Customizing Data Distribution
All Countries
## Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example</strong></td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Emphasized words or expressions.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
</tr>
<tr>
<td><code>&lt;Example&gt;</code></td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
</tr>
</tbody>
</table>
# Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2013-03-22</td>
<td>Release to Customer</td>
</tr>
</tbody>
</table>
# Table of Contents

1  **Introduction**.........................................................................................................................5  
   1.1 Scenario Description.............................................................................................................. 5  
   1.2 Systems and Releases ......................................................................................................... 7  
   1.3 Prerequisites ....................................................................................................................... 8  

2  **Configuration in SAP ERP**................................................................................................... 9  
   2.1 Defining Data Types and Elements ..................................................................................... 9  
   2.2 Creating the ZBI1_DATA_RETRIEVE RFC Module ............................................................ 10  

3  **Configuration in SAP Business One integration for SAP NetWeaver**..............................18  
   3.1 Configuring the Customizing Products Distribution Scenario ........................................ 18  
   3.2 Configuring the Customizing Customer or Business Partner Distribution Scenario ..........20  
   3.3 Triggering the Scenarios .................................................................................................... 23  

4  **Mapping Table for Customizing Tables** ..............................................................................25
1 Introduction

1.1 Scenario Description

Customizing Data Distribution (CDD) distributes customizing data available in SAP ERP. The scenarios provide consistent customizing data to your integrated SAP Business One company network. CDD is the foundation and prerequisite for all other business integration scenarios.

Customizing Data Distribution Scenario Overview

The sap.CDP Produkt scenario distributes the following product-related customizing data:

<table>
<thead>
<tr>
<th>Customizing Data</th>
<th>SAP ERP Table</th>
<th>SAP Business One Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material groups</td>
<td>T023T</td>
<td>OITB</td>
</tr>
<tr>
<td>Plants and branches</td>
<td>T001W</td>
<td>OWHS</td>
</tr>
</tbody>
</table>

Material, item and product are synonyms in this document.

The sap.CDP Partner scenario distributes the following business partner or customer-related customizing data:

<table>
<thead>
<tr>
<th>Customizing Data</th>
<th>SAP ERP Table</th>
<th>SAP Business One Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer groups</td>
<td>T151T</td>
<td>OCRG</td>
</tr>
<tr>
<td>Shipping conditions</td>
<td>TVSBT</td>
<td>OSHP</td>
</tr>
<tr>
<td>Delivery priorities</td>
<td>TPRIT</td>
<td>OBPP</td>
</tr>
<tr>
<td>Sales districts</td>
<td>T171T</td>
<td>OTER</td>
</tr>
</tbody>
</table>

Customizing data distribution provides the following scenario variants:
• Initial Load

This scenario variant initially loads customizing data from central SAP ERP to SAP Business One.

1. A system administrator triggers the scenario variant on SAP Business One integration for SAP NetWeaver once to initially distribute customizing records to the subsidiary system or systems.
2. The scenario variant deletes already available customizing records in the subsidiary’s default table.
3. The scenario variant distributes all customizing data records from the SAP ERP customizing table that match certain filter values.
4. The scenario variant checks, if the key logic for customizing records in the receiving SAP Business One company default table differs from the key logic of the customizing records in the sending SAP ERP system. If the key logic differs, the scenario variant automatically creates the necessary value mapping.
### Delta Load

This scenario variant executes delta load of customizing data from SAP ERP to SAP Business One.

1. A system administrator triggers the scenario variant on SAP Business One integration for SAP NetWeaver.
2. The scenario variant distributes updated and new customizing data records from the SAP ERP customizing table that match certain filter values.
3. The scenario variant checks, if the key logic for customizing records in the receiving SAP Business One company default table differs from the key logic of the customizing records in the sending SAP ERP system. If the key logic differs, the scenario variant automatically creates the necessary value mapping.

#### 1.2 Systems and Releases

You can use the scenario with the following systems and releases:

<table>
<thead>
<tr>
<th>System</th>
<th>Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP ERP</td>
<td>4.6C, 4.7.100, 4.7.200, ECC 6.0</td>
</tr>
<tr>
<td>SAP Business One</td>
<td>SAP Business One 8.8, 8.81, 8.82, 9.0, 9.1, 9.2</td>
</tr>
<tr>
<td></td>
<td>SAP Business One 8.82, 9.0, 9.1, 9.2 version for SAP HANA</td>
</tr>
<tr>
<td>SAP Business One integration for SAP NetWeaver</td>
<td>9.0</td>
</tr>
</tbody>
</table>
1.3 Prerequisites

- You have installed SAP Business One integration for SAP NetWeaver.
- You have set up your technical system landscape connecting to SAP Business One systems and SAP ERP.
- You have tested the technical connections.

  For more information about installing SAP Business One integration for SAP NetWeaver and setting up your technical system landscape, see the Administrator's Guide.

- If you cannot use the scenario packages without changes, copy the scenario steps of the packages to your namespace and adjust the definitions.
2 Configuration in SAP ERP

To retrieve customizing data and enable the scenario, do the following in SAP ERP:

- Define data types and elements.
- Create and activate the ZB1I_DATA_RETRIEVE RFC module that uses the defined data types and elements for data retrieval.

As of ECC 6.0, the configuration steps to set up your integration process using ALE are no longer completely assigned to the ALE section in IMG. The following procedures describe whether you access functions from the SAP menu or from IMG.

The SALE transaction SALE contains all necessary ALE customizing IMG steps. You can use this transaction to make the ALE configuration process easier. This area menu displays only the ALE-relevant customizing entries.

To open IMG, call the SPRO transaction and choose SAP Reference IMG.

2.1 Defining Data Types and Elements

Create the ZFIELD, ZFIELDVALUE, ZTABLECONDITION, ZTABLEFIELDS, ZFIELDVALUES, and ZTABLEWHERE data types. The RFC module uses them for data retrieval.

Procedure

1. In SAP ERP form the SAP menu choose Tools → ABAP Workbench → Development → ABAP Dictionary. Alternatively, call the SE11 transaction.
2. In the ABAP Dictionary: Initial Screen, select the Data type radio button.
3. In the Data type field, enter the ZFIELD value and select Create.
4. In the Create Type ZFIELD dialog box, select the Structure radio button and choose Enter.
5. In the Dictionary: Maintain Structure screen, in the Short Description field, enter the Fieldname value.
6. Select the Components tab and specify the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component</td>
<td>FIELDNAME</td>
<td></td>
</tr>
<tr>
<td>Data Type</td>
<td>CHAR</td>
<td>If the field is not open for entering values, on the Component tab, choose the Predefined Type button in the button bar.</td>
</tr>
<tr>
<td>Length</td>
<td>255</td>
<td></td>
</tr>
</tbody>
</table>

7. Save your entries.
8. To add the following data types, repeat steps 2 to 7:

<table>
<thead>
<tr>
<th>Data Type Name</th>
<th>Short Description</th>
<th>Type</th>
<th>Components Tab Component</th>
<th>Data Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZFIELDVALUE</td>
<td>Fieldvalue</td>
<td>Structure</td>
<td>FIELDVALUE</td>
<td>CHAR</td>
<td>255</td>
</tr>
<tr>
<td>ZTABLECONDITION</td>
<td>Tablecondition</td>
<td>Structure</td>
<td>FIELDNAME</td>
<td>CHAR</td>
<td>255</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OPERAND</td>
<td>CHAR</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VALUE</td>
<td>CHAR</td>
<td>255</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Type Name</th>
<th>Short Description</th>
<th>Type</th>
<th>Line Type Tab, In Line Type Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZTABLEFIELDS</td>
<td>Tablefields</td>
<td>Table Type</td>
<td>Enter ZFIELD.</td>
</tr>
<tr>
<td>ZFIELDVALUES</td>
<td>Fieldvalues</td>
<td>Table Type</td>
<td>Enter ZFIELDVALUE</td>
</tr>
<tr>
<td>ZTABLEWHERE</td>
<td>Tablewhere</td>
<td>Table Type</td>
<td>Enter ZTABLECONDITION</td>
</tr>
</tbody>
</table>

Result

You have created the ZFIELD, ZFIELDVALUE, ZTABLECONDITION, ZTABLEFIELDS, ZFIELDVALUES, and ZTABLEWHERE data types. Create now the RFC function module that uses the data types.

2.2 Creating the ZB1I_DATA_RETRIEVE RFC Module

To support the overall scenario, create the ZB1I_DATA_RETRIEVE RFC module in SAP ERP.

Procedure

1. From the SAP menu, choose Tools → ABAP Workbench → Development → Function Builder. Alternatively, call the SE37 transaction.
2. In the Function Builder: Initial Screen window, in the Function module field, enter ZB1I_DATA_RETRIEVE and choose Create.
3. In the Create Function Module dialog box, enter the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function group</td>
<td>&lt;name of function group&gt;</td>
<td>Choose an available function group. A function group contains a set of logically related function modules.</td>
</tr>
</tbody>
</table>
You can create a new function group, if you do not want to use an available one. The function group is an element for bundling function modules to distinguish them for different purposes; for example, for search abilities.

To create a new function group, in the Function Builder: Initial Screen window choose Goto → Function groups → Create group.

4. Save your entries and enter the next screen.

5. In the Function Builder: Change Maintain ZB1I_DATA_RETRIEVE window, choose the Attributes tab and enter the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote –Enabled Module</td>
<td>Select radio button</td>
<td>This is the processing type attribute of the function module, which turns the function module into an RFC module. If the function module is remote-enabled, you can only start the function module remotely from an external server.</td>
</tr>
<tr>
<td>Start immed.</td>
<td>Select radio button</td>
<td>The function module is processed immediately.</td>
</tr>
</tbody>
</table>

6. In the Function Builder: Change Maintain ZB1I_DATA_RETRIEVE window, choose the Import tab and enter the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter Name</td>
<td>DBTAB_NAME</td>
<td>ABAP associated type for an interface parameter. The associated type must be a global Dictionary type.</td>
</tr>
<tr>
<td>Typing</td>
<td>TYPE</td>
<td></td>
</tr>
<tr>
<td>Associated Type</td>
<td>TABNAME16</td>
<td></td>
</tr>
</tbody>
</table>
| Pass Value   | Select check mark | You pass the parameter with values. This means that the parameter contents are copied both when the parameter is
Customizing Data Distribution
Configuration in SAP ERP

7. Repeat the previous step to create the following parameter:
   - Parameter Name: MAXROWS
   - Typing: TYPE
   - Associated Type: INT4
   - Default Value: 0
   - Pass Value: √

   This parameter indicates how many rows are returned according to the number. This parameter is optional and for test mode. 0 means no limit, -1 means no real records returned.

   Define a low number because large data amounts from SAP ERP consume significant memory space.

8. In the Function Builder: Change Maintain ZB1I_DATA_RETRIEVE window, choose the Export tab and enter the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter Name</td>
<td>RETURNCNT</td>
<td></td>
</tr>
<tr>
<td>Typing</td>
<td>TYPE</td>
<td></td>
</tr>
<tr>
<td>Associated Type</td>
<td>INT4</td>
<td>ABAP associated type for an interface parameter. The associated type must be a global Dictionary type.</td>
</tr>
<tr>
<td>Pass Value</td>
<td>Select the checkbox</td>
<td>You pass the parameter with values. This means that the parameter contents are copied both when the parameter is passed and when it is transferred back to the calling parameter.</td>
</tr>
<tr>
<td>Short Description</td>
<td>&lt;value of short description&gt;</td>
<td>Example: Number of retrieved rows</td>
</tr>
</tbody>
</table>

9. In the Function Builder: Change Maintain ZB1I_DATA_RETRIEVE window, choose the Tables tab and enter the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter Name</td>
<td>TABLEFIELDS</td>
<td></td>
</tr>
<tr>
<td>Typing</td>
<td>TYPE</td>
<td>Type assignment to parameter</td>
</tr>
</tbody>
</table>
### Field Name | Field Value | Description
--- | --- | ---
Associated Type | ZTABLEFIELDS | Data type, which was declared previously in the step Defining Data Type and Elements. The associated type must be a global Dictionary type or exist in a type pool. In the latter case, the type pool must be declared in the function group.

Optional | Leave empty. | Do not select this checkmark.

Short Description | <value of short description> Example: Table fields returned from RFC | SAP Business One integration for SAP NetWeaver creates the corresponding structure map.

10. Repeat the previous step to maintain the following additional parameters:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Typing</th>
<th>Associated Type</th>
<th>Optional</th>
<th>Description</th>
</tr>
</thead>
</table>
| TABLEENTRIES | TYPE | ZFIELDVALUES |  | These are the output table values from the query according to columns specified in TABLEFIELDS. TABLEFIELDS, for example, has three columns A, B, C. After you execute the query, you get two rows: A B C a1 b1 c1 a2 b2 c2 FIELDVALUES has the values a1, b1, c1, a2, b2, c2 in sequence.
| TABLECONDITION | TYPE | ZTABLEWHERE | √ | Provide filter conditions in query. A condition is a tuple of the column name, operand, and value.

11. In the Function Builder: Change Maintain ZB1I_DATA_RETRIEVE window, choose the Exceptions tab and enter the following:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
</table>
| Exception | CD001 | Processing returns an exception, if the table called using the RFC function module does not exist in the SAP ERP client.
| Short Text | Table does not exist. | This is the short text to inform about the reason for exception.

12. In the Function Builder: Change Maintain ZB1I_DATA_RETRIEVE window, choose the Source code tab and copy the following code lines to the new RFC module:
FUNCTION ZB1I_DATA_RETRIEVE.

*"---------------------------------------------------------------------------------
*" ** Local Interface:
*" ** IMPORTING
*" **   VALUE(DBTAB_NAME) TYPE  TABNAME16 OPTIONAL
*" **   VALUE(MAXROWS) TYPE  INT4 DEFAULT 0
*" ** EXPORTING
*" **   VALUE(RETURNCNT) TYPE  INT4 OPTIONAL
*" ** TABLES
*" **   TABLEFIELDS TYPE  ZTABLEFIELDS
*" **   TABLEENTRIES TYPE  ZFIELDVALUES OPTIONAL
*" **   TABLECONDITION TYPE  ZTABLEWHERE OPTIONAL
*" ** EXCEPTIONS
*" **   CD001
*" "---------------------------------------------------------------------------------

{   REPLACE
1
*" **   VALUE(MAXROWS) TYPE  INT4 DEFAULT 0

}   REPLACE
{   EXPORTING
*" **   VALUE(RETURNCNT) TYPE  INT4 OPTIONAL

}   EXPORTING
*" ** TABLES
*" **   TABLEFIELDS TYPE  ZTABLEFIELDS
*" **   TABLEENTRIES TYPE  ZFIELDVALUES OPTIONAL
*" **   TABLECONDITION TYPE  ZTABLEWHERE OPTIONAL
*" ** EXCEPTIONS
*" **   CD001

*"---------------------------------------------------------------------------------

*{   INSERT
2

TYPES: t_src(80) TYPE C.
DATA: where_tab TYPE TABLE OF t_src, line TYPE t_src.
DATA:
tabname TYPE dd02l-tabname,
tabclass TYPE dd02l-tabclass,
tabfield type zfield-FIELDNAME,
itabfield type FIELDNAME,
tabcons type ZTABLECONDITION,
dref_str TYPE REF TO DATA.
FIELD-SYMBOLS: <fs_str> TYPE ANY,
<fs_com> TYPE ANY.
CREATE DATA dref_str TYPE (dbtab_name).
ASSIGN dref_str->' TO <fs_str>.

* Check if dbtab_name does exist or not
SELECT SINGLE tabname tabclass
INTO (tabname, tabclass)
FROM dd02l
WHERE tabname = dbtab_name AND
as4local = 'A' AND
tabclass IN ('TRANSP', 'CLUSTER', 'POOL').
IF sy-dbcnt = 0.
RAISE CD001.
ENDIF.

* Construct the where clause from TABLECONDITION
LOOP AT TABLECONDITION INTO tabcons.
DATA: field_name TYPE STRING,
    field_oper TYPE STRING,
    field_valu TYPE STRING.
MOVE tabcons-fieldname TO field_name.
MOVE tabcons-operand TO field_oper.
MOVE tabcons-value TO field_valu.
MOVE tabcons-fieldname to itabfield.
CONDENSE field_name.
CONDENSE field_oper.
CONDENSE field_valu.
perform check_table_structures using dbtab_name itabfield.
CONCATENATE field_name field_oper '' field_valu '' INTO line
SEPARATED BY SPACE.
APPEND line TO where_tab.
AT LAST.
EXIT.
ENDAT.
APPEND 'AND' TO where_tab.
ENDLOOP.

* Get fields for table
DATA: BEGIN OF dd03p_tab OCCURS 50.
INCLUDE STRUCTURE dfi.
DATA: END OF dd03p_tab.
DATA: typetab TYPE DDOBJNAME.
MOVE dbtab_name TO typetab.
CALL FUNCTION 'DDIF_FIELDINFO_GET'
EXPORTING
  tabname = typetab
TABLES
dfies_tab = dd03p_tab
EXCEPTIONS
not_found = 1.
LOOP AT dd03p_tab.
APPEND dd03p_tab-fieldname TO TABLEFIELDS.
ENDLOOP.
* Prepare the return count without raw records
DATA: t_bool TYPE i VALUE 0.
IF MAXROWS = -1.
MAXROWS = 0.
t_bool = 1.
ENDIF.
* Get rows
SELECT * FROM (dbtab_name) INTO <fs_str> UP TO MAXROWS ROWS
WHERE (where_tab) order by primary key.
DO.
ASSIGN COMPONENT SY-INDEX OF STRUCTURE <fs_str> TO <fs_com>.
IF SY-SUBRC <> 0. EXIT. ENDIF.
IF t_bool = 0.
APPEND <fs_com> TO TABLEENTRIES.
ENDIF.
ENDDO.
ENDSELECT.
MOVE SY-DBCNT TO RETURNCNT.
ENDFUNCTION.
*---------------------------------------------------------------------
* & Form check_table_structures
*---------------------------------------------------------------------
FORM check_table_structures using pa_src type TABNAME16
ifieldname type FIELDNAME.
DATA:
it_fields_src TYPE TABLE OF dd03l,
wa_field_src LIKE LINE OF it_fields_src,
wa_field_tar LIKE LINE OF it_fields_src,
lines TYPE sy-dbcnt.
SELECT *
FROM dd03l
INTO TABLE it_fields_src
WHERE tabname = pa_src AND
as4local = 'A'.
READ TABLE it_fields_src
INTO wa_field_src
WITH KEY fieldname = ifieldname.
IF sy-subrc <> 0.
MESSAGE e000(zah_nk)
WITH 'Field missing in target table:'(e05)
ifieldname.
ENDIF.
ENDFORM. "check_table_structures

*) INSERT

*) DELETE
*) ENDFUNCTION.
*) DELETE
*) REPLACE
*

*) REPLACE
13. To save the code, choose Save, and to activate the function module choose Activate.
3 Configuration in SAP Business One integration for SAP NetWeaver

3.1 Configuring the Customizing Products Distribution Scenario

You use the setup functions of scenarios to configure the sap.CDProduct scenario.

To set up the scenario, do the following:

- Select the scenario steps. You can distribute the following information:
  - Material or item groups
  - Plants, branches, warehouse definitions
- Select the sender systems.
- Select the receiver systems.
- Set up the filter definitions.

You can use either the existing integration framework functions or the setup wizard (Setup Wizard). The description below uses the setup wizard.

Procedure

1. To start SAP Business One integration for SAP NetWeaver, choose Start → All Programs → SAP Business One integration for SAP NetWeaver → SAP Business One integration for SAP NetWeaver.
2. To log on, in the B1i Administrative Login user interface, enter the user name and password.
3. To setup your scenario, choose Scenarios → Setup.
4. In the Scenario Package Identifier field, select the sap.CDProduct scenario package and choose (Setup Wizard).

The step Selection of Scenario Steps displays the scenario steps for the scenario package.

5. Choose the Activate checkbox for the following scenario steps and choose the Save button and choose Next.
   - For initial load always select: sap.cdpInitial
   - For delta load always select: sap.cdpTrigger
   - For material or item groups distribution, select: sap.R3T023T2B1OITB
   - For plants, branches, warehouse definition distribution, select: sap.R3T001W2B1OWHS
6. In the Senders section select your headquarters system. In the Receivers section, select all subsidiary SAP Business One systems and choose Next.

The headquarters system is the sender and all subsidiary systems are receivers in this scenario.

7. In the Filter Definition step, the integration framework displays all activated scenario steps for all selected sender and receiver systems.
   - Define filter criteria that are the same for all receiver systems in the Sender Filters section.
   - You can ignore this section for the scenario.
All scenario steps run on the receiver side. Therefore, in the Sender Receivers Filters section define filter criteria that are different for receiver systems.

By default all combinations are selected with the checkbox in front of each row. **Do not deselect any combination**, even if you do not define any filters for the combination. If you deselect any combination, the integration framework filters everything.

⚠️ **Caution**

Do not set filters for the `sap.cdpInitial` and `sap.cdpTrigger` scenario steps.

Set the following filter definitions:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Key</td>
<td><code>&lt;Language key&gt;</code>&lt;br&gt;Example: EN English</td>
<td>This is a language key in the SAP ERP system that enables access to the language-dependent values in the message, valid for the respective target subsidiary system. Values in the SPRAS field of the SAP ERP T002 customizing table are valid filter criteria entries. This is a mandatory field with the fixed operand equal to value.</td>
</tr>
<tr>
<td>Material group</td>
<td><code>&lt;SAP ERP material group key&gt;</code></td>
<td>The material group key combined with the language key is the primary key of the T023T customizing table. Values in the MATKL field of the SAP ERP T023T customizing table are valid filter criteria entries.</td>
</tr>
<tr>
<td>Plant</td>
<td><code>&lt;SAP ERP plant key&gt;</code></td>
<td>The plant key combined with the language key is the primary key of the T001W customizing table. Values in the WERKS field of the SAP ERP T001W customizing table are valid filter criteria entries.</td>
</tr>
</tbody>
</table>

Message filter (routing) criteria are fields that are available in messages for standard objects that SAP Business One integration for SAP NetWeaver processes from a source to a target system. Message filters can also be a combination of several fields of an object. Depending on the filter criteria field values, SAP Business One integration for SAP NetWeaver processes messages containing the values to the receiver systems and it filters all messages with content not complying with filter criteria values. The message log monitor displays these messages in the Filtered section.

To define filter values for the fields above, do the following:
### Customizing Data Distribution

**Configuration in SAP Business One integration for SAP NetWeaver**

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>To select a filter, click the … <em>(ellipsis)</em> button.</td>
<td></td>
</tr>
<tr>
<td>Operand</td>
<td>Equal to, Not Equal to, Greater Than, Less Than, Between, Not Between, Greater Than or Equal to, Less Than or Equal to, Contains, Equal to Blank, Is Not Blank</td>
<td></td>
</tr>
<tr>
<td>Filter from</td>
<td>&lt;string&gt;</td>
<td>If you have selected an operand, you must enter a value.</td>
</tr>
<tr>
<td>Filter to</td>
<td>&lt;string&gt;</td>
<td>You can only enter a value, if the operand is Between or Not Between.</td>
</tr>
</tbody>
</table>

8. You do not need to define global or local properties, or value mapping; choose Next until you reach the Scheduler step.

9. To finalize the scenario setup, choose Deploy.

10. To activate your scenario, choose the Activate button.

---

### 3.2 Configuring the Customizing Customer or Business Partner Distribution Scenario

You use the setup functions of scenarios to configure the `sap.CDBizPartner` scenario.

To set up the scenario, do the following:

- Select the scenario steps. You can distribute the following information:
  - Customer groups
  - Sales districts
  - Delivery priorities
  - Shipping conditions
- Select the sender systems.
- Select the receiver systems.
- Set up the filter definitions.

You can use either the existing integration framework functions or the setup wizard (2). The description below uses the setup wizard.

**Procedure**

1. To start SAP Business One integration for SAP NetWeaver, choose **Start → All Programs → SAP Business One integration for SAP NetWeaver → SAP Business One integration for SAP NetWeaver**.

2. To log on, in the **B1i Administrative Login** user interface, enter the user name and password.
3. To setup your scenario, choose *Scenarios → Setup*.

4. In the *Scenario Package Identifier* field, select the sap.CDBizPartner scenario package and choose (Setup Wizard).

   The *Selection of Scenario Steps* user interface displays the scenario steps.

5. Choose the *Activate* checkbox for the following scenario steps and choose the *Save* button and choose *Next*.
   - For initial load always select: sap.cdpInitial
   - For delta load always select: sap.cdpTrigger
   - For customer groups distribution, select: sap.R3T151T2B1OCR
   - For sales district distribution, select: sap.R3T171T2B1OTER
   - For delivery priority distribution, select: sap.R3TPRIT2B1OBPP
   - For shipping conditions distribution, select: sap.R3TVSBT2B1OSHP

6. In the *Senders* section select your headquarters system. In the *Receivers* section, select all subsidiary SAP Business One systems and choose *Next*.

   The headquarters system is the sender and all subsidiary systems are receivers in this scenario.

7. In the *Filter Definitions* step, the integration framework displays all activated scenario steps for all selected sender and receiver systems.
   - Define filter criteria that are the same for all receiver systems in the *Sender Filters* section.
     You can ignore this section for the scenario.
   - All scenario steps run on the receiver side. Therefore, in the *Sender Receivers Filters* section, define filter criteria that are different for receiver systems.
   - By default all combinations are selected with the checkbox in front of each row. *Do not deselect any combination*, even if you do not define any filters for the combination. If you deselect any combination, the integration framework filters everything.

   **Caution**
   
   Do not set filters for the sap.cdpInitial and sap.cdpTrigger scenario steps.

   Set the following filter definitions:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Group</td>
<td>&lt;Customer group key of SAP ERP&gt;</td>
<td>The customer group key combined with the language key is the primary key of the T151T customizing table. Values in the KDGRP field of the SAP ERP T151T customizing table are valid filter criteria entries.</td>
</tr>
<tr>
<td>Delivery Priority</td>
<td>&lt;Delivery priority key of SAP ERP&gt;</td>
<td>The delivery priority key combined with the language key is the primary key of the TPRIT customizing table. Values in the LPRIO field of the SAP ERP TPRIT customizing table are valid filter criteria entries.</td>
</tr>
</tbody>
</table>
### Field Name | Field Value | Description
--- | --- | ---
Language Key | <Language key>  
Example: EN English | This is a language key in the SAP ERP system that enables access to the language-dependent values in the message, valid for the respective target subsidiary system.  
Values in the SPRAS field of the SAP ERP T002 customizing table are the valid filter criteria entries.  
This is a mandatory field with the fixed operand equal to value.

Sales District | <Sales District of SAP ERP> | The delivery priority key combined with the language key is the primary key of the T171T customizing table.  
Values in the BZIRK field of the SAP ERP T171T customizing table are valid filter criteria entries.

Shipping Condition | <Shipping Condition key of SAP ERP> | The shipping condition key combined with the language key is the primary key of the TVSBT customizing table.  
Values in the VSBED field of the SAP ERP TVSBT customizing table are valid filter criteria entries.

Message filter (routing) criteria are fields that are available in messages for standard objects that SAP Business One integration for SAP NetWeaver processes from a source to a target system. Message filters can also be a combination of several fields of an object. Depending on the filter criteria field values, SAP Business One integration for SAP NetWeaver processes messages containing the values to the receiver systems and it filters all messages with content not complying with filter criteria values. The message log monitor displays these messages in the Filtered section.

To define filter values for the fields above, do the following:

| Field Name | Field Value | Description |
--- | --- | ---
Filter | To select a filter, click the ... (ellipsis) button. |

Operand | Equal to, Not Equal to, Greater Than, Less Than, Between, Not Between, Greater Than or Equal to, Less Than or Equal to, Contains, Equal to Blank, Is Not Blank |
8. Save your filter settings.
9. You do not need to define global or local properties, or value mapping; choose Next until you reach the Scheduler step.
10. To finalize the scenario setup, choose Deploy.
11. To activate your scenario, choose the Activate button.

### 3.3 Triggering the Scenarios

To trigger the Customizing Data Distribution scenarios in SAP Business One integration for SAP NetWeaver, the scenario administration provides initial load and delta load functions. The scenarios run one time after you have triggered them. Each time, you want to start the scenarios, you must trigger them again.

#### Prerequisites

- You have set up the scenario.
- You have activated the scenario.

#### Procedure

1. To trigger the scenario, choose Scenarios → Setup.
2. In the Scenario Package Identifier field, select `sap.CDBizPartner` or `sap.CDProduct` and choose the Scenario Administration button.
3. In the Customizing Data user interface, you have the following options for an active scenario package:
   - To trigger the initial data load, choose the Initial Load button.
     - SAP Business One integration for SAP NetWeaver deletes all records in the corresponding tables in the SAP Business One company database and loads the records from SAP ERP to SAP Business One.
   - To trigger a delta load, choose the Delta Load button.
     - SAP Business One integration for SAP NetWeaver updates the corresponding tables in the SAP Business One company database. It inserts new SAP ERP records into SAP Business One tables and it updates existing records in SAP Business One, with changes in SAP ERP.
   - To refresh information about the initial or delta load in the Last Run Time and Processing Status fields, choose the Refresh button.
   - To display the keys that have been mapped in the scenario for customizing data, choose the Mapping button.
If the processing status is in process, or displays the percentage of already processed data, the *Initial Load* and *Delta Load* buttons are inactive.
## 4 Mapping Table for Customizing Tables

### Customer Groups

<table>
<thead>
<tr>
<th>SAP ERP Customizing Table</th>
<th>SAP ERP Values</th>
<th>SAP Business One Value Table</th>
<th>SAP Business One Default Values</th>
<th>Algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td>T151T</td>
<td></td>
<td>OCRG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers:</td>
<td></td>
<td>Customer Groups</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customer Groups</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRAS - Key</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KDGRP - Key</td>
<td></td>
<td>Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KTEXT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Code - Key (read-only)**
- Filter criteria as language key
- Concatenated KDGRP+KTEXT to Name, with a space between for information

### Shipping Conditions

<table>
<thead>
<tr>
<th>SAP ERP Customizing Table</th>
<th>SAP ERP Values</th>
<th>SAP Business One Value Table</th>
<th>SAP Business One Default Values</th>
<th>Algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVSBT</td>
<td></td>
<td>OSHP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Conditions</td>
<td></td>
<td>Shipping types</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRAS - Key</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VSBED - Key</td>
<td></td>
<td>Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VSTEXT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Code - Key (read-only)**
- Filter criteria as language key
- Concatenated VSBED+KTEXT to Name with a space in between, for information

- Name
### Customizing Table: Delivery Priorities

<table>
<thead>
<tr>
<th>SAP ERP Customizing Table</th>
<th>SAP ERP Values</th>
<th>SAP Business One Value Table</th>
<th>SAP Business One Default Values</th>
<th>Algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPRIT</td>
<td></td>
<td>OBPP Business partner priorities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers: Delivery Priorities</td>
<td></td>
<td>SPRAS - Key</td>
<td>Priority Key</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LPRIO - Key</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BEZEI</td>
<td>Priority description</td>
<td></td>
</tr>
</tbody>
</table>

### Customizing Table: Sales Districts

<table>
<thead>
<tr>
<th>SAP ERP Customizing Table</th>
<th>SAP ERP Values</th>
<th>SAP Business One Value Table</th>
<th>SAP Business One Default Values</th>
<th>Algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td>T171T</td>
<td></td>
<td>OTER Territories</td>
<td>TerritoryID - Key (read-only)</td>
<td></td>
</tr>
<tr>
<td>Including language dependent Texts Sales Districts</td>
<td></td>
<td>SPRAS - Key</td>
<td>Filter criteria as language key</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BZIRK - Key</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BZTEXT</td>
<td>Concatenated BZIRK + BZTXT to Description with a space in between - for information</td>
<td></td>
</tr>
</tbody>
</table>
## Material Groups

<table>
<thead>
<tr>
<th>SAP ERP Customizing Table</th>
<th>SAP ERP Values</th>
<th>SAP Business One Value Table</th>
<th>SAP Business One Default Values</th>
<th>Algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td>T023T Material group</td>
<td>OITB ItemGroups</td>
<td></td>
<td></td>
<td>Number - Key (read-only)</td>
</tr>
<tr>
<td>SPRAS - Key</td>
<td></td>
<td></td>
<td></td>
<td>Filter criteria as language key</td>
</tr>
<tr>
<td>MATKL - Key</td>
<td>GroupName</td>
<td></td>
<td></td>
<td>Concatenated MATKL + KTEXT to GroupName, with a space between for information</td>
</tr>
<tr>
<td>WGBEZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Plants or Branches

<table>
<thead>
<tr>
<th>SAP ERP Customizing Table</th>
<th>SAP ERP Values</th>
<th>SAP Business One Value Table</th>
<th>SAP Business One Default Values</th>
<th>Algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td>T001W Plants/Branches</td>
<td>OWHS Warehouses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WERKS - Key</td>
<td>WarehouseCode - Key</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRAS</td>
<td></td>
<td></td>
<td></td>
<td>Filter criteria as language key</td>
</tr>
<tr>
<td>NAME1</td>
<td>WarehouseName</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STRAS</td>
<td>Street</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSTLZ</td>
<td>ZipCode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORTO1</td>
<td>City</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAND1</td>
<td>Country</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REGIO</td>
<td>State</td>
<td></td>
<td></td>
<td>Processing distributes Region before warehouses are created. Processing locates the Region and creates a corresponding entry in the region</td>
</tr>
<tr>
<td>SAP ERP Customizing Table</td>
<td>SAP ERP Values</td>
<td>SAP Business One Value Table</td>
<td>SAP Business One Default Values</td>
<td>Algorithm</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------------</td>
<td>-----------------------------</td>
<td>-------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>T005S</td>
<td></td>
<td>OCST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Region Key</td>
<td></td>
<td>State</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAND1 - Key</td>
<td></td>
<td>Country – Key</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLAND - Key</td>
<td></td>
<td>Code - Key</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Only these regions in T001W are distributed.

Name = BLAND