

SAP BOBJ Planning & Consolidation, version for SAP Netweaver How-To Guide



How To...

Custom BADI for replicating
“Destination_App” script logic
functionality in SAP

**BUSINESSOBJECTS PLANNING AND
CONSOLIDATION, version of SAP
NetWeaver.**

Applicable Releases:

SAP BusinessObjects Planning and Consolidations, version for SAP
NetWeaver, version 7.0, SP02 and higher.

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Document History

Document Version	Description
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1.00	First official release of this guide
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Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

Icons

Icon	Description
	Caution
	Note or Important
	Example
	Recommendation or Tip

Table of Contents

1.	Business Scenario	1
2.	Background Information	1
3.	Prerequisites	1
4.	Step-by-Step Procedure	2
5.	Implementation	3
6.	Error Messaging	9

1. Business Scenario

During typical planning scenarios records may be require to be copied or aggregated into application outside of the application in which the record was first created. One example might be where detail planning occurs in one application, but these planned records also need to be "sent" to a higher level aggregated view of the plan stored in different application.

2. Background Information

The Destination_App functionality has been extensively used in the current SAP BusinessObjects Planning and Consolidation, version of Microsoft as well as earlier versions of BPC/Outlooksoft. This How To Guide (HTG) describes the procedure for implementing a Business Add-In (BADI) that establishes a new keyword in script logic emulating the original Destination_App functionality.

This BADI will allow the transfer of records from a specified source application to specified target application. *Both applications must be contained within the same AppSet.*

3. Prerequisites

- SAP BusinessObjects Planning and Consolidation version for SAP NetWeaver 7.0 SP02 or higher
- ABAP programming skills (desirable but necessary)
- Access to SAP NetWeaver transaction codes: SE20, SE19, SE20, SE38, STMS

4. Step-by-Step Procedure

This How-To Guide has a transport associated with it. Send the transports to your organization's BASIS administrator and have him/her import the transport into the system where you want to implement the How-To Guide solution.

These transports contain the following series of objects:

Z_EI_BPC_SL_DESTINATION_APP	Enhancement Implementation
ZCL_SL_BPC_DESTINATION_APP	Implementation Class
ZMC_BPC_APP	Message Class
ZBPC_DAPP	Package

After your BASIS Administrator successfully loads the transports into your system verify that the objects exist and all objects are active.

5. Implementation

Once the BADI has been correctly installed; the user can create script logic that calls the BADI to perform the record transfers.

To call the BADI from script logic, use the following format:

```
*START_BADI DAPP
  DESTINATION_APP="PLANNING5"
  WRITE=OFF
*END_BADI
```

In the above example the target destination is "PLANNING5". Please include the additional statement WRITE=OFF to enhance overall BADI performance. If you forget, a warning message will be displayed at execution that will remind you the adding this statement will enhance performance.

Notes:

1. Scoping statements can be used to limit the number of records processed in the BADI call
2. There is no need for adding a *COMMIT statement to post records into the database, the execution of the BADI performs this function automatically.
3. Valid parameters that can be used with this BADI:

DESTINATION_APP

Format: DESTINATION_APP="<name of target application>"

Please be sure to include the open/closed quotation marks.

RENAME_DIM

Format: RENAME_DIM="<source dim name>=<target dim name>","<source dim name>=<target dim name>",...

Only one RENAME_DIM parameter will be accepted, but you can add as many combinations of source:target dimensions by separating the individual groups with a comma.

ADD_DIM

Format: ADD_DIM="<dim name>","<dim name>",...

Only one ADD_DIM parameter will be accepted, but you can add as many combinations of target dimensions by separating the individual groups with a comma.

WRITE

Format: WRITE=ON - or - WRITE=OFF

DO NOT USE open/closed quotation marks around ON or OFF.

Default is WRITE=ON, for this BADI please make sure you use WRITE=OFF !

QUERY

Format: QUERY=ON -or- QUERY=OFF

DO NOT USE open/closed quotation marks around ON or OFF.

Default is QUERY=ON



DEBUG

Format: DEBUG=ON –or- DEBUG=OFF

DO NOT USE open/closed quotation marks around ON or OFF.

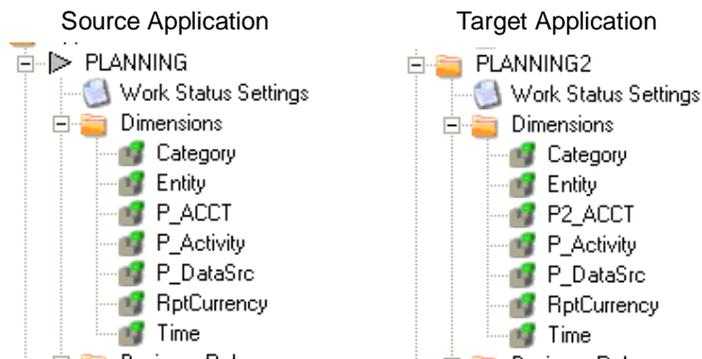
Default is DEBUG=OFF

If DEBUG is set to ON, then a more detailed log is generated identifying all records generated during execution.

Example scenarios for using "DAPP":

1. Source and Target applications have the same dimensions, but one or more dimension names are different.

In this scenario one or more of the source dimensions have a different name in the target application:



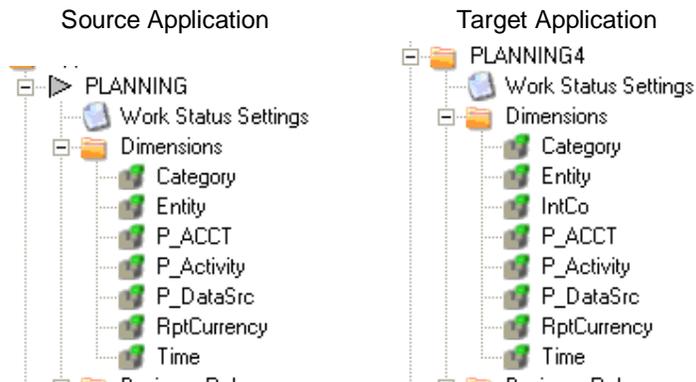
Note the change in the P_ACCT dimension in the source application (PLANNING) to the P2_ACCT dimension name in the target application (PLANNING2).

Use the keyword **RENAME_DIM** to identify the new target dimension, for example:

```
*XDIM_MEMBERSET TIME = 2009.JAN
*XDIM_MEMBERSET CATEGORY = PLAN
*XDIM_MEMBERSET P_ACCT = VALIDATION
*XDIM_MEMBERSET RPTCURRENCY = LC
*START_BADI DAPP
  DESTINATION_APP="PLANNING2"
  RENAME_DIM="P_ACCT=P2_ACCT"
  WRITE=OFF
*END_BADI
```

2. Target application has one or more dimensions not include in Source application.

In this scenario one or more of the source dimensions have a different name in the target application:



Note the change in the addition of the **IntCo** dimension in the target application (PLANNING4).

Use the keyword **ADD_DIM** to specify a value for the new target dimension, for example:

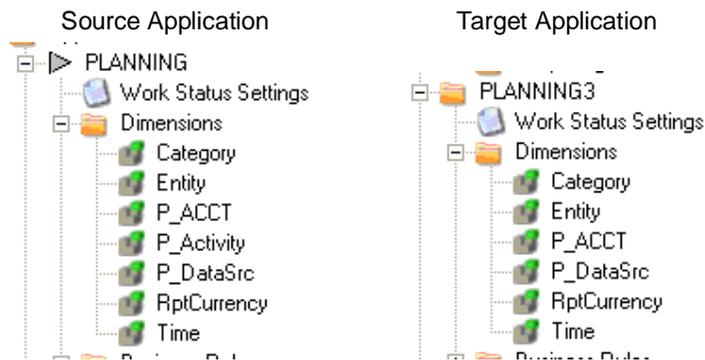
```
*XDIM_MEMBERSET TIME = 2009.JAN
*XDIM_MEMBERSET CATEGORY = PLAN
*XDIM_MEMBERSET P_ACCT = VALIDATION
*XDIM_MEMBERSET RPTCURRENCY = LC
*START_BADI DAPP
  DESTINATION_APP="PLANNING4"
  ADD_DIM = "INTCO=I_NONE"
  WRITE=OFF
*END_BADI
```

Note: the BADI will check that the dimension member value already exists.

Records cannot be created for dimension members that have not been loaded.

3. Source application has dimensions that do not exist in the Target application.

In this scenario there are one or more source dimensions that don't exist in the Target application.



Note the missing dimension, P_Activity, in the target application (PLANNING3).

In prior versions of BPC this situation was controlled via the keyword SKIP_DIM. The use of SKIP_DIM is **no longer necessary** due to the automatic aggregation provided by SAP NetWeaver.

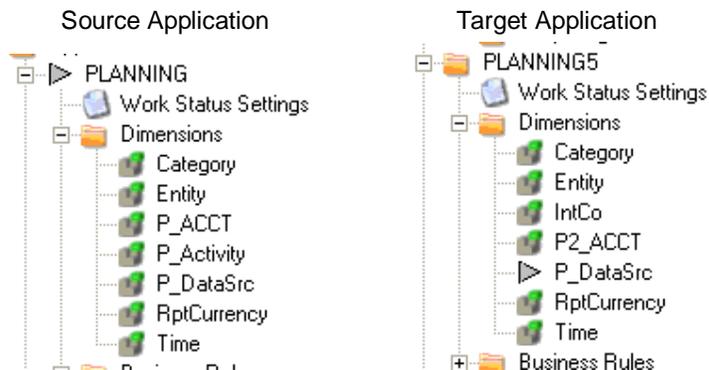
The following code will correctly migrate records from the source into the target application:

```
*XDIM_MEMBERSET TIME = 2009.JAN
*XDIM_MEMBERSET CATEGORY = PLAN
*XDIM_MEMBERSET P_ACCT = VALIDATION
*XDIM_MEMBERSET RPTCURRENCY = LC
*START_BADI DAPP
  DESTINATION_APP="PLANNING3"
  WRITE=OFF
*END_BADI
```

4. Combination of example scenarios 1, 2 and 3.

DAPP can process combination of all of the previously described simple senerios.

In this scenario, there are one or more source dimensions that don't exist in the Target application.



Note:

1. The missing dimension, P_Activity, in the target application (PLANNING5).
2. The change in dimension name P_ACCT to P2_ACCT
3. An additional dimension added to the target application.

The following code will correctly migrate records from PLANNING into PLANNING5:

```
*XDIM_MEMBERSET TIME = 2009.JAN
*XDIM_MEMBERSET CATEGORY = PLAN
*XDIM_MEMBERSET P_ACCT = VALIDATION
*XDIM_MEMBERSET RPTCURRENCY = LC
*START_BADI DAPP
  DESTINATION_APP="PLANNING5"
  RENAME_DIM="P_ACCT=P2_ACCT"
  ADD_DIM = "INTCO=I_NONE"
  WRITE=OFF
*END_BADI
```

6. Error Messaging

This BADI has incorporated several error messages to help the user navigate the process:

Message 1:

"The Dimension P2_ACCT does not exist in Application PLANNING4, so it cannot be added.

An error occurred while processing parameters, exiting Destination App."

This error message will be displayed if the user attempts to use the RENAME_DIM command for a dimension (P2_ACCT in the example shown) that does not exist in the target application (PLANNING4 in the example shown).

Message 2:

The Dimension INTCO does not exist in Application PLANNING5, so it cannot be added.

An error occurred while processing parameters, exiting Destination App.

This error message will be displayed if the user attempts to use the ADD_DIM command for a dimension (INTCO in the example shown) that does not exist in the target application (PLANNING5 in the example shown).

Message 3:

For Performance Reasons please add the parameter WRITE=OFF.

User failed to add the statement WRITE=OFF as part of the BADI parameter submittal.

Example:

```
*START_BADI DAPP
  DESTINATION_APP="PLANNING5"
  RENAME_DIM="P_ACCT=P2_ACCT"
  ADD_DIM = "INTCO=I_NONE"
  WRITE=OFF
```

```
*END_BADI
```

NOTE: Do not enclose OFF or ON in parentheses!

Message 4:

Write Back Failed with Error

No records found

This message will appear if the scrip logic developer turns off the query option in the BAPI parameter list. For example:

```
*START_BADI DAPP
  DESTINATION_APP="PLANNING5"
  RENAME_DIM="P_ACCT=P2_ACCT"
  ADD_DIM = "INTCO=I_NONE"
  WRITE=OFF
  QUERY=OFF
```

```
*END_BADI
```

QUERY=OFF should only be used during initial development or troubleshooting. Best practice is to set this parameter as QUERY=ON or not specified at all (default uses Query=ON).

NOTE: Do not enclose OFF or ON in parentheses!

Message 5:

The value PLANNING5 is not specified correctly for parameter DESTINATION_APP.
Please remember that parameter DESTINATION_APP requires "" marks around its value.

An error occurred while processing parameters, exiting Destination App.

This error results from failure to add the open/closed quotations around the parameter value for the parameter DESTINATION_APP

Example: DESTINATION_APP="PLANNING5"

Message 6:

The value P_ACCT=P2_ACCT is not specified correctly for parameter RENAME_DIM.
Please remember that parameter RENAME_DIM requires "" marks around its value.

An error occurs while processing parameters, exiting Destination App.

This error results from failure to add the open/closed quotations around the parameter value for the parameter RENAME_DIM.

Example: RENAME_DIM="P_ACCT=P2_ACCT"

Message 7:

The Dimension Member XYZ123 for Dimension INTCO is not valid.

An error occurred while processing parameters, exiting Destination App.

This error results from failure to specify a valid dimension member value as the parameter value in the ADD_DIM statement.

Example:

```
*START_BADI DAPP
  DESTINATION_APP="PLANNING5"
  RENAME_DIM="P_ACCT=P2_ACCT"
  ADD_DIM = "INTCO=XYZ123"
  WRITE=OFF
```

```
*END_BADI
```

The error message occurs because the value XYZ123 does not exist as a valid dimension member.

Message 8:

You have not specified the parameter INTCO which is required.

If the target application has dimensions not existing in the source application, then the extra target dimensions must be identified with the ADD_DIM statement.

Message 9:

Begin Writing Records to Data Manager Log

If the DEBUG=ON

Parameter is set, then the system will create a more detailed log including the values of all written records. The enhance log starts with the line "Begin Writing Records to Data Manager Log"

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