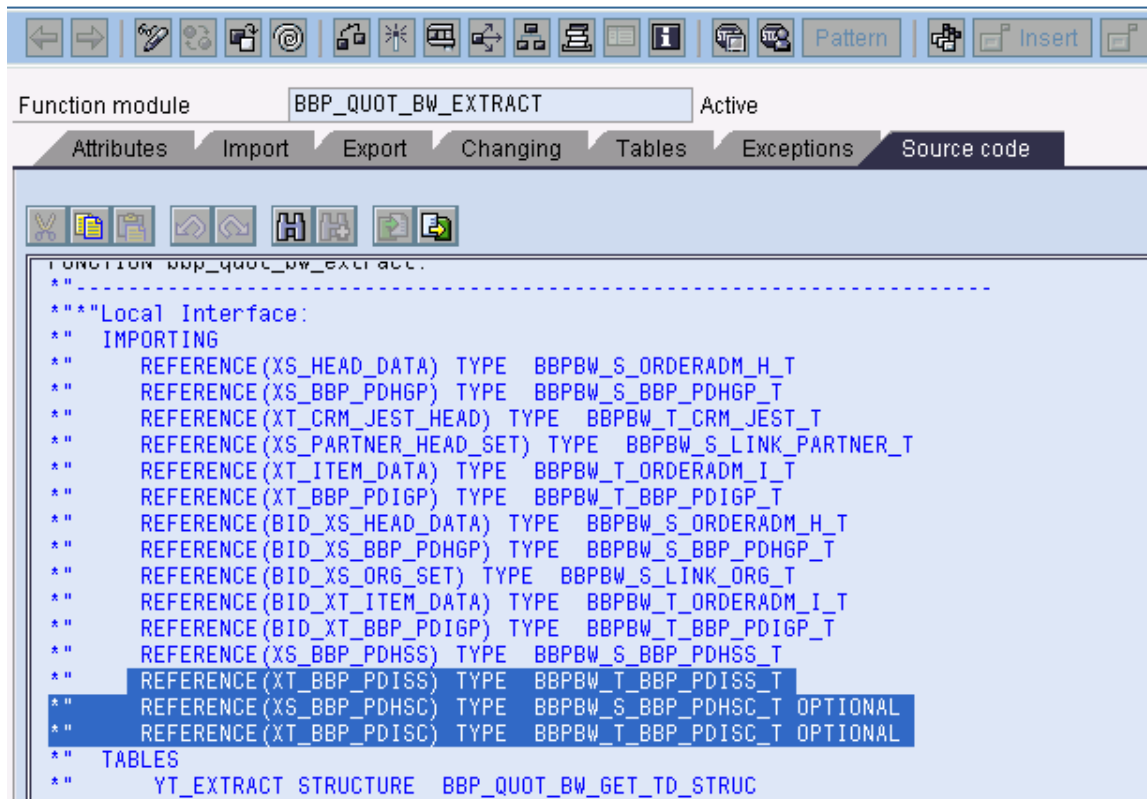
Solution

Before implementing this note kindly do the manual correction as specified below:

1. Go to t-code SE37
2. Enter Function Module Name as BBP_QUOT_BW_EXTRACT and click change button
3. click on Import TAB and the Following two parameters:
 - a. XS_BBP_PDHSC TYPE BBPBW_S_BBP_PDHSC_T
 - b. XT_BBP_PDISC TYPE BBPBW_T_BBP_PDISC_T

Both the parameter checks the optional check box.

Function Builder: Display BBP_QUOT_BW_EXTRACT



Once you apply the note for Quot BI extract structure: following changes will be noted in the function module BBP_QUOT_BE_EXTRACT.

Following lines added:

```
34      ls_bbp_pdisc      type bbpbw_s_bbp_pdisc_t,
35      lv_header_guid    like ls_extract-guid,
```

Following lines added:

```
64      IF not xs_bbp_pdhsc is initial.
65          move-corresponding xs_bbp_pdhsc-pdhsc to ls_extract.
66      ENDIF.
```

113 106 * Added newly for Extractions

Following lines added:

```
114      *——handle tables for customer fields
115          read table xt_bbp_pdisc into ls_bbp_pdisc
116              with key pdisc-guid = ls_item_data-item-guid.
117          IF sy-subrc = 0.
118      *——keep some fields in variables to prevent them from being overwritten
119          lv_header_guid = ls_extract-guid.
120          move-corresponding ls_bbp_pdisc-pdisc to ls_extract.
121          ls_extract-guid = lv_header_guid.
122      ENDIF.
123
```

In above explanation Custom fields are taken care by SRM 7.0 new futures for SRM and also for BI extract structures, now the next part is how to transfer the condition/ scales data to BI.

There are different ways to achieve this; here I will be discussing one the approach which is suitable to many clients requirement to handle scales data, depending on the volume of the data.

As we refer any Rfx / Rfx quot data in bidding engine process, there will be more then thousands line items, each line time may have condition and multiple scales with different quantity range.

Structure Editor: Display ET_CONDITIONS from Entry 1

COND_P	DATE_FROM	DATE_TO	TIME_FRO	TIME_TO	COND_GROUP_ID	COND_TAB	SCALE_DATA_H	SCALE_DATA_P	D	C
1	14.08.2009	14.08.2009	00:00:00	23:59:59	00000000000000000000000000000000	SAP016	1 Entry	1 Entry	B	
1	15.08.2009	31.12.9999	00:00:00	23:59:59	00000000000000000000000000000000	SAP016	1 Entry	2 Entries	B	

The way the data store in SRM for scales, it has to maintain at line Item level, each line item will have multiple scales stored in deep structures.

LIN	LIN_VALUE_01	SCALE_RATE	SCALE	SCALE	SCA	EVA	M	D	LIN_VALUE_01_2	T	SCA
0001	0	11,22	USD	1	EA	C			99	EA	
0002	100	11,00	USD	1	EA	C			X	EA	

Because of nature of data store in SRM, BW data source extraction, which are linear in structures cannot extract directly and store in liner structures at line item level, here comes the requirement to extract / read the data from deep structures and append to liner structures of datasource at line Item level including the quantity "from" and "to" range.

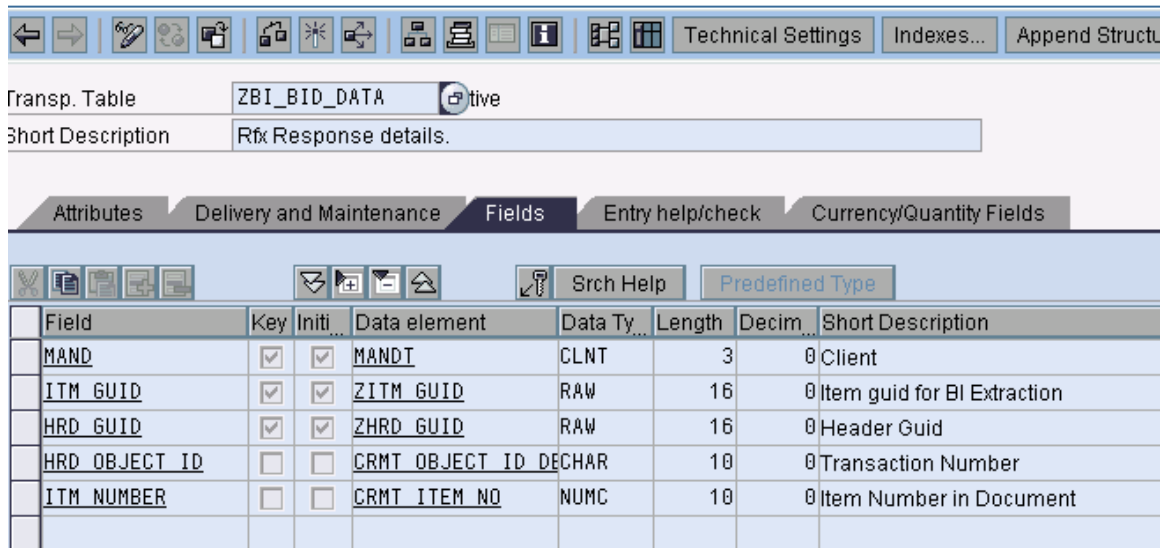
See example report requirement screen shot in fig1.

To achieve this, you can use user exit or create a separate datasource to handle the price data and join in BI with standard quot datasource extract for data mapping. In this approach you need to crate a custom table to store the Rfx quot data which is extracted in initial load, the same table will be used in custom extract function module to read and map the price/scales data for line items, for each scale we will append same line item with different scale range depending on data.

Create a Custom Table which Has Required Information for Custom Data Source to Add the Scales

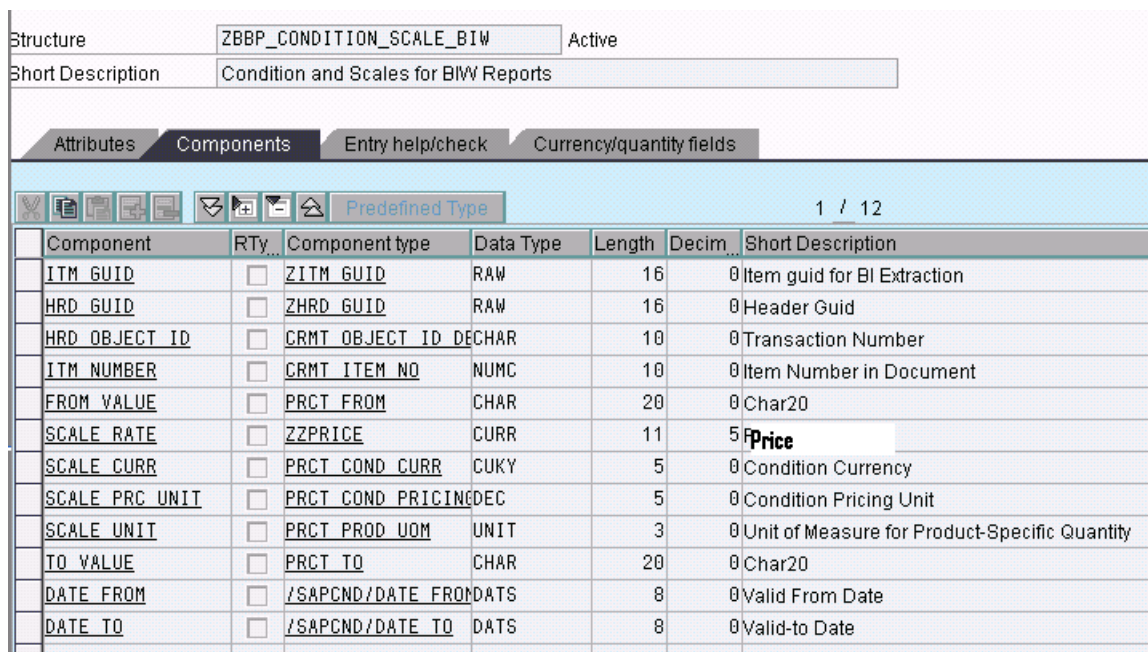
Navigate to SE11 → Enter the required table name as per the development standards and create as shown below; make sure the table has Header, Item and transaction number.

Dictionary: Display Table



Field	Key	Initi...	Data element	Data Ty...	Length	Decim...	Short Description
MAND	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDI	CLNT	3	0	Client
ITM_GUID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZITM_GUID	RAW	16	0	Item guid for BI Extraction
HRD_GUID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZHRD_GUID	RAW	16	0	Header Guid
HRD_OBJECT_ID	<input type="checkbox"/>	<input type="checkbox"/>	CRMT_OBJECT_ID	DECHAR	10	0	Transaction Number
ITM_NUMBER	<input type="checkbox"/>	<input type="checkbox"/>	CRMT_ITEM_NO	NUMC	10	0	Item Number in Document

Also remember guid are very much important here, guid are the Identifiers for header and lines items for any given Rfx quote response document to read price data. Here I am using standard data structures from condition:



Component	RTy...	Component type	Data Type	Length	Decim...	Short Description
ITM_GUID	<input type="checkbox"/>	ZITM_GUID	RAW	16	0	Item guid for BI Extraction
HRD_GUID	<input type="checkbox"/>	ZHRD_GUID	RAW	16	0	Header Guid
HRD_OBJECT_ID	<input type="checkbox"/>	CRMT_OBJECT_ID	DECHAR	10	0	Transaction Number
ITM_NUMBER	<input type="checkbox"/>	CRMT_ITEM_NO	NUMC	10	0	Item Number in Document
FROM_VALUE	<input type="checkbox"/>	PRCT_FROM	CHAR	20	0	Char20
SCALE_RATE	<input type="checkbox"/>	ZZPRICE	CURR	11	5	Price
SCALE_CURR	<input type="checkbox"/>	PRCT_COND_CURR	CUKY	5	0	Condition Currency
SCALE_PRC_UNIT	<input type="checkbox"/>	PRCT_COND_PRICING	DEC	5	0	Condition Pricing Unit
SCALE_UNIT	<input type="checkbox"/>	PRCT_PROD_UOM	UNIT	3	0	Unit of Measure for Product-Specific Quantity
TO_VALUE	<input type="checkbox"/>	PRCT_TO	CHAR	20	0	Char20
DATE_FROM	<input type="checkbox"/>	/SAPCND/DATE_FROM	DATS	8	0	Valid From Date
DATE_TO	<input type="checkbox"/>	/SAPCND/DATE_TO	DATS	8	0	Valid-to Date

The above structure will be in the export structure in BW custom data source to handle the price range and quantity range from condition and scales from SRM.

Function Builder: Display ZBI_QUO_SCALES

Parameter Name	Typing	Associated Type	Optional	Short text
I_T_SELECT	TYPE	SRSC_S_IF_SIMPLE-T_SELECT	<input checked="" type="checkbox"/>	
I_T_FIELDS	TYPE	SRSC_S_IF_SIMPLE-T_FIELDS	<input checked="" type="checkbox"/>	
E_T_DATA	LIKE	ZBBP_CONDITION_SCALE_BIW	<input checked="" type="checkbox"/>	Condition and Scales for BIW Reports
			<input type="checkbox"/>	
			<input type="checkbox"/>	

User Exit Sample Code to Update the Custom Table on Standard Extract

User Exit details for quot structure.

Enhancement	Impl	Exp	RSAP0001 Customer function calls in the service API
Function exit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EXIT_SAPLRSAP_001 EXIT_SAPLRSAP_002

Creating Function Module for Extract Data Source for Price Data

```

WHEN '0BBP_TD_QUOT_1'.
*-->update the table custom table for bi extraction, table will be used in custom data source
*-->for condition table.
  LOOP AT < c_t_data c_data > INTO wa_it_bid_gt_data.
    CLEAR: it_data.
    itab_final-<ITEM_GUID> = wa_it_bid_gt_data-<ITEM_GUID>
    itab_final-<OBJ_RFX_QUOT> = wa_it_bid_gt_data-<quot_number>.
    itab_final-<itm_number> = wa_it_bid_gt_data-<itm_number>.
    MODIFY <zbi_bid_data> FROM <itab_final>.
  endloop.

```

Sample code for scales data read from deep structure to liner structures,

Here we use standard function module to read condition and scales data:BBP_PDCND_GETDETAILS.

Custom table, which is designed to use in extract process can be updated during the standard 0BBP_TD_QUOT_1 extraction. For purpose of testing, you can use RSA3.

DataSource: 0BBP_TD_QUOT_1

Settings		Execution Mode	
RequestID	TEST	<input type="checkbox"/> Debug Mode	
Data Records / Calls	100	<input type="checkbox"/> Auth. Trace	
Display Extr. Calls	10		
Update mode	F		
Target sys			

Selections (Internal Format)			
Field	From value	To value	Short Text
DOC_DATE			Document Date
QUOT_NUMBER	<RFX QUOT NUMBER >		Transaction Number

Table will require fields like item guid, header guid, Rfx number and Item which helps the custom data source to identify correct line item to read the conditions.

Custom table need to maintain with header and Item GUID to read Condition and scales by using standard function module in Custom datasource

150	4A25549B036D737EE10000000A14206F	4A255490036D737EE10000000A14206F	Rfx number	001
150	4A25549B036D737EE10000000A14206F	4A25549B036D737EE10000000A14206F		002
150	4A257753036D737EE10000000A14206F	4A257748036D737EE10000000A14206F	Rfx Numbers	
150	4A257753036D737EE10000000A14206F	4A257753036D737EE10000000A14206F		

Once above process successfully achieved. **Below steps need to create extract function module, assumption reader is know how to copy the BW sample extract function module to maintain API, expecting reader will have knowledge of the extraction API working process.**

Make a copy of the standard fm 'RSAX_BIW_GET_DATA_SIMPLE'.

Navigate to transaction SE37 and copy Standard Function module 'RSAX_BIW_GET_DATA_SIMPLE', as per your client's development standards, Example: Z_DS_QUO_SCALES.

Function Builder: Initial Screen

The screenshot shows the SAP Function Builder interface. The 'Function Module' field is set to 'RSAX_BIW_GET_DATA_SIMPLE'. Below it are buttons for 'Display', 'Change', and 'Create'. A 'Copy Function Module' dialog box is open, showing the following details:

- From Function module: RSAX_BIW_GET_DATA_SIMPLE
- To Function module: Z_DS_QUO_SCALES
- Function group: ZDSQ

The dialog box has a 'Copy' button checked and an 'X' button.

Assign function group and click on enter to create the custom function module ,which will copy are the required export and import attributes , which is necessary to maintain API process.

Function module ZBI_QUU_SCALES Active

Attributes Import Export Changing Tables Exceptions Source code

```

FUNCTION <Z_DS_QUU_SCALES >
*-----
***Local Interface:
* IMPORTING
*   VALUE(I_REQUNR) TYPE  SRSC_S_IF_SIMPLE-REQUNR
*   VALUE(I_DSOURCE) TYPE  SRSC_S_IF_SIMPLE-DSOURCE OPTIONAL
*   VALUE(I_MAXSIZE) TYPE  SRSC_S_IF_SIMPLE-MAXSIZE OPTIONAL
*   VALUE(I_INITFLAG) TYPE  SRSC_S_IF_SIMPLE-INITFLAG OPTIONAL
*   VALUE(I_READ_ONLY) TYPE  SRSC_S_IF_SIMPLE-READONLY OPTIONAL
*   VALUE(I_REMOTE_CALL) TYPE  SBIWA_FLAG DEFAULT SBIWA_C_FLAG_OFF
* TABLES
*   I_T_SELECT TYPE  SRSC_S_IF_SIMPLE-T_SELECT OPTIONAL
*   I_T_FIELDS TYPE  SRSC_S_IF_SIMPLE-T_FIELDS OPTIONAL
*   E_T_DATA STRUCTURE  ZBBP_CONDITION_SCALE_BIW OPTIONAL
* EXCEPTIONS
*   NO_MORE_DATA
*   ERROR_PASSED_TO_MESS_HANDLER
*-----
*****

```

Make sure all the required standard code copied properly,

Sample Code to Extract Condition and Scales Data

Create a structure with required output fields to store the data and assign to E_T_DATA in tables column.

Attributes Import Export Changing Tables Exceptions Source code

Parameter Name	Typing	Associated Type	Optional	Short text
I_T_SELECT	TYPE	SRSC_S_IF_SIMPLE-T_SELECT	<input checked="" type="checkbox"/>	
I_T_FIELDS	TYPE	SRSC_S_IF_SIMPLE-T_FIELDS	<input checked="" type="checkbox"/>	
E_T_DATA	LIKE	ZBBP_CONDITION_SCALE_BIW	<input checked="" type="checkbox"/>	Condition and Scales for BIW Reports

Here are some of required fields which discussed in this document scope.

Component	RTy	Component type	Data Type	Length	Decim	Short Description
<u>ITM_GUID</u>	<input type="checkbox"/>	<u>ZITM_GUID</u>	RAW	16	0	Item guid for BI Extraction
<u>HRD_GUID</u>	<input type="checkbox"/>	<u>ZHRD_GUID</u>	RAW	16	0	Header Guid
<u>HRD_OBJECT_ID</u>	<input type="checkbox"/>	<u>CRMT_OBJECT_ID</u>	DECHAR	10	0	Transaction Number
<u>ITM_NUMBER</u>	<input type="checkbox"/>	<u>CRMT_ITEM_NO</u>	NUMC	10	0	Item Number in Document
<u>FROM_VALUE</u>	<input type="checkbox"/>	<u>PRCT_FROM</u>	CHAR	20	0	Char20
<u>SCALE_RATE</u>	<input type="checkbox"/>	<u>ZZPRICE</u>	CURR	11	5	Price
<u>SCALE_CURR</u>	<input type="checkbox"/>	<u>PRCT_COND_CURR</u>	CUKY	5	0	Condition Currency
<u>SCALE_PRC_UNIT</u>	<input type="checkbox"/>	<u>PRCT_COND_PRICING</u>	DECC	5	0	Condition Pricing Unit
<u>SCALE_UNIT</u>	<input type="checkbox"/>	<u>PRCT_PROD_UOM</u>	UNIT	3	0	Unit of Measure for Product-Specific Quantit
<u>TO_VALUE</u>	<input type="checkbox"/>	<u>PRCT_TO</u>	CHAR	20	0	Char20
<u>DATE_FROM</u>	<input type="checkbox"/>	<u>/SAPCND/DATE_FROM</u>	DATS	8	0	Valid From Date
<u>DATE_TO</u>	<input type="checkbox"/>	<u>/SAPCND/DATE_TO</u>	DATS	8	0	Valid-to Date

Sample Code to Read the Data From Custom Table, which is Updated by Standard Data Source Extractor (0bbp_Td_Quot_1)

```

Function module      ZBI_QUO_SCALES      Active
Attributes  Import  Export  Changing  Tables  Exceptions  Source code

no_more_data = false.

* Fill range tables BW will only pass down simple selection criteria
* of the type SIGN = 'I' and OPTION = 'EQ' or OPTION = 'BT'.
LOOP AT s_s_if-t_select INTO l_s_select WHERE fieldnm = 'HRD_OBJECT_ID'.
  MOVE-CORRESPONDING l_s_select TO r_object_id.
  APPEND r_object_id.
ENDLOOP.

IF r_object_id IS INITIAL.
  SELECT * FROM zbi_bid_data INTO TABLE it_zbi_bid_data.
ELSE.
  SELECT * FROM zbi_bid_data INTO TABLE it_zbi_bid_data WHERE hrd_object_id IN r_object_id.
ENDIF.

ENDIF.                                "First data package ?

```

As explained previously, standard extractor will store / update the custom table, which will be accessed during custom data source extractor process, once the data is read from custom table.

Next step: navigate further and place the required code as below to read the condition / scales data for each line item data which stored in custom table.

Important code to read deep structure:

```

LOOP AT it_zbi_bid_data ASSIGNING <wa_zbi_bid_data>.
  CALL FUNCTION 'BBP_PDCND_GETDETAIL'
    EXPORTING
      i_p_guid           = <wa_zbi_bid_data>-itm_guid
      i_object_type     = 'BUS2202'
      iv_version_type   = v_version_type
      iv_header_guid    = <wa_zbi_bid_data>-hrd_guid
IV_WITH_DELETED_RECORDS = ' '
    IMPORTING
      et_conditions     = ls_scales.
  lv_objid = <wa_zbi_bid_data>-hrd_object_id.
  ls_condscl-itm_number =
>if found map scales.
  IF ls_scales[] IS NOT INITIAL.
>map scales tables from Deep structures
  LOOP AT ls_scales INTO wa_conditions.
    IF NOT wa_conditions-scale_data_p IS INITIAL.
      LOOP AT wa_conditions<scale_data_p> INTO <wa_scales>.
        wa_e_t_data-itm_guid = <wa_zbi_bid_data>-itm_guid.

        wa_e_t_data-hrd_guid = <wa_zbi_bid_data>-hrd_guid.
        wa_e_t_data-hrd_object_id = <wa_zbi_bid_data>-hrd_object_id.
        wa_e_t_data-from_value = wa_scales-lin_value_01.
        wa_e_t_data-scale_prc_unit = wa_scales-scale_prc_unit.
        wa_e_t_data-scale_unit = wa_scales-scale_unit.
        IF wa_scales-lin_value_01_2 IS INITIAL.
          wa_e_t_data-to_value = '9999999999.999999'.
        ELSE.
          wa_e_t_data-to_value = wa_scales-lin_value_01_2.
        ENDIF.
        wa_e_t_data-scale_rate = wa_scales-scale_rate.
        wa_e_t_data-itm_number = <wa_zbi_bid_data>-itm_number.
        wa_e_t_data-date_to = wa_conditions-date_to.
        wa_e_t_data-date_from = wa_conditions-date_from.
        wa_e_t_data-scale_curr = wa_conditions-cond_curr.
        wa_e_t_data-scale_prc_unit = wa_conditions-cond_prc_unit.
>price conversion to internal format.
        CALL FUNCTION 'BAPI_CURRENCY_CONV_TO_EXTERN_9'
          EXPORTING
            currency = wa_conditions-cond_curr
            amount_internal = wa_scales-scale_rate
          IMPORTING
            amount_external = lv_price

        .....
        wa_e_t_data-scale_rate = lv_price.
        IF NOT <wa_zbi_bid_data>-hrd_object_id IS INITIAL.
          APPEND wa_e_t_data TO e_t_data.
          CLEAR: wa_e_t_data, wa_scales.
        ENDIF.
      ENDLOOP.
    ENDIF.
  ENDLOOP.

```

Depending on your requirement you can use Currency conversion for external and internal format in accordance to your condition currency.

To Test this Functionality

Login to BW system, once in the system perform following steps.

Note: complete the basic config in SRM system for BI API service:

General	Extraction	fields
Access Attributes		
Extraction Method	F2 Function Module (Simple Interface)	
Extractor	ZBI_QUO_SCALES	Gen. Interface <input type="checkbox"/>
Extract Structure	ZBBP_CONDITION_SCALE_BIW	
Direct Access	1 supported (without preaggregation)	
Duplicate Records	Undefined	Init. Non.-Cum. <input type="checkbox"/>

Load Data to BI and Run the Report

Steps to create datasource are not in scope of this article.

- a. Navigate to transaction RSA1
- b. Under the Source System tab replicate the data Sources of the system in which is in implementation, overview and do necessary steps to extract data from SRM.

▶ Bids	0BBP_TD_QUOT_1	Change
▶ Rfx	0BBP_TD_BID_1	Change
▼ Rfx Response Scales	Z <DATA_SOURCE_SCALES>	Change
▶ Z <DATA_SOURCE_SCALES>	ZPAK_4EZ156UQK24ZJUGHZ820SLMCZ	Schedule
▼ Dataflow Upwards	_DATAFLOW_UPWARDS	
▶ Z <DATA_SOURCE_SCALES>	3EDTP_4F4HYQVYASYQYUM34NBOAWC	Change
▶ RSD8 ZMM_DS_QUO_SCAL	89QZSTK10RGESBER9WI47ZJNP3WHUTGU	Change

Verify the Data within the PSA

Final output should be shown as below:

Hrd GUID	Item GUID	Bid Number	Item N	Description	Scale Ra	Scale Ra	Valid from	Valid To	Target	Quot	% Variance	Bid F
4A99A89EEE861111E1000000A142	4A99ADF6EE861111E1000000A142	998700011	1	Mat001	0	50	09.09.2009	10.10.2009	2.00\$	1.20\$	40	Accf
4A99A89EEE861111E1000000A142	4A99ADF6EE861111E1000000A142	998700011	1		50	100	10.11.2009	11.10.2009	1.70\$	1.50\$	11.76	Accf
4A99A89EEE861111E1000000A142	4A99ADF6EE861111E1000000A142	998700011	1		101		11.11.2009	10.10.2011	1.50\$	1.20\$	20	Accf
4A99A89EEE861111E1000000A142	4A99ADG6KE861111E1000000A142	998700011	2	Mat002	0	100	09.09.2009	10.10.2009	5.00\$	4.00\$	20	Accf
4A99A89EEE861111E1000000A142	4A99ADG6KE861111E1000000A142	998700011	2		101	2000	10.11.2009	11.10.2009	4.00\$	3.50\$	12.5	Accf
4A99A89EEE861111E1000000A142	4A99ADG6KE861111E1000000A142	998700011	2		2001	4000	11.11.2009	10.10.2011	2.50\$	2.20\$	12	Accf
4A99A89EEE861111E1000000A142	4A99ADG6KE861111E1000000A142	998700011	1	Mat003	4001		11.10.2011	999999		1.0\$		
4A98F89EEE864749E1000000A142	4A968FG6KE865849E1000000A142	787000020	1	Part001	0	1000	09.09.2009	10.10.2009	5.00\$	4.00\$	20	Accf

Example Report Output:

Bid Number	Item Num	Description	Scale Range	Scale Range	Valid from	Valid To	Target Cost	Quot Cost	% Variance	Bid Process Status
998700011	1	Mat001	0	50	09.09.2009	10.10.2009	2.00\$	1.20\$	40	Accepted
			50	100	10.11.2009	11.10.2009	1.70\$	1.50\$	11.76	Accepted
			100		11.11.2009	10.10.2011	1.50\$	1.20\$	20	Rejected
998700011	2	Mat002	0	100	09.09.2009	10.10.2009	5.00\$	4.00\$	20	Accepted
			100	2000	10.11.2009	11.10.2009	4.00\$	3.50\$	12.5	Rejected
			2000	2000	11.11.2009	10.10.2011	2.50\$	2.20\$	12	Hold
998700011	3	Mat003	2001		11.10.2011					

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