

SAP BW Infospoke – Dynamic Update Selection Screen Values



Applies to:

This article is applicable to all the SAP BI consultants who are accustomed with SAP ABAP skills. For more information, visit the [EDW homepage](#).

Summary

This document specifies the detailed understanding to dynamically update the Infospoke Selection Screen values.

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Created on: 8 July 2010

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Scenario

Update the selection screen of the Infospoke dynamically whenever executed every month. Update the DSO and Calendar Month values of Infospoke selection screen dynamically.

Step-by-Step Solution

Solution is explained in four steps:

Infospoke: Design of Infospoke

ABAP Code (Logic): Logic to update the selection screen for Infospoke

Process Chain: Design of the process chain to execute the ABAP code

Execution: Process to execute the Code Online

Infospoke

Infospoke has been built on mutiprovider PHSDCPMP1 (Have quarterly based DSOs).

The screenshot shows the configuration for an Infospoke. The 'InfoSpoke' field is set to 'YPHSDCPMP1_DSPBJ1' and the 'Short description' is 'Extract'. The 'Version' is 'Active' and 'Obj. status' is 'Active, executable'. The 'Data Source' is 'MultiProvider' with 'PHSDCPMP1' selected. The 'Destination' is 'YPHSDCPMP' and 'Extraction Mode' is 'Full'. 'Lines per Data Package' is '1000000'.

Multiprovider(Design):

| DSO | Date Range |
|--|------------------------------|
| PHSDSH21(Fiscal 2009/Q1 - Sales History) | April 2008 – June 2008 |
| PHSDSH22(Fiscal 2009/Q2 - Sales History) | July 2008 – September 2008 |
| PHSDSH23(Fiscal 2009/Q3 - Sales History) | October 2008 – December 2008 |
| PHSDSH24(Fiscal 2009/Q4 - Sales History) | January 2009 – March 2009 |
| * | |
| * | |

| | |
|--|------------------------------|
| PHSDSH28(Fiscal 2010/Q4 - Sales History) | January 2010 – March 2010 |
| PHSDSH29(Fiscal 2011/Q1 - Sales History) | April 2010 – June 2010 |
| PHSDSH30(Fiscal 2011/Q2 - Sales History) | July 2010 – September 2010 |
| PHSDSH31(Fiscal 2011/Q3 - Sales History) | October 2010 – December 2010 |
| PHSDSH32(Fiscal 2011/Q4 - Sales History) | January 2011 – March 2011 |

Selection Screen:

InfoSpoke: YPHSDCPMP1_DSPBJ1
Short description: Extract
Version: Active (Active icon) Saved (Saved icon)
Obj. status: Active, executable (Active icon)

General | Destination | InfoObjects | **Selection** | Transformation

| InfoObject | Description | Sel... | From Val | To Value |
|------------|-------------------|--------|----------|----------|
| 0CALMONTH | Cal. year / mon.. | = | 04/2010 | |
| 0INFOPROV | InfoProvider | = | PHSDSH29 | |
| 0CHNGID | Change Run ID | = | | |

Our aim is to update the Calendar Month and Infoprovider values dynamically for every month. In whichever month the Infospoke was executed, it should pick the relevant DSO for that month and update the selection screen of Infospoke. E.g

| Month | DSO |
|------------|----------|
| 02/2010 | PHSDSH28 |
| 05/2010 | PHSDSH29 |
| And so on. | |

ABAP Code (Logic)

ABAP code takes date as selection screen input and updates the selection screen values for infospoke.

Selection Screen

Date of Extraction: 03/10/2010

Date is being fed as an input to the code which further updates the selection screen of infospoke.

ABAP Code:

Step1: To update the Infospoke selection screen, two tables `RSBSPOKESELSET` and `RSBSPOKEVSELSET` should be updated with proper values.

Step2: Retrieve the respective DSO name as per the date entered in the selection screen.

Step3: Update the relevant tables `RSBSPOKESELSET` and `RSBSPOKEVSELSET`:

***** Update Table `RSBSPOKESELSET` *****

** Infoobject `INFOPROV`*

```
wa_final-INFOPOKE = 'YPHSDCPMP1_DSPBJ1'.
wa_final-objvers = 'A'.
wa_final-posit = l_count.
wa_final-IOBJNM = '0INFOPROV'.
wa_final-SIGN = 'I'.
wa_final-OPT = 'EQ'.
wa_final-LOW = wa_output-low.
APPEND wa_final TO it_final.
CLEAR: wa_final.
```

** Infoobject `0CALMONTH`*

```
wa_final-INFOPOKE = 'YPHSDCPMP1_DSPBJ1'.
wa_final-objvers = 'A'.
wa_final-posit = l_count + 1.
wa_final-IOBJNM = '0CALMONTH'.
wa_final-SIGN = 'I'.
wa_final-OPT = 'EQ'.
wa_final-LOW = p_date+0(6).
APPEND wa_final TO it_final.
CLEAR: wa_final.
```

** Update the table*

```
UPDATE RSBSPOKESELSET FROM TABLE it_final.
```

** Infoobject `0INFOPROV`*

```
wa_final-INFOPOKE = 'YPHSDCPMP1_DSPBJ1'.
wa_final-objvers = 'M'.
wa_final-posit = l_count.
wa_final-IOBJNM = '0INFOPROV'.
wa_final-SIGN = 'I'.
wa_final-OPT = 'EQ'.
wa_final-LOW = wa_output-low.
APPEND wa_final TO it_final.
CLEAR wa_final.
```

** Infoobject `0CALMONTH`*

```
wa_final-INFOPOKE = 'YPHSDCPMP1_DSPBJ1'.
wa_final-objvers = 'M'.
wa_final-posit = l_count + 1.
wa_final-IOBJNM = '0CALMONTH'.
wa_final-SIGN = 'I'.
wa_final-OPT = 'EQ'.
wa_final-LOW = p_date+0(6).
APPEND wa_final TO it_final.
CLEAR wa_final.
```

** Update Table*

```
UPDATE RSBSPOKESELSET FROM TABLE it_final.
```

| Table: RSBSPokeSElSET | | | | | | |
|---|---------|-------|-----------|------|-----|----------|
| Displayed Fields: 8 of 8 Fixed Columns: 3 List Width 0250 | | | | | | |
| OSPOKE | OBJVERS | POSIT | I OBJNM | SIGN | OPT | LOW |
| SDCPMP1_DSPBJ1 | A | 0001 | 0INFOPROV | I | EQ | PHSDSH29 |
| SDCPMP1_DSPBJ1 | A | 0002 | 0CALMONTH | I | EQ | 201004 |
| SDCPMP1_DSPBJ1 | M | 0001 | 0INFOPROV | I | EQ | PHSDSH29 |
| SDCPMP1_DSPBJ1 | M | 0002 | 0CALMONTH | I | EQ | 201004 |

***** Update Table RSBSPokeVSElSET *****

* Infoobject 0INFOPROV

```

wa_final1-infospoke = 'YPHSDCPMP1_DSPBJ1'.
wa_final1-version = l_version.
wa_final1-posit = l_count.
wa_final1-iobjnm = '0INFOPROV'.
wa_final1-sign = 'I'.
wa_final1-opt = 'EQ'.
wa_final1-low = wa_output-low.
APPEND wa_final1 TO it_final1.
CLEAR: wa_final1.

```

* Infoobject 0CALMONTH

```

wa_final1-infospoke = 'YPHSDCPMP1_DSPBJ1'.
wa_final1-version = l_version.
wa_final1-posit = l_count + 1.
wa_final1-iobjnm = '0CALMONTH'.
wa_final1-sign = 'I'.
wa_final1-opt = 'EQ'.
wa_final1-low = p_date+0(6).
APPEND wa_final1 TO it_final1.
CLEAR: wa_final1.

```

* Update table

```

UPDATE RSBSPokeVSElSET FROM TABLE it_final1.

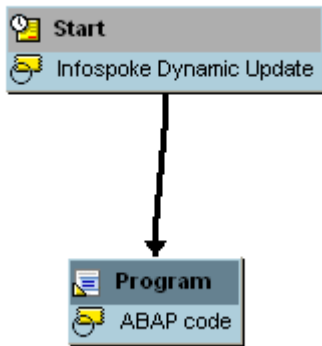
```

| Table: RSBSPokeVSElSET | | | | | | | |
|---|-------------------|---------|-------|-----------|------|-----|----------|
| Displayed Fields: 8 of 8 Fixed Columns: 3 List Width 0250 | | | | | | | |
| | INFOSPOKE | VERSION | POSIT | I OBJNM | SIGN | OPT | LOW |
| <input type="checkbox"/> | YPHSDCPMP1_DSPBJ1 | 00052 | 0001 | 0INFOPROV | I | EQ | PHSDSH29 |
| <input type="checkbox"/> | YPHSDCPMP1_DSPBJ1 | 00052 | 0002 | 0CALMONTH | I | EQ | 201004 |

After the tables are updated the Infospoke selection screen would also be updated

Process Chain

Create a process chain which contains the above ABAP Code (This would dynamically update the Infospoke Selection Screen when executed):



Execution

Online Execution:

Enter the value 03/10/2010 in the date field:

Execute the Code.

Infospoke (Selection Screen)

| InfoObject | Description | Sel... | From Val | To Value |
|------------|-------------------|--------|----------|----------|
| 0INFOPROV | InfoProvider | | PHSDSH28 | |
| 0CALMONTH | Cal. year / mon.. | | 03/2010 | |
| 0CHNGID | Change Run ID | | | |

DSO PHSDSH28 is updated in Infospoke selection screen.

Table: RSBSPokeSElSET

Table: RSBSPokeSElSET
 Displayed Fields: 8 of 8 Fixed Columns: 3 List Width 0250

| INFOPOKE | OBJVERS | POSIT | IOBJNM | SIGN | OPT | LOW |
|--|---------|-------|-----------|------|-----|----------|
| <input type="checkbox"/> YPHSDCPMP1_DSPBJ1 | A | 0001 | 0INFOPROV | I | EQ | PHSDSH28 |
| <input type="checkbox"/> YPHSDCPMP1_DSPBJ1 | A | 0002 | 0CALMONTH | I | EQ | 201003 |
| <input type="checkbox"/> YPHSDCPMP1_DSPBJ1 | M | 0001 | 0INFOPROV | I | EQ | PHSDSH28 |
| <input type="checkbox"/> YPHSDCPMP1_DSPBJ1 | M | 0002 | 0CALMONTH | I | EQ | 201003 |

Table: RSBSPokeVSElSET

Table: RSBSPKEVSELSET

Displayed Fields: 8 of 8 Fixed Columns:

3 List Width 0250

| | INFOSPOKE | VERSION | POSIT | IOBJNM | SIGN | OPT | LOW |
|--------------------------|-------------------|---------|-------|-----------|------|-----|----------|
| <input type="checkbox"/> | YPHSDCPMP1_DSPBJ1 | 00053 | 0001 | 0INFOPROV | I | EQ | PHSDSH28 |
| <input type="checkbox"/> | YPHSDCPMP1_DSPBJ1 | 00053 | 0002 | 0CALMONTH | I | EQ | 201003 |

Related Content

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

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