

Using the Configurable Subscenario for Automated Monitoring in Process Control 10.0



Applies to:

SAP® Process Control 10.0

Summary

This User Guide provides information about the Configurable subscenario's architecture, implementation requirements, configuration instructions, and use cases for the Automated Monitoring scenario of the process control application.

Author(s):

Team: Governance, Risk, and Compliance

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Document History

Document Version	Description
1.00	Initial release
1.10	Included reference to Creating Connectors in PC10.0 document
1.20	Added the definition of SCU3 Handler Added notes emphasizing the significance of the 'valid from' date of data sources and business rules
1.30	Redacted potentially sensitive data

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
<code>Example text</code>	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.
<code>EXAMPLE TEXT</code>	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
4.1	Configuration Steps	2
4.2	Setup the Data Source	3
4.3	Setup the Business Rule	19
4.4	Assign the Business Rule to the Control	32
4.5	Create a Job in Automated Monitoring.....	34
4.6	View the Job Result in Job Monitor	38
5.	Comments and Feedback	40
6.	Copyright.....	41

1. Business Scenario

The Configurable Business Rule is one of the key features in the process control application; it enables users to monitor several database tables through Continuous Monitoring without working on a NetWeaver system. The configured structure is stored as a Data Source in Process Control; therefore, no additional effort is needed on the Engineering Change Case (ECC) system.

2. Background Information

The Configurable Data Source collects the table relationships from the plug-in (similar to the table view in the ABAP Data Dictionary) at the Data Source User Interface and then establishes, validates, and stores the relationship implementation data for the Configurable subscenario.

3. Prerequisites

The system requirements for the Configurable subscenario are as follows:

- Process Control 10.0
- SAP NetWeaver system (620 to 7.10) with SAP GRC 10.0 NW Plug-In installed

You have completed the following master data:

- You have created and configured Regulation(s)
- You have created Corporation and Organizational Units
- You have created the Central Process, Subprocess, and Controls
- You have assigned proper Regulation(s) to the Control
- You have assigned Subprocesses or Controls to the appropriate Organizational Unit

4. Step-by-Step Procedure

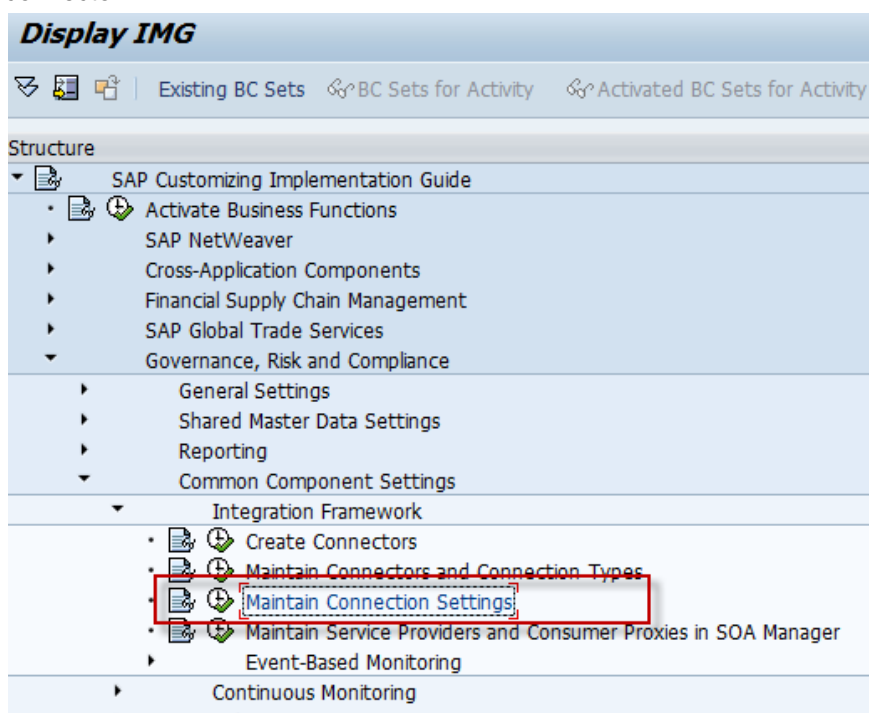
Process Overview

Component	Action	Comment	Optional/ Required
SAP NetWeaver	SAP GRC NW Plug-in SP01 and above.	Install the GRC 10.0 NW plug-in in the NetWeaver system to be monitored.	Required
Process Control	Configure the controls, the Data Source, and the Business Rule in the Process Control front end.	For more information, see the <i>Configure Process Control Front End</i> section. For more information about configuring the connectors in the IMG, refer to the Creating Connectors in PC10.0 document.	Required

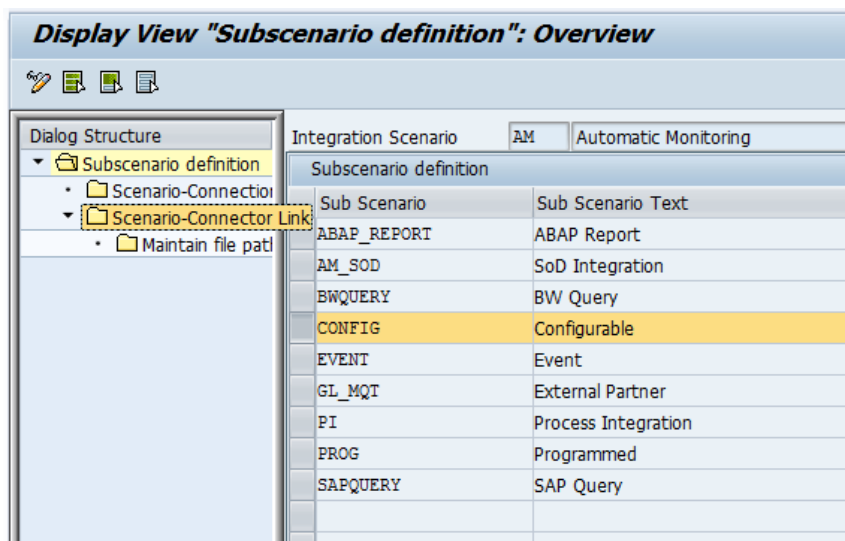
4.1 Configuration Steps

The following are post-installation steps:

1. Configure the system connectors.
 - a. In the NetWeaver plug-in system, enter transaction code **SM59**. Create a Type 3 connector.
 - b. In the Process Control (PC) system, enter transaction code **SM59**. Create a Type 3 connector.



- c. Go to the IMG node *Maintain Connection Settings*. Select the Integration Scenario *AM*.

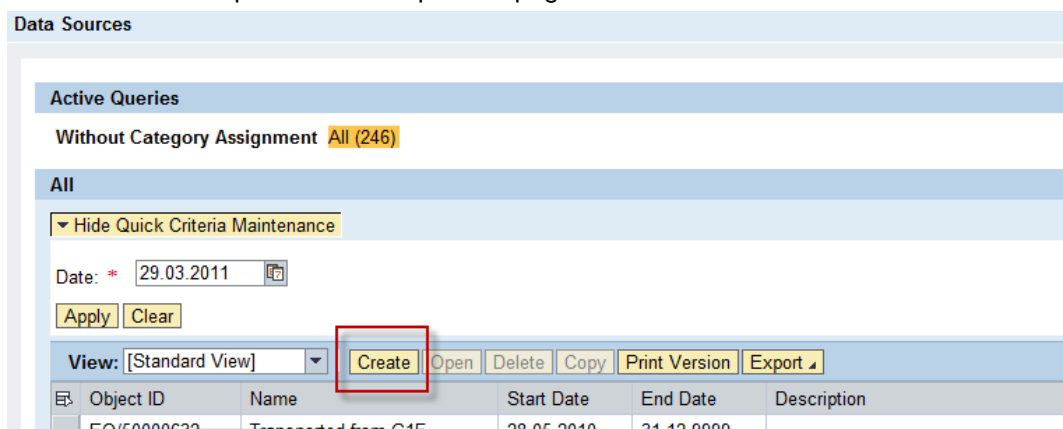


- d. Select the *Configurable* subscenario, and then choose *Scenario-Connector Link*.
- e. Add the connector that you created in step 2 into the table, and then choose *Save*.


4.2 Setup the Data Source

To setup the data source,

1. Log in to the GRC Suite via the NetWeaver Business Client (NWBC) or the Portal with the role Data Source Specialist assigned and go to *Rule Setup > Data Sources*.
2. Choose the *Create* pushbutton to open the page to create a new Data Source.



3. Enter a name for the Data Source and other required fields. Choose the *Object Field* tab to go to the next page.

 **NOTE:** Ensure that the *Valid From* date is correct. We recommend that you set it as the 'valid from' date of the master data.

Data Source | Hist

Timeframe 29.03.2011 ID 50009773 Last Modified On

Save Close

General Object Field Connector Attachments and Links

General

Data Source: * Valid From: * 29.03.2011

Description: Valid To: * 31.12.9999

Status: New

Search Term

Term 1: Term 2: Term 3: Term 4: Term 5:

Save Close

- In the Subscenario field, select the *Configurable* subscenario from the dropdown list. In the Parameters section, select the Main Connector you defined in the IMG to connect to the NetWeaver system from the pop-up screen. Choose *Main Table Lookup*.

Data Source

Timeframe 06.04.2011 ID 50009885 Last Modified On

Save Close

General **Object Field** Adhoc Query Connector Attachments and Links

Sub Scenario

Sub Scenario: * Configurable Connection Type: * SAP System

Parameters

Main Connector:

Main Table:

Fields

Save Close

- Select the *Table Type* to define the main table type for the Data Source. The configurable Data Source supports the following table types:

- Transparent table
- Cluster table
- Pooled table

Cluster or pooled tables can support only one table in the Data Source. Join conditions and related tables are supported only for transparent tables.

- Next, search for the table you seek by using the table name or a part of the table description. Both name and description search fields support wildcards, so you can search for tables even if you only remember a part of the name or description. Choose *Apply*, and the system looks up tables which match the name or description patterns you have entered.

If the search pattern you enter is not specific enough (for example, you enter “*” for the name), it may take the system a long time to respond—the more specific your search pattern, the faster the response.

- Once the system responds with table names matching your search string(s), select the table you want and choose *OK*.

The screenshot shows the 'Data Source' configuration window. The 'Lookup' dialog is open, displaying a table with columns 'Table Name' and 'Description'. The 'Table Type' dropdown is set to 'Transparent table'. The dialog also includes 'Apply', 'Clear', 'OK', and 'Cancel' buttons.

8. In the *Fields* section, select the fields you want to include, from all the fields available in the table to be queried. Choose *Select Additional Table Fields* to add fields for the Data Source.

The screenshot shows the 'Data Source' configuration window with the 'Fields' section selected. The 'Sub Scenario' is set to 'Configurable' and the 'Connection Type' is 'SAP System'. The 'Main Connector' is 'GI7600' and the 'Main Table' is 'AUAV'. The 'Fields' section displays a table with columns: Field ID, Source Table, Source Field, Key, Field Type, Ref Field ID, Amount or Quantity, and Field Description. A button labeled 'Select Additional Table Fields' is visible above the table.

i.

Data Source
Timeframe 06.04.2011 ID 50009885 Last Modified On

General **Object Field** Adhoc Query Connector Attachments and Links

Sub Scenario
Sub Scenario: * Configurable

Parameters
Main Connector: GI7600
Main Table: AUAV

Fields
AUAV

Table-Field	Field Description
AUAV-BELNR	Number of a settlement document
AUAV-COBEL	Document Number
AUAV-FIBEL	Accounting Document Number
AUAV-KOKRS	Controlling Area
AUAV-LFDNR	Sequence number (three characters)
AUAV-MANDT	Client
AUAV-VRGNG	CO Business Transaction

9. Select the required fields and move them from the left column to the right column. The *Single/Multiple* and *Select All* functions are available in the field-selection page.

Data Source
Timeframe 06.04.2011 ID 50009885 Last Modified On

General **Object Field** Adhoc Query Connector Attachments and Links

Sub Scenario
Sub Scenario: * Configurable


Parameters
Main Connector: GI7600
Main Table: AUAV

Fields
AUAV

Table-Field	Field Description
AUAV-KOKRS	Controlling Area
AUAV-LFDNR	Sequence number (three characters)
AUAV-MANDT	Client
AUAV-VRGNG	CO Business Transaction

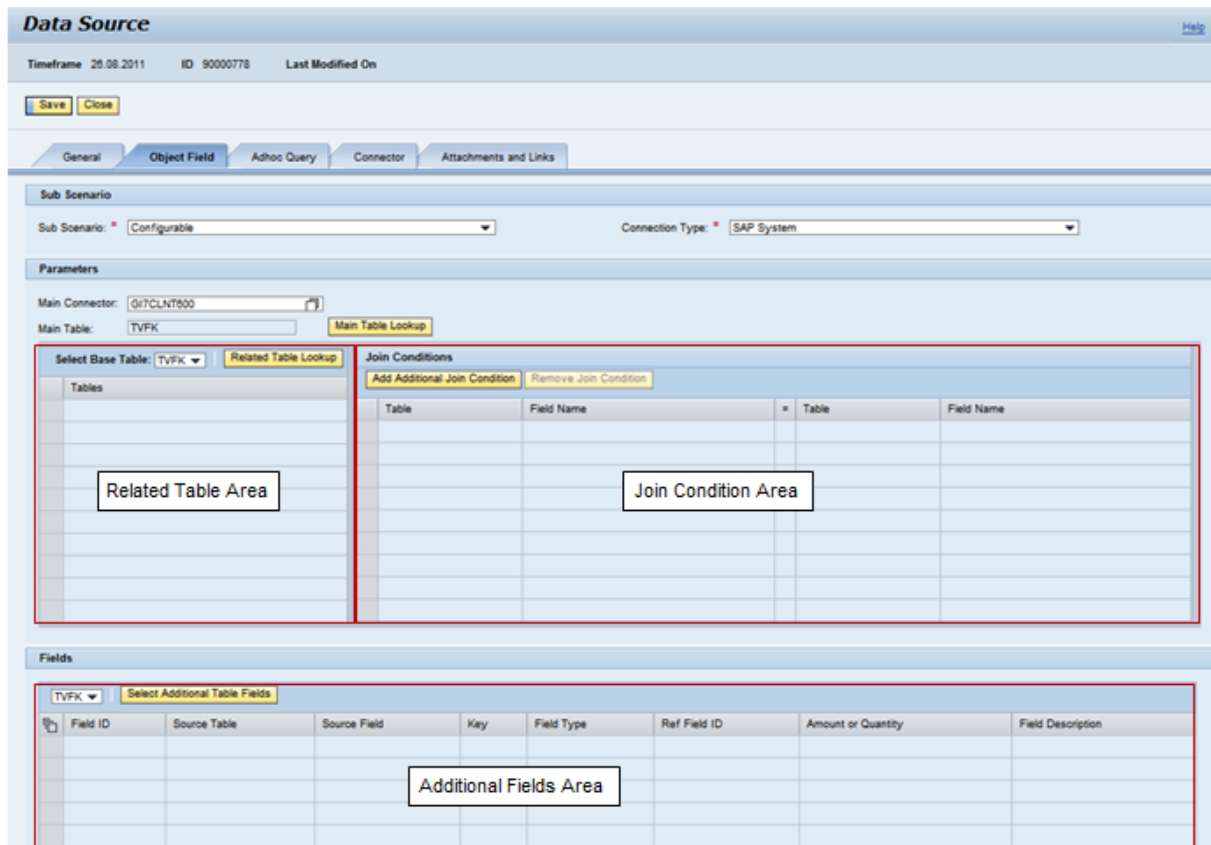
Table-Field	Field Description
AUAV-BUKRS	Company Code
AUAV-COBEL	Document Number
AUAV-FIBEL	Accounting Document Number
AUAV-BELNR	Number of a settlement document

10. After you have completed the field selection, choose **OK**.

 It is recommended that all available fields of one table be added into a single data source. This will improve the reusability of the Data Source without impacting performance.

To create a data source querying a transparent table,

- i. Select the required main table (of type “Transparent”), and then click *OK*.
- ii. The following areas appear after you have selected a main table:
 - Related Table Lookup
 - Join Conditions
 - Select Additional Fields



Data Source

Timeframe: 26.08.2011 ID: 90000778 Last Modified On

Save Close

General **Object Field** Adhoc Query Connector Attachments and Links

Sub Scenario

Sub Scenario: Configurable Connection Type: SAP System

Parameters

Main Connector: G17CLNT900

Main Table: TVFK Main Table Lookup

Select Base Table: TVFK Related Table Lookup

Join Conditions

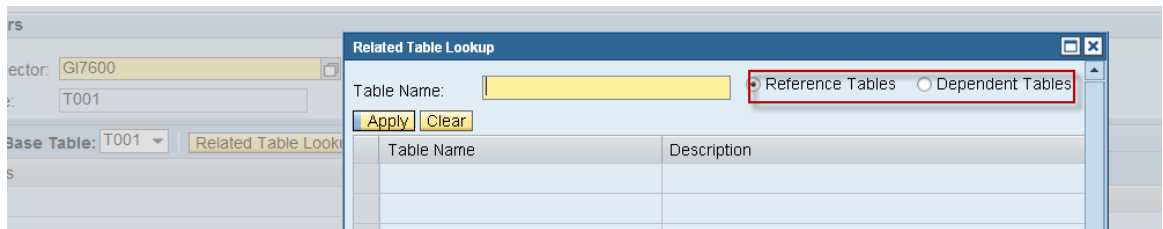
Table	Field Name	=	Table	Field Name


Fields

TVFK Select Additional Table Fields

Field ID	Source Table	Source Field	Key	Field Type	Ref Field ID	Amount or Quantity	Field Description

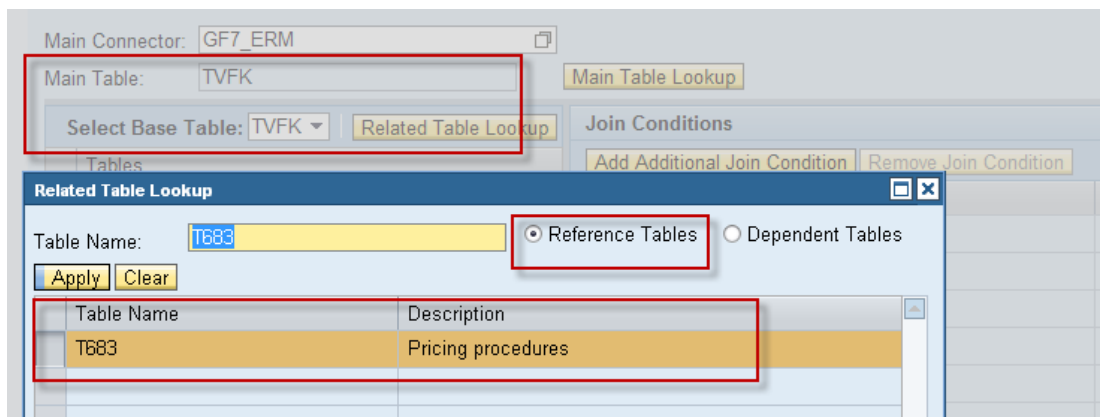
- iii. Enter the base table first. Any related tables will become available for selection. By default, the base table is the main table.
- iv. Related tables can be created by choosing the *Related Table Lookup* or *Add Additional Join Condition* pushbuttons.
- v. The table list for related table lookup is retrieved from the relations of the check tables defined in the data dictionary (DDIC) of the Netweaver system used in the main connector.
- vi. There are two types of related tables according to the DDIC:
 - Reference tables
 - Dependent tables



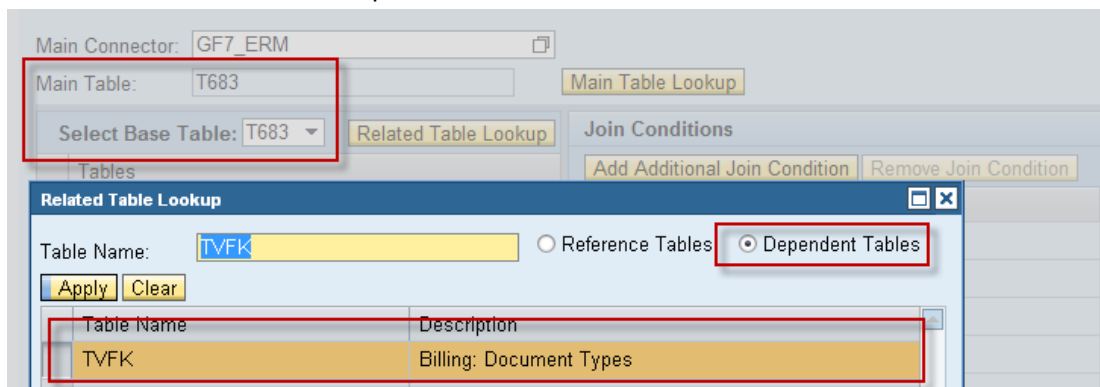
 Table TVFK has a check table T683 on field KALSMC in the DDIC definition.

Transp. Table	TVFK	Active			
Short Description	Billing: Document Types				
<div>Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields</div>					
<div><div></div><div> Search Help</div><div>16 / 86</div></div>					
Field	Data element	Data T... Foreign ... Check table	Origin of the input help	Srch Help	D... Domain
PARGP	PARGP	CHAR	<input type="checkbox"/>		<input type="checkbox"/> PARGP
KALSMC	KALSMC	CHAR	<input checked="" type="checkbox"/> T683	Input help implemented with c...	<input type="checkbox"/> KALSM

This makes T683 a reference table of the main table TVFK.



At the same time, TVFK is a dependent table of base table T683.



- vii. Related Table Lookup has a search function. Enter a table name, and then choose OK. The search results will appear.

Related Table Lookup

Table Name: ☐ Reference Tables ☒ Dependent Tables

Table Name	Description
Search Results	
TVFKT	Billing: Document Types: Texts

- viii. The newly added related table will be listed in the Related Table column and the join conditions will be automatically generated in the Join Condition column. The fields used in the join condition will also be automatically be added into the field list in the Field column. Those fields cannot be removed unless the join condition is removed first.

Data Source

Timeframe: 06.04.2011 ID: 50009887 Last Modified On

General **Object Field** Adhoc Query Connector Attachments and Links

Sub Scenario

Sub Scenario: * Configurable Connection Type: * SAP System

Parameters

Main Connector: GF7_ERM

Main Table: TVFK

Select Base Table: TVFK

Table	Field Name	=	Table	Field Name
TVFK	FKART	=	TVFKT	FKART
TVFK	MANDT	=	TVFKT	MANDT

Fields

Field ID	Source Table	Source Field	Key	Field Type	Ref Field ID	Amount or Quantity	Field Description
00000001	TVFK	TVFK-FKART	<input checked="" type="checkbox"/>	C	00000000		Billing Type
00000003	TVFK	TVFK-MANDT	<input checked="" type="checkbox"/>	C	00000000		Client

- ix. If the newly added related table is a Reference Table, it will also be added into the reference table list.

Main Table: TVFK Main Table Lookup

Select Base Table: TVFK Related Table Lookup

Table Name: T683 ☒ Reference Tables ☐ Dependent Tables

Apply Clear

Table Name	Description
T683	Pricing procedures

Parameters

Main Connector: GF7_ERM Main Table: TVFK Main Table Lookup

Select Base Table: TVFK Related Table Lookup

Tables
TVFK
TVFKT
T683

Join Conditions

Table	Field Name
T683	KALSM

- x. However the main table definition might have multiple fields with check table relations, and multiple fields with the same check table relations. In this case, multiple relations will be proposed from several fields to one single field. Since this type of join condition cannot work, the system will ask the user to do manual maintenance of the join conditions. Otherwise, only one of the join conditions may be saved when Data Source is saved.

Table TVFK has multiple fields linked to check table T683 field KALSM in the DDIC.

Transp. Table	TVFK	Active			
Short Description	Billing: Document Types				
Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields					
16 / 86					
Field	Data element	Data T... Foreign ... Check table	Origin of the input help	Srch Help	D... Domain
PARGP	PARGP	CHAR <input type="checkbox"/>			<input type="checkbox"/> PARGP
KALSMC	KALSMC	CHAR <input checked="" type="checkbox"/> T683	Input help implemented with c...		<input type="checkbox"/> KALSM
FKARTS	FKARTS	CHAR <input checked="" type="checkbox"/> TVFK	Input help implemented with c... H TVFK		<input type="checkbox"/> FKART
TXTGR	TXTGR	CHAR <input checked="" type="checkbox"/> ITXG	Input help implemented with c... H ITXG		<input type="checkbox"/> TXTGR
KAPPL	NA_KAPPL	CHAR <input checked="" type="checkbox"/> T681A	Input help implemented with c... CSH T681A		<input type="checkbox"/> KAPPL
KALSM	KALSMB	CHAR <input checked="" type="checkbox"/> T683	Input help implemented with c...		<input type="checkbox"/> KALSM
KSCHL	NA_KSCHL	CHAR <input type="checkbox"/>	Explicit search help attache...	CSH_NA_KSCHL	<input type="checkbox"/> KSCHL
STAFO	STAFO	CHAR <input type="checkbox"/>			<input type="checkbox"/> STAFO
KVSLV	KVSLV	CHAR <input checked="" type="checkbox"/> T687	Input help implemented with c... H T687		<input type="checkbox"/> KVSCHL
KALVG	KALVG	CHAR <input checked="" type="checkbox"/> TVKV	Input help implemented with c... H TVKV		<input type="checkbox"/> KALVG
TXTGR_P	TXTGR_P	CHAR <input checked="" type="checkbox"/> ITXG	Input help implemented with c... H ITXG		<input type="checkbox"/> TXTGR
STATI	STATI	CHAR <input type="checkbox"/>	Input help with fixed values		<input checked="" type="checkbox"/> XFELD
KALSMBP	KALSMBP	CHAR <input checked="" type="checkbox"/> T683	Input help implemented with c...		<input type="checkbox"/> KALSM
BORVF	BORVF	CHAR <input type="checkbox"/>	Input help with fixed values		<input checked="" type="checkbox"/> XFELD

When multiple join conditions are proposed, a system warning message appears.

Data Source

Timeframe: 06.04.2011 ID: 50009887 Last Modified On

⚠ Redundant Join Conditions proposed; manual maintenance required

Save Close

General **Object Field** Adhoc Query Connector Attachments and Links

Sub Scenario

Sub Scenario: * Configurable Connection Type: * SAP System

Parameters

Main Connector: GF7_ERM

Main Table: TVFK **Main Table Lookup**

Select Base Table: TVFK **Related Table Lookup**

Table	Field Name	=	Table	Field Name
T683	KALSM	=	TVFK	KALSM
T683	KALSM	=	TVFK	KALSMBP
T683	KALSM	=	TVFK	KALSMC
T683	KALSM	=	TVFK	KALSMCA
T683	KALSM	=	TVFK	KALSMCB
T683	KALSM	=	TVFK	KALSMCC
T683	KALSM	=	TVFK	KALSMCD
T683	KAPPL	=	TVFK	KAPPL
T683	MANDT	=	TVFK	MANDT

- xi. Selecting the join condition enables the *Remove Join Condition* pushbutton and users can now do manual maintenance to the join conditions.

💡 If all the join conditions from one related table to the base table are removed, the related table will be removed from the related table list. All of its fields are also removed.

💡 Only tables from *Related Table Lookup* can be removed in Related Table Lookup popup; any tables from *Add Additional Join Condition* cannot be found in the Related Table Lookup popup.

- xii. If the base table does not have any check table relationships with another table, use the *Add Additional Join Condition* function to add that table as a related table of the base table.

Main Connector: GF7_ERM

Main Table: TVFK **Main Table Lookup**

Select Base Table: TVFK **Related Table Lookup**

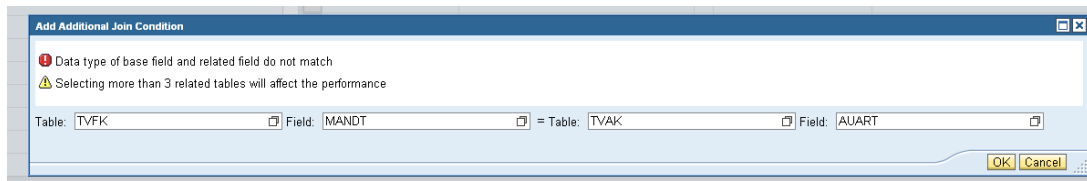
Join Conditions

Add Additional Join Condition

Table: Field: = Table: Field:

OK Cancel

- xiii. The left-side table value range includes all tables already selected. Use the right-side table to input the related table. It can be any table from the connected NetWeaver system (except the base table selected in the left). The system will automatically check if the two fields match.



Add Additional Join Condition

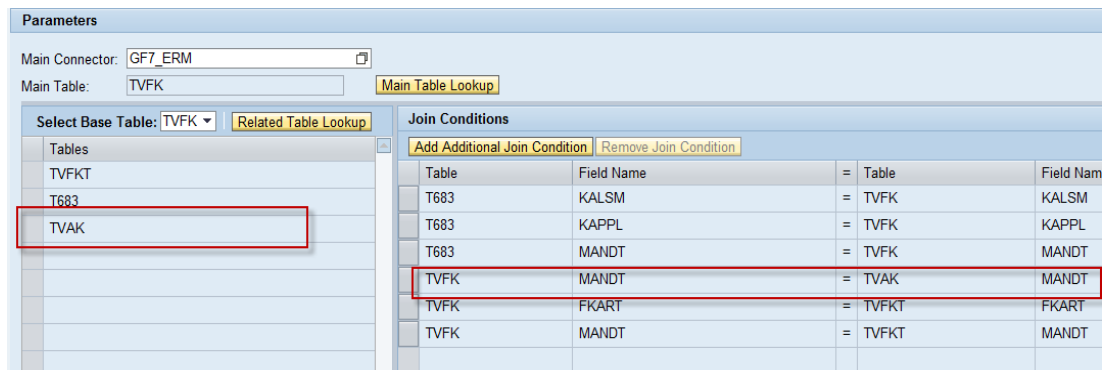
! Data type of base field and related field do not match
 ! Selecting more than 3 related tables will affect the performance

Table: TVFK Field: MANDT = Table: TVAK Field: AUART

OK Cancel

- xiv. The new table added with the *Add Additional Join Condition* function will also be shown as a related table.

 All input fields in the *Add Additional Join Condition* function can be also searched using wildcards.



Parameters

Main Connector: GF7_ERM
 Main Table: TVFK Main Table Lookup

Select Base Table: TVFK Related Table Lookup

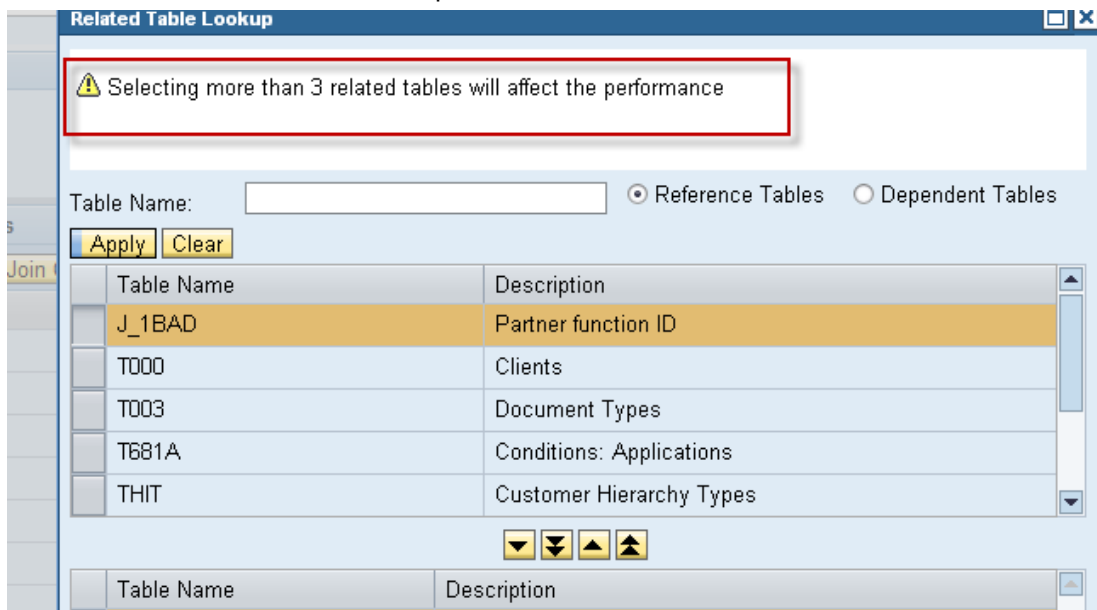
Tables

TVFKT
T683
TVAK

Join Conditions

Table	Field Name	=	Table	Field Name
T683	KALSM	=	TVFK	KALSM
T683	KAPPL	=	TVFK	KAPPL
T683	MANDT	=	TVFK	MANDT
TVFK	MANDT	=	TVAK	MANDT
TVFK	FKART	=	TVFKT	FKART
TVFK	MANDT	=	TVFKT	MANDT

- xv. When adding three or more tables, either as related tables or additional tables, the system will return the warning message "Selecting more than 3 related tables will affect the performance".



Related Table Lookup

! Selecting more than 3 related tables will affect the performance

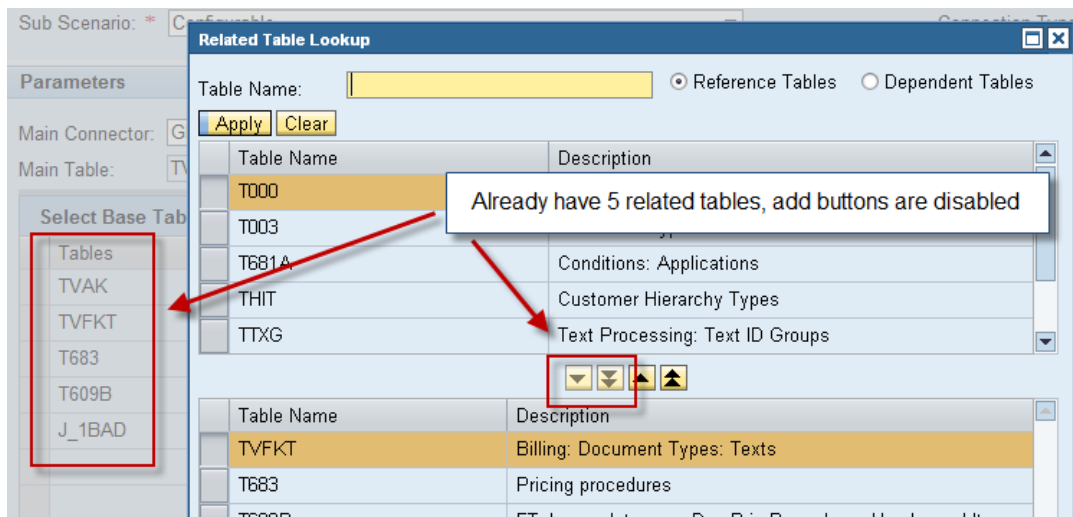
Table Name: Reference Tables Dependent Tables

Apply Clear

Table Name	Description
J_1BAD	Partner function ID
T000	Clients
T003	Document Types
T681A	Conditions: Applications
THIT	Customer Hierarchy Types

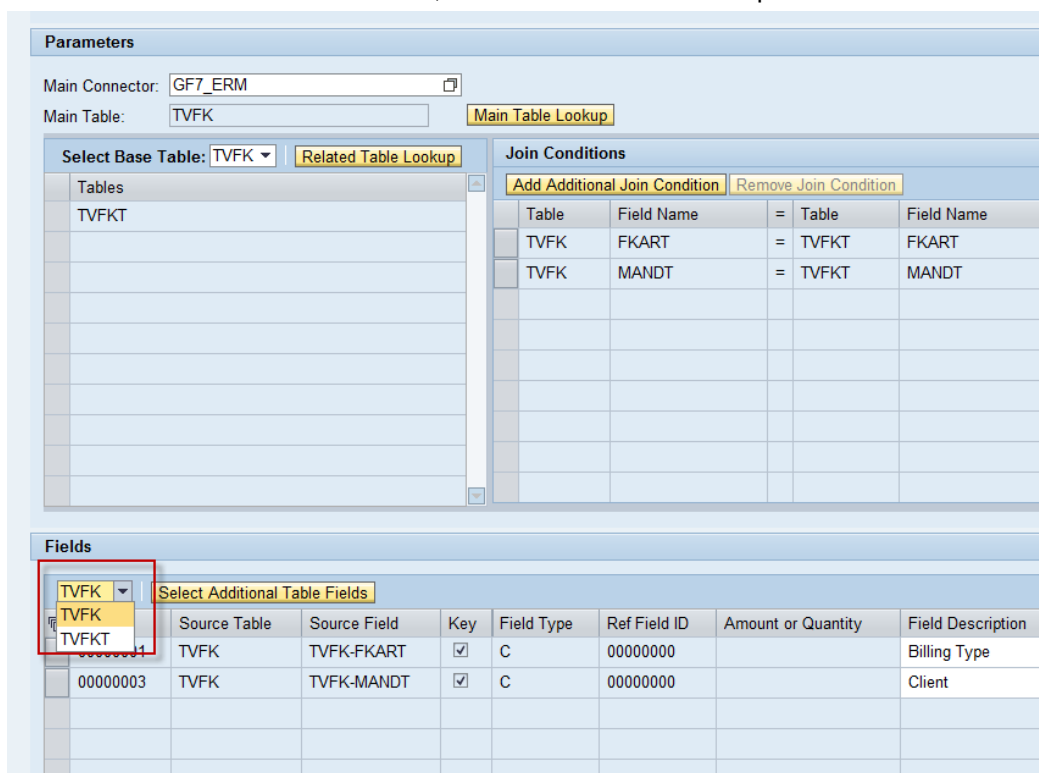
Table Name Description

- xvi. The configurable data source currently supports up to five related tables. Adding more than five tables is not allowed.

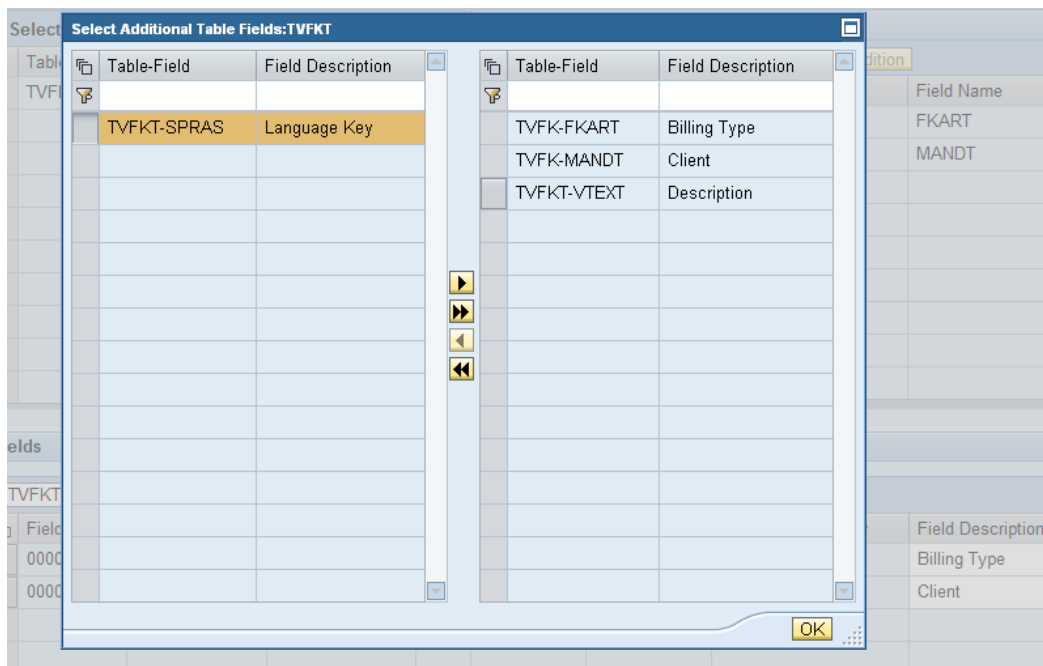



Only transparent tables are listed in the *Related Table Lookup* and *Add Additional Join Condition* columns.

xvii. In the *Fields* column, select a table from the dropdown list.



xviii. Choose the *Select Additional Table Fields* pushbutton to open the pop up and then select the table fields.



 If any currency/quantity fields are selected, the corresponding currency key or unit of measure field must be added to be consistent with the table definition in the connected NetWeaver system; otherwise, a warning message will appear.

Transp. Table: BSIK Active
Short Description: Accounting: Secondary Index for Vendors

Attributes | Delivery and Maintenance | Fields | Entry help/check | **Currency/Quantity Fields**

22 / 183

Field	Data element	Data T...	Reference table	Ref. field	Short Description
GSBER	GSBER	CHAR			Business Area
MWSKZ	MWSKZ	CHAR			Sales Tax Code
DMBTR	DMBTR	CURR	<u>T001</u>	<u>WAERS</u>	Amount in Local Currency
WRBTR	WRBTR	CURR	<u>BSIK</u>	<u>WAERS</u>	Amount in document currency
MWSTS	MWSTS	CURR	<u>T001</u>	<u>WAERS</u>	Tax Amount in Local Currency
WMWST	WMWST	CURR	<u>BSIK</u>	<u>WAERS</u>	Tax amount in document currency
BDIFF	BDIFF	CURR	<u>T001</u>	<u>WAERS</u>	Valuation Difference
BDIF2	BDIF2	CURR	<u>BKPF</u>	<u>HWAE2</u>	Valuation Difference for the Second Local Curren
SGTXT	SGTXT	CHAR			Item Text
PROJN	PROJN	CHAR			Old: Project number : No longer used -> PS_POS

Main Connector: GF7_ERM
Main Table: BSIK

Select Base Table: BSIK

Join Conditions

Select Additional Table Fields:BSIK

Reference field T001-WAERS must be selected first for field BSIK-DMBTR

Table-Field	Field Description
*DMBTR	
BSIK-DMBTR	Amount in Local Currency

If the reference field already exists in the selected table (for example, the *BSIK* table), the reference field will be added automatically when adding the original field.

Main Connector: GF7_ERM
Main Table: BSIK

Select Base Table: BSIK

Join Conditions

Select Additional Table Fields:BSIK

Reference fields are added automatically

Table-Field	Field Description
*WRBTR	
BSIK-WRBTR	Amount in document currency
BSIK-WAERS	Currency Key

- ↑ It is recommended that all available fields of one table be added into a single data source. This will improve the reusability of the data source without impacting performance.
- 💡 The selected fields from the connected NetWeaver system might contain the namespace as a prefix. If the namespace is not installed in current system, warning messages will appear, to advise the user to install the required namespace first when saving the data source or executing an ad hoc query.

Data Source [Help](#)

Timeframe: 07.04.2011 ID: 50009913 Last Modified On:

Field /BEV1/LULDEGRP contains missing namespace /BEV1/, please apply note 1567230

Save Close

General Object Field Adhoc Query Connector Attachments and Links

Sub Scenario

Sub Scenario: * Configurable Connection Type: * SAP System

Parameters

Main Connector: GF7_ERM

Main Table: MARA Main Table Lookup

Select Base Table: MARA Related Table Lookup

Tables

Join Conditions

Add Additional Join Condition
Remove Join Condition

Table	Field Name	=	Table	Field Name

Fields

MARA Select Additional Table Fields

Field ID	Source Table	Source Field	Key	Field Type	Ref Field ID	Amount or Quantity	Field Description
00000001	MARA	MARA-/BEV1/LULDEGRP		C	00000000		Loading Unit Group: IS Beverage
00000002	MARA	MARA-/MPOS-REF-UN		C	00000000		Loading Unit Group: IS Beverage

Detailed instructions for installing a namespace can be found in SAP note 1567230.

6. After Object Field tab maintenance is finished, you can test the Data Source by selecting the *Ad hoc Query* tab.
 - a. Select the Target Connector and enter the maximum number of resulting rows to retrieve (this improves performance).

Data Source

Timeframe 06.04.2011ID 50009887Last Modified On

SaveClose

GeneralObject FieldAdhoc QueryConnectorAttachments and Links

Target Connector:

GF7_ERM

| Max. Rows:

100

|Execute Query

Filter Fields

Select/Unselect Filters

Field ID	Source Field	Amount or Quantity	F

- b. Choose the *Select/Unselect Filters* pushbutton to select fields as filters.

Data Source

Timeframe 06.04.2011 ID 50009887 Last Modified On

Save Close

General Object Field Adhoc Query Connector Attachments and Links

Target Connector: GF7_ERM Max. Rows: 100 Execute Query

Filter Fields

Select/Unselect Filters

Field ID Source Field

00000001 TVFK-EKART

00000003 TVFK-MANDT

00000005 TVFKT-VTEXT

00000006 TVFK-BLART

00000007 TVFK-FKTYT

OK Cancel

- c. Select the filter in the table, and then set a filter value for it.

Data Source

Timeframe 06.04.2011 ID 50009887 Last Modified On

Save Close

General Object Field Adhoc Query Connector Attachments and Links

Target Connector: GF7_ERM Max. Rows: 100 Execute Query

Filter Fields

Select/Unselect Filters

Field ID	Source Field	Amount or Quantity	Field Description
00000003	TVFK-MANDT		Client

Filter Value

Add Delete

Sign	Option	Low	High
Range limit included	Equal to	500	

- d. Choose the *Execute Query* pushbutton and check the results from the target system.

Data Source [Help](#)

Timeframe 06.04.2011 ID 50009887 Last Modified On

[Save](#) [Close](#)

General Object Field **Adhoc Query** Connector Attachments and Links

Target Connector: GF7_ERM Max. Rows: 100 [Execute Query](#)

Filter Fields

[Select/Unselect Filters](#)

Field ID	Source Field	Amount or Quantity	Field Description
00000003	TVFK-MANDT		Client

Filter Value

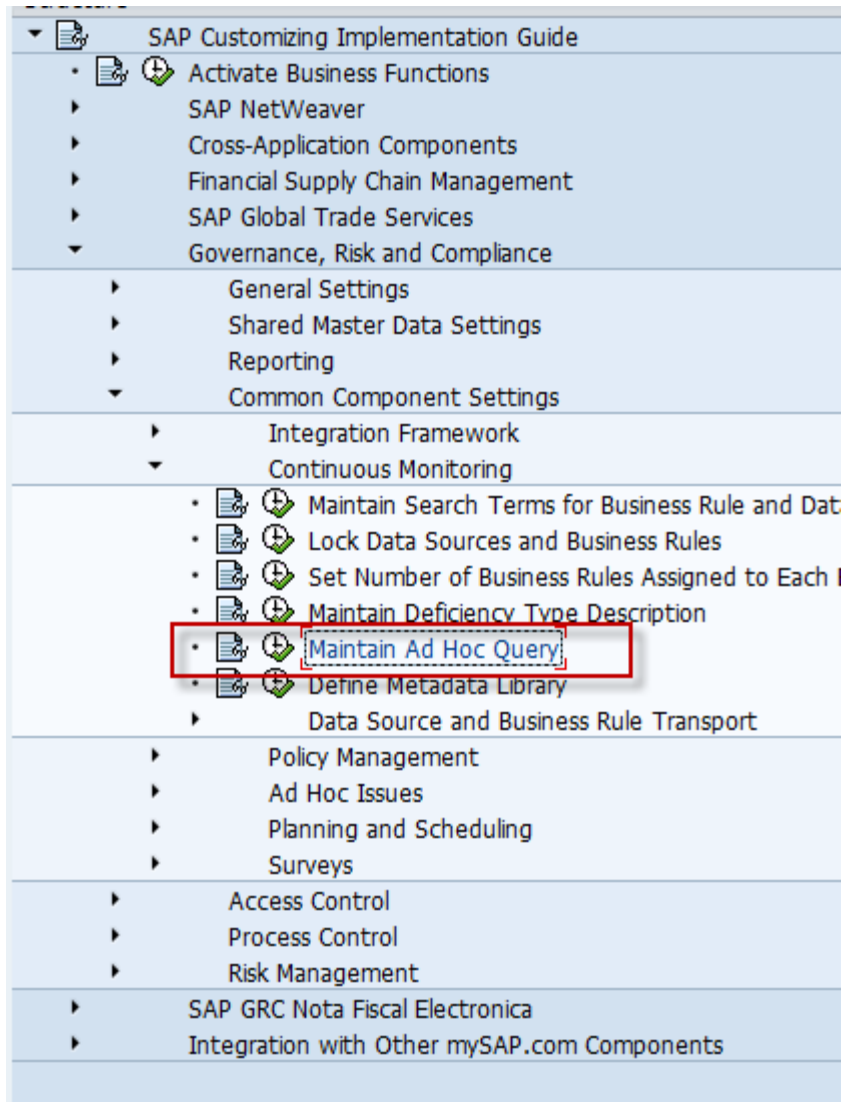
[Add](#) [Delete](#)

Sign	Option	Low	High
Range limit included	Equal to	500	

Results [Print Version](#) [Export](#) [Filter Settings](#)

Billing Type	Client	Description	Document Type	Billing category
B1	500	Rebate Credit Memo		
B1E	500	Exp.RebateCreditMemo		
B2	500	Rebate Correction		
B2E	500	Exp. Rebate Correcn		
B3	500	Rebate Part Settlmnt		
B3E	500	Exp.RebatePartSettlm		
B4	500	Rebate Manual Accrsl		
BIND	500	Indir. Invoice Reb.		
BNP	500	Ind.Plan. SettlmntReb		
BK1	500	Debit Memo Agreeemnt		

- ↑ The Customizing activity *Maintain Ad Hoc Query* in the Implementation Guide (IMG) displays the *Ad Hoc Query* tab. This can be useful, for example, if you would like to allow users to review the data or prevent them from doing so.



7. After all information fields are filled for the Data Source, set the Data Source status to *In Review*, and then save the Data Source.
8. In order to be used by a Business Rule, the Data Source status must be set to *Active*. A newly-created data source can only be saved with the status *New* or *In Review*; you will have to save and then re-open a newly created data source to change its status to *Active*, and then save again.
9. Limitations on creating Configurable Data Source include:
 - a. Related tables are not supported for pool or cluster tables. That is, no join conditions can be computed on a pooled or cluster table.
 - b. Reference fields with pool or cluster tables are not supported.
 - c. The maximum number of related tables is 5.
 - d. The suggested join conditions may need further maintenance.
 - e. NetWeaver version 46C is not supported for configurable plug-in systems.

4.3 Setup the Business Rule

1. Log in to GRC Suite via NWBC or the Portal with the role Business Rule Specialist assigned.
2. Go to *Rule Setup > Business Rule*.
3. Choose the *Create* pushbutton to open a new page for creating the Business Rule.

Business Rules

Active Queries

Without Category Assignment **All (249)**

All

▶ Show Quick Criteria Maintenance

View: [Standard View] **Create** Open Delete Copy Print Version Export

Object ID	Name	Start Date	End Date	Description
BR/50000637	br1001	02.06.2010	31.12.9999	test
BR/50000638	SDPRI_01C1_01_A	01.01.1995	31.12.9999	Tracks changes done to configuratio

- Choose the *Search Data Source* pushbutton in the initial screen.

Business Rule

Start **Close**

Usage:

Data Source: **Search Data Source**

Sub Scenario:

Connection Type:

- Clicking the *Search Data Source* pushbutton brings up the data source search screen, which allows you to search for data sources using various attributes. Clicking the *Search Data Source* pushbutton then brings up a list of matching data sources. Choose one from the displayed list, and choose *OK*.

Business Rule

Start Close

Usage: Automated Process Control

Data Source: Search Data Source

Sub Scenario:

Connection Type:

Search Data Source

Data Source: SDBILL*

Sub Scenario:

Connection Type:

Search Term: To

Validity Date: * 07.04.2011


Data Source Status: Active

Search Data Source

Data Source	Sub Scenario	Connection Type	Valid from	Valid to	Status	Object ID
SDBILL_04C4	Configurable	SAP System	01.01.1995	31.12.9999	Active	EO/50000731

OK Cancel

6. Choose the *Start* pushbutton to start Business Rule creation. Fill in the required fields in the general page, and then choose *Next*.

 **NOTE:** Ensure that the *Valid From* date is correct. We recommend that you set it as the 'valid from' date of the master data.

Business Rule [Help](#)

Timeframe 07.04.2011

1 2 3 4 5 6 7

Basic Information Data for Analysis Filter Criteria Deficiency Criteria Conditions and Calculations Output Format Technical Settings

Previous Next Close

General

Name: * SDBILL_04C4_05 Valid from: * 01.01.2010

Description: * test Valid to: * 31.12.9999

Usage: Automated Process Control

Category: * Change Log Check Data Source: SDBILL_04C4

Analysis Type: * Value Check Sub Scenario: Configurable

Status: * Connection Type: SAP System

Data Source Status: Active

Search Term

Term 1: Term 2: Term 3: Term 4: Term 5:

Connectors

Target Connector	Main Connector	Applied
G17CLNT600	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- a. For the *Category* field, there are two choices:
- Change Log Check – Monitoring changes from change log
 - Value Check – Monitoring data value from the database table

- b. Analysis Type defines the method of determining deficiency. This value depends on the Business Rule Category selected.
- i. If the Business Rule category is Value Check, the Analysis Type would be Monitoring Value. This category monitors the value of the fields in question in the database at the time the rule is executed.

Business Rule

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Form

Previous Next Close

General

Name: * SDBILL_04C4_05 Valid from: * 01.01.2010

Description: * test Valid to: * 31.12.9999

Category: * Value Check Usage: Automated Process Control

Analysis Type: * Monitor Value Data Source: SDBILL_04C4

Status: * New Sub Scenario: Configurable

Connection Type: SAP System

Data Source Status: Active

- ii. Change Log Checks are based on the changes found in the change log; if the entries are not found. It reads the values from database table and restructures it into change log format without showing the old values. If Change Log Check is selected from the Category dropdown list, multiple Analysis Types are available for selection. Analysis types include:
 1. Changes – Monitoring changes on the selected field from change log
 2. Number of Changes - Monitor the number of changes made on any particular field
 3. Review Required for Changes – No specific fields, the entire result is routed for review if any changes are found
 4. Monitor – Monitor the specified field's values in change log
 5. Pattern – Monitor data value pattern of change log across multiple fields at a specific date/time

Business Rule

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Format 7 Technical

Previous Next Close

General

Name: * SDBILL_04C4_05 Valid from: * 01.01.2010

Description: * test Valid to: * 31.12.9999

Usage: Automated Process Control

Data Source: SDBILL_04C4

Sub Scenario: Configurable

Category: * Change Log Check

Analysis Type: * Changes
Number of Changes
Review Required for Changes
Monitor
Pattern

Status: *

Connection Type: SAP System

Data Source Status: Active

Search Term

Term 1: Term 4: Term 5:

Connectors

Target Connector Ma

G17CLNT600

 Category and Analysis Type combinations include

Category	Analysis Type
Change Log Check	Changes
Change Log Check	Number of Changes
Change Log Check	Review Required for Changes
Change Log Check	Monitor
Change Log Check	Pattern
Value Check	Monitoring Value

- Change Log Types used in Automated Monitoring include:
 - SAP Change Document (Master Data)
 - Defined in transaction **SCDO**
 - Configuration Data
 - SAP standard Table Change Log – when system-wide logging is on, refer to SAP standard document for System Profile settings
 - Table logging is enabled in DDIC technical settings
 - Changes can be viewed by entering transaction **SCU3**
 - GRC Change log

When system logging is not on, the GRC change log can be turned on by scheduling a background job.
7. After you have completed all entries on the *General* tab, choose *Next* to go to the *Data for Analysis* screen. You can select fields from the Data Source for monitoring. Choose *Next*.

Business Rule: SDBILL_04C4_05 [Help](#)

Timeframe 07.04.2011

1 Basic Information 2 **Data for Analysis** 3 Filter Criteria 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Format 7 Technical Settings

Previous Next Close

Available Fields	Selected Fields
Field Description	Field Description
Client	Billing Type
	Billing document is relevant for rebate processing
	Billing type for rebate processing
	SD document category
	Language Key
	Description

8. Select the fields whose values you want to filter from the Business Rule and define the filter conditions.

Business Rule: SDBILL_04C4_05

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 **Filter Criteria** 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Format 7 Technical Settings

Previous Next Close

Filter Fields

Select/Unselect Filters

Filter Fields	Select
Field Description	<input type="checkbox"/>
Billing Type	<input checked="" type="checkbox"/>
Billing document is relevant for rebate processing	<input type="checkbox"/>
Billing type for rebate processing	<input type="checkbox"/>
SD document category	<input type="checkbox"/>
Language Key	<input type="checkbox"/>
Description	<input type="checkbox"/>

9. In the *Deficiency Criteria* screen, choose the *Select/Unselect Deficiency* pushbutton to open the screen for setting deficiency conditions.
- The deficiency fields are inherited from table handlers.

Business Rule: SDBILL_04C4_05

Help

Timeframe 07.04.2011

1

2

3

4

5

6

7

Basic Information

Data for Analysis

Filter Criteria

Deficiency Criteria

Conditions and Calculations

Output Format

Technical Settings

Previous

Next

Close

Deficiency Fields

Select/Unselect Deficiency

Field Description

Select/Unselect Deficiency

Select Handler

Remove Handler

Table Name	Handler	Handler Type	Description
TVFK			
TVFKT			

Deficiency Fields

Field Description	Select

OK

Cancel

- b. Select a table which contains the field you wish to use in defining deficiency conditions, and then choose the *Select Handler* pushbutton to select a handler from the list that appears.

Business Rule: SDBILL_04C4_05

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria **4 Deficiency Criteria** 5 Conditions and Calculations 6 Output Format 7 Technical Settings

◀ Previous Next ▶ Close

Deficiency Fields

Select/Unselect Deficiency

Field Description

Select/Unselect Deficiency

Handlers		
Handler	Handler Type	Description
V_1ATVFK	Maintenance View	Generated Table for View V_1ATVFK
V_OLD_TVFK	Maintenance View	Generated Table for View V_OLD_TVFK
V_TVFK	Maintenance View	Generated Table for View V_TVFK
V_TVFK_ABKTO	Maintenance View	Generated Table for View V_TVFK_ABKTO
V_TVFK_ROM	Maintenance View	Generated Table for View V_TVFK_ROM

OK Cancel

- c. Select the deficiency field, and then choose *OK*.

Business Rule: SDBILL_04C4_05

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria **4 Deficiency Criteria** 5 Conditions and Calculations 6 Output Format 7 Technical Settings

◀ Previous Next ▶ Close

Deficiency Fields

Select/Unselect Deficiency

Field Description	Select
Billing document is relevant for rebate processing	<input checked="" type="checkbox"/>
Billing type for rebate processing	<input type="checkbox"/>
SD document category	<input type="checkbox"/>

◀ ▶

◀ Previous Next ▶ Close OK Cancel

d. Set the field analysis type from the dropdown list.

[illegible]


 Change Log Handler definition

The Handler defines the way in which the data is changed. There are three types of handlers:

- a. Maintenance View
 - i. Indicates the changes made through which maintenance view.
 - ii. The maintenance views are mostly encapsulated in one transaction, one IMG node, and so on.
 - iii. Only those changes made through this maintenance view for the selected source table will be considered.
- b. Table
 - i. Indicates those changes made directly through the table; the table name and the maintenance view often share the same name.
- c. Object Class

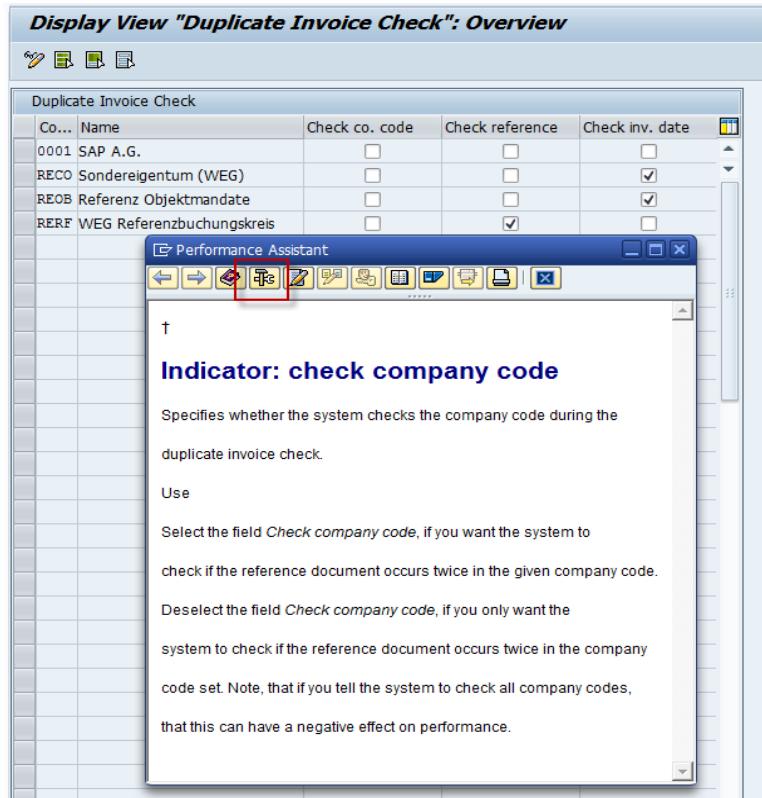
- i. It is aligned to the *Change Document Object* function in any connected NetWeaver systems.

See the SAP standard document about using Change Document Objects at http://help.sap.com/saphelp_470/helpdata/EN/2a/fa015b493111d182b70000e829fbfe/frameset.htm.
 - ii. Objects and tables are defined with transaction code **SCDO**.
 - iii. One source table can have multiple Change Document Objects defined. The monitored fields are different.
- U3
- i. This handler captures all types of changes as in **SCU3**, which is a backend transaction used to view Table Change Logs.
 - ii. Use this handler if you fail to retrieve fields with above handlers.

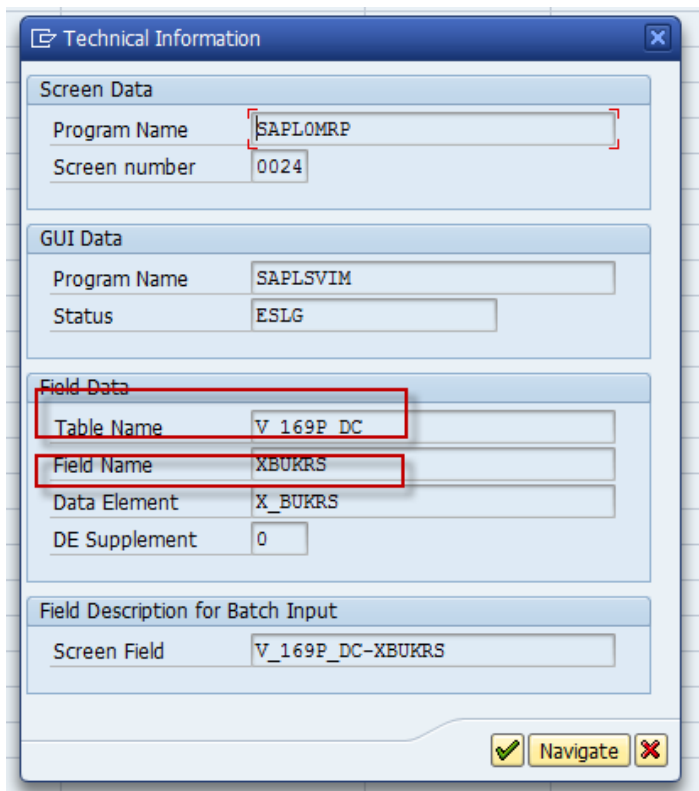
 Find the Maintenance View handler through the transaction code **SM30** in the system. For example, to change data in the *Duplicate Invoice Check* view.

[illegible]

Put the cursor on the field to be monitored, and then press F1.



Choose the *Technical Information* (Icon) pushbutton.



The table name V_169P_DC will be the handler, and XBUKRS will be the deficiency field.

9. From the *Condition and Calculations* screen, you can choose the *Condition* pushbutton to add additional filters for the rule. You can create calculation logic by choosing mathematical operator pushbuttons before calculating the Deficiency.

Business Rule: SDBILL_04C4_01

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Format 7 Technical Settings 8 Ad-hoc Query Attach

Previous Next Close

Deficiency: Billing document is relevant for rebate processing

BRF Plus Functions

Condition Open Delete Move Up Move Down

Seq. Number

Previous Next Close

Additional Filter

Business Rule Fields

Field Description	BRFplus Object Name	BRFplus Data Type
Billing Type	BR50009918_00000003	Text
Billing document is relevant for rebate processing	BR50009918_00000005	Text
Billing type for rebate processing	BR50009918_00000006	Text
SD document category	BR50009918_00000007	Text
Language Key	BR50009918_00000008	Text

Check Syntax Switch to Normal Mode

Formula

Amount Quantity Number String Date Date Duration Is initial

> = < <= >= <= & + - * / () AND OR NOT IF

OK Cancel

10. You can change the sequence of output fields by using the *Output Format* screen.

Business Rule: SDBILL_04C4_01

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Format 7 Technical Settings

Previous Next Close

Deficiency: Billing document is relevant for rebate processing

Field Description	Seq. Number	Hidden
Deficiency Sequence Number	0000	<input type="checkbox"/>
Deficiency Type Description	0000	<input type="checkbox"/>
Deficiency Description	0000	<input type="checkbox"/>
Billing Type	0010	<input type="checkbox"/>
Billing type for rebate processing	0020	<input type="checkbox"/>
SD document category	0030	<input type="checkbox"/>
Language Key	0040	<input type="checkbox"/>
Description	0050	<input type="checkbox"/>
Deficiency Field Description	0000	<input type="checkbox"/>
Change Log Change Type Text	0000	<input type="checkbox"/>
Changed text	0000	<input type="checkbox"/>
Changed On	0000	<input type="checkbox"/>
Changed At	0000	<input type="checkbox"/>
Changed by	0000	<input type="checkbox"/>

11. Choose *Next* to go to the Technical Setting screen.

- Select *Calculate Deficiency Remotely* to have the deficiency calculation processed in the NetWeaver plug-in system. Select *Locally* to have the data passed back to the GRC system, and the deficiency calculation done with the GRC system. The choice is usually between imposing a greater processing burden on the monitored system, versus transferring more data over the network to be processed on the GRC system. This is dependent upon the subscenario.

- Communication Mode sets the way monitoring program is executed:
 - i. Asynchronization – When the corresponding jobs trigger the remote function call (RFC) to the monitored NetWeaver system, the call completes without waiting for the results. Once execution completes on the monitored system, the results are sent back to the GRC system by a separate call initiated by the GRC plug-in on the monitored system.
 - ii. Synchronization – When the corresponding jobs trigger the remote function call (RFC) to the monitored NetWeaver systems, the call returns with results after processing completes.

The default setting for configurable Business Rules is Synchronization.

- There are three types of changes recognized for Change Log analysis:
 - i. Insert monitors the creation of value for the field in question, where none existed before.
 - ii. Update monitors for a change in the value of the field.
 - iii. Delete monitors the deletion of a value for the field.

The default setting is Update.

- Enter the Max. No. of Records to Analyze to limit the size of data to be monitored in the monitored NetWeaver system. You can also use this setting to maximize the performance.

Business Rule: SDBILL_04C4_01

Timeframe 07.04.2011

1 Basic Information 2 Data for Analysis 3 Filter Criteria 4 Deficiency Criteria 5 Conditions and Calculations 6 Output Format 7 Technical Settings

Previous Next Close

Where to Calculate Deficiency: ☐ Remotely ☒ Locally

Communication Mode: ☐ Asynchronization ☒ Synchronization

Change Log Type: ☐ Insert ☒ Update ☐ Delete

Max. No. of Records to Analyze:

Previous Next Close

12. The Business Rule can be tested with an Ad hoc query before you actually schedule a job.

- Select the Target connector.
- Select the query type. Query types include:
 - i. “Data Collection” extracts the data from selected target connectors, filtered by any conditions you define.
 - ii. “Apply Rule” not only extracts the data as as in Data Collection mode, but also applies any deficiency calculations you have defined.
- Set Max. Rows to limit the number of records to be returned.
- Select the Timeframe and Year for the Ad hoc Query test period from the dropdown list. This is required for monitoring the change log.
- Choose *Start* to run the query.

Business Rule: SDBILL_04C4_01 [Help](#)

Timeframe 07.04.2011

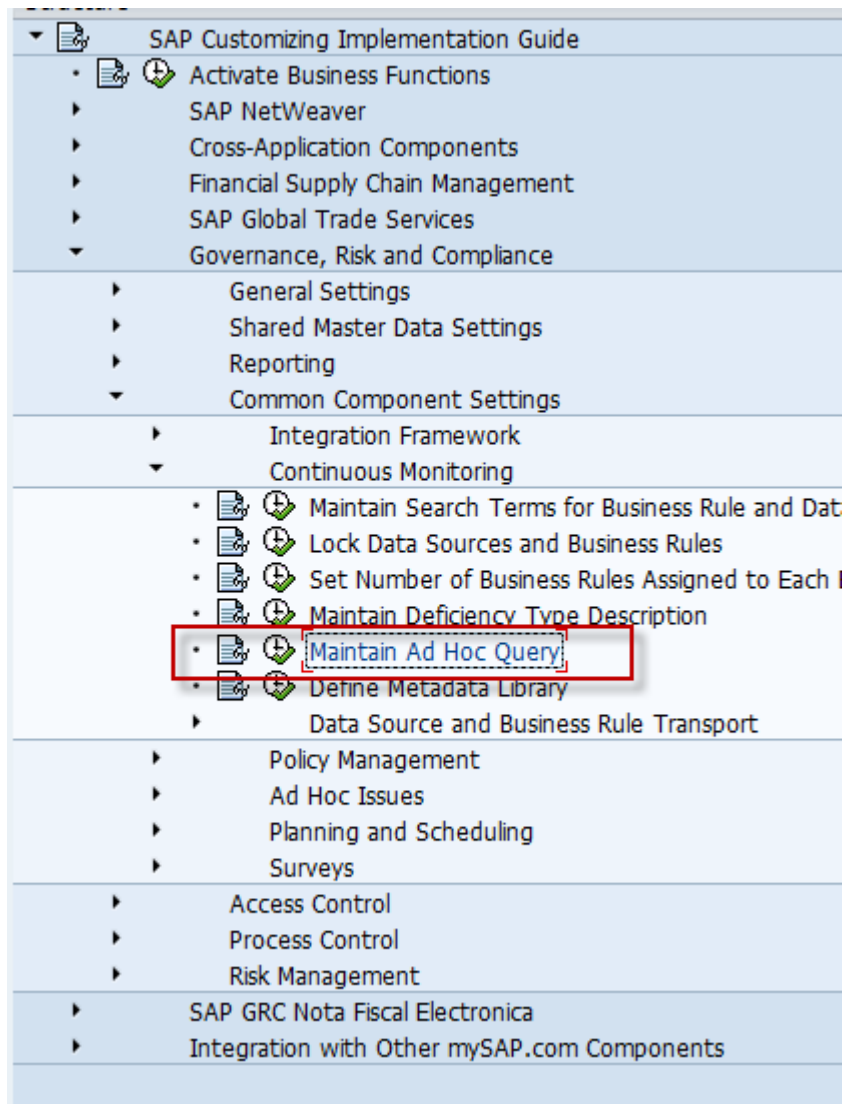
← 8 9 10 →
Ad-hoc Query Attachment and Links Confirmation

◀ Previous Next ▶ Close

Target Connector: G7CLNT600 Data Collection Max. Rows: 100 Timeframe: Year: 2011 Start

Apply Rule
Data Collection

↑ Use the Customizing activity *Maintain Ad Hoc Query* in the Implementation Guide (IMG) to display or hide the *Ad Hoc Query* tab.



13. Add the attachment if needed.
14. After the setup is finished, choose **Save**. The current page closes.
15. The Business Rule status must be set to **Active** and it can be used to control Business Rule assignment. As with data sources, note that newly-created business rules can only be saved in *New* or *In Review* status. For a newly-created rule, you will have to save and re-open it to activate it.

4.4 Assign the Business Rule to the Control

1. Navigate to *Rule Setup* → *Continuous Monitoring* → *Business Rule Assignment*.
2. Use the dropdown lists to select criteria to search for date-triggered automated or semi-automated controls.
3. Choose the *Search* pushbutton.

Control	Valid From	Valid To	Description	Organization	Process	Subprocess	Test Automation	Trigger
AS_Control1	01.01.2010	31.12.9999	AS_Control1	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control2	01.01.2010	31.12.9999	AS_Control2	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control3	01.01.2010	31.12.9999	AS_Control3	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control4	01.01.2010	31.12.9999	AS_Control4	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control5	01.01.2010	31.12.9999	AS_Control5	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date

4. Choose the controls to which you want to assign Business Rules.
5. Choose the *Modify* pushbutton.
You can edit details of the Assigned Business Rules section.
6. Select the business rule created in the previous section and then choose the *Add* pushbutton.

Business Rule	Valid From	Valid To	Business Rule Category	Data Source	Connection Type	Sub Scenario
SDBILL_04C4_03_A	01.01.1995	31.12.9999	Value Check	SDBILL_04C4	SAP System	Configurable

7. Choose the *Maintain Frequencies* pushbutton. A maximum of 10 business rules can be assigned to a control. Once the control is executed, business rules cannot be removed from the control.

Entity: Control Date: 01.01.2011 Apply

Organization: AMF AT CORP Process: Subprocess: Control:

Business Rule: Search

Control	Valid From	Valid To	Description	Organization	Process	Subprocess	Test Automation
AS_Control1	01.01.2010	31.12.9999	AS_Control1	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated
AS_Control2	01.01.2010	31.12.9999	AS_Control2	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated
AS_Control3	01.01.2010	31.12.9999	AS_Control3	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated
AS_Control4	01.01.2010	31.12.9999	AS_Control4	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated
AS_Control5	01.01.2010	31.12.9999	AS_Control5	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated

Details of Assigned Business Rules

Save Cancel

Common Business Rules Regulation-Specific Business Rules

Add Remove Maintain Frequencies Professional View

Business Rule	Description	Frequency	Monitoring	Compliance
SDBILL_04C4_01_A	Tracks changes to Rebate-relevant settings in a billing document		<input type="checkbox"/>	<input type="checkbox"/>
SDBILL_04C4_03_A	Monitor Rebate-relevant settings in a billing document	Any Frequency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

8. Select the desired frequency from the *Monitoring* or *Compliance* columns.

Entity: Control Date: 01.01.2011 Apply

Organization: AMF AT CORP Process: Subprocess: Control:

Business Rule: Search

Control	Valid From	Valid To	Description
AS_Control1	01.01.2010	31.12.9999	AS_Control1
AS_Control2	01.01.2010	31.12.9999	AS_Control2
AS_Control3	01.01.2010	31.12.9999	AS_Control3
AS_Control4	01.01.2010	31.12.9999	AS_Control4
AS_Control5	01.01.2010	31.12.9999	AS_Control5

Details of Assigned Business Rules

Save Cancel

Common Business Rules Regulation-Specific Business Rules

Add Remove Maintain Frequencies Professional View

Business Rule	Description
SDBILL_04C4_01_A	Tracks changes to Rebate-relevant settings in a billing document
SDBILL_04C4_03_A	Monitor Rebate-relevant settings in a billing document

Select Frequency

Frequency	Monitoring	Compliance
Quarterly	<input type="checkbox"/>	<input type="checkbox"/>
Daily	<input type="checkbox"/>	<input type="checkbox"/>
From day till forever	<input type="checkbox"/>	<input type="checkbox"/>
Hourly	<input type="checkbox"/>	<input type="checkbox"/>
Monthly	<input type="checkbox"/>	<input type="checkbox"/>
Weekly	<input type="checkbox"/>	<input type="checkbox"/>
Yearly	<input type="checkbox"/>	<input type="checkbox"/>
Semi-Annually	<input type="checkbox"/>	<input type="checkbox"/>
Weekly	<input type="checkbox"/>	<input type="checkbox"/>
Any Frequency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

OK Cancel

9. Choose the Save pushbutton.

Entity: Control Date: 01.01.2011 Apply

Organization: AMF AT CORP Process: Subprocess: Control:

Business Rule: Search

Control	Valid From	Valid To	Description	Organization	Process	Subprocess	Test Automation	Trigger
AS_Control1	01.01.2010	31.12.9999	AS_Control1	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control2	01.01.2010	31.12.9999	AS_Control2	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control3	01.01.2010	31.12.9999	AS_Control3	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control4	01.01.2010	31.12.9999	AS_Control4	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date
AS_Control5	01.01.2010	31.12.9999	AS_Control5	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date

Details of Assigned Business Rules

Save Cancel

Common Business Rules Regulation-Specific Business Rules

Add Remove Maintain Frequencies Professional View

Business Rule	Description	Frequency	Monitoring	Compliance
▼ SDBILL_04C4_01_A	Tracks changes to Rebate-relevant settings in a billing document			
• SDBILL_04C4_01_A	Tracks changes to Rebate-relevant settings in a billing document	Any Frequency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
▼ SDBILL_04C4_03_A	Monitor Rebate-relevant settings in a billing document			
• SDBILL_04C4_03_A	Monitor Rebate-relevant settings in a billing document	Any Frequency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

4.5 Create a Job in Automated Monitoring

1. Navigate to *Rule Setup > Scheduling > Automated Monitoring*.
2. Choose the *Create Job* pushbutton.

Active Queries

AMF Scheduler All (50)

AMF Scheduler - All

▼ Hide Quick Criteria Maintenance

Timeframe: * Year

Year: * 2010

Max. Rows: * 50

Apply Clear

View: [Standard View] **Create Job** Cancel Job Open Job Print Version Export

Job Name	Regulation	Time Frame	Year	Created On	Created Time	Created B
TEST	SOX	Year	2010	24.03.2011	04:47:55	SZ_G_ICA
ZDC_SOD_001	SOX	Year	2010	23.03.2011	20:47:09	
MSG_2509077-2010-A	SOX	Year	2010	18.03.2011	09:59:40	SZ_G_ICA

3. Select *Automated Monitoring Job* from the *Job Type* dropdown list.
4. Choose the *Start* pushbutton.

Create a Job

Continuous Monitoring Scheduler

Timeframe: *

Year: *

Job Type: *

5. Enter the *Job name*, and then select the *Execution Type*, *Frequency*, *Test Period From* and *Test Period To* from the dropdown lists.

Consider the following when specifying the *Execution Type*:

- Immediate – means the jobs you scheduled will be executed immediately according to the dates in the *Test Period From* and *Test Period To* fields.
- Date/Time – means the jobs will be executed according to the dates in the *Test Period From* and *Test Period To* fields plus the days and time you specified. If you selected *After* plus 1 day at 02:00, the job will be executed at 02:00 on the day you specified in the *Test Period To* field + 1 day. For example, if the end of period is 2011/07/31, the job will be executed at 02:00 on 2011/08/01.
- Event trigger – not applicable for the Configurable subscenario.

Regardless of the execution type, if the starting date of the test period is in the past, the job will be executed immediately. For example, if you specify Monthly M08 and the current date is 15 September, the job will be executed immediately. In order to avoid such cases, jobs should be scheduled with a starting date in the future.

Create a Schedule - Microsoft Internet Explorer

Continuous Monitoring Scheduler

Timeframe Year 2011

1 Header 2 Share Regulation 3 Select Controls 4 Control Details 5 Confirmation

Previous Next Close

Job Type: * Automated Monitoring Job

Job name: *

Execution Type: * Immediate

Frequency: *

Test Period From: *

Test Period To: *

Target Connector: *

Comment:

6. Select a *Regulation* from the dropdown list.

Continuous Monitoring Scheduler

Timeframe Year 2010

1 Header 2 Share Regulation 3 Select Controls 4 Control Details 5 Confirmation

Previous Next Close

Regulation: * SOX

Monitoring Results Sharing: * ☒ Do not share ☐ Share with some regulations ☐ Share with all regulations

7. Search for and then select the controls which have Business Rules assigned.

Continuous Monitoring Scheduler [Help](#)

Timeframe Year 2010

1 Header 2 Share Regulation 3 **Select Controls** 4 Control Details 5 Confirmation

◀ Previous Next ▶ Close

Control Search

Organization: AMF AT CORP Process: Subprocess: Control:

Business Rule: Search

Control	Valid From	Valid To	Description	Organization	Process	Subprocess	Test Automation	Trigger
AS_Control8	01.01.2010	31.12.9999	Control for HR Query	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date

⏮ ⏪ ⏩ ⏭

Control	Valid From	Valid To	Description	Organization	Process	Subprocess	Test Automation	Trigger
AS_Control1	01.01.2010	31.12.9999	AS_Control1	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date

8. Choose the Save pushbutton.

Continuous Monitoring Scheduler [Help](#)


Timeframe Year 2010

1 Header 2 Share Regulation 3 Select Controls 4 **Control Details** 5 Confirmation

◀ Previous Save ▶ Close

Selected Controls

Control	Valid From	Valid To	Description	Organization	Process	Subprocess	Test Automation	Trigger
AS_Control1	01.01.2010	31.12.9999	AS_Control1	AMF AT CORP	AS_Process1	AS_SubProcess1	Automated	Date



Control Business Rules

Business Rule	Description	Target Connector
SDBILL_04C4_01_A	Tracks changes to Rebate-relevant settings in a billing document	GI7CLNT600
SDBILL_04C4_03_A	Monitor Rebate-relevant settings in a billing document	GI7CLNT600

9. After choosing the Save pushbutton, the newly created Job Name appears in the *Automated Monitoring Jobs Overview* screen. Choose the *Open Job* pushbutton to see job execution details in the *Job Step* screen. Once a control is selected, all assigned business rules will be executed.

AMF Scheduler - All

▼ Hide Quick Criteria Maintenance [Change Query](#) [Define New Que](#)

Timeframe: * Year ▼
 Year: * 2010 ▼
 Max. Rows: * 50

[Apply](#) [Clear](#)

View: [Standard View] [Create Job](#) [Cancel Job](#) [Open Job](#) [Print Version](#) [Export](#)

Job Name	Regulation	Time Frame	Year	Created On	Created Time	Created By	Changed On	Changed Time	Changed By	Status
SBILL_04CX	SOX	Year	2010	07.04.2011	05:49:50		07.04.2011	05:49:53		In Progress
JOB 001 QUERY	SOX	Year	2010	06.04.2011	19:33:15		06.04.2011	19:33:31		Completed
DEFINITION	SOX	Year	2010	01.04.2011	06:55:15		01.04.2011	06:55:30		Completed

4.6 View the Job Result in Job Monitor

1. Navigate to *Rule Setup > Scheduling > Job Monitor*.
2. Enter search criteria such as the *Job Name*.
3. Select the *Frequency*, *Execution Date From* and the *Execution Date To* from the dropdown lists.
4. Choose the *Search* pushbutton.

Job Monitor

Show: Year ▼ 2010 ▼ [Apply](#) Max. Rows: 50

▼ Search Criteria

Job Name: SBILL_04CX Frequency: ▼
 Execution Date From: 31.03.2011 Execution Date To: 07.04.2011 Target Connector: ▼
[Search](#)

View: [Standard View] [Print Version](#) [Export](#) [View Results](#) [View Events](#) [Business Rule](#) [Org. Level System Parameters Snapshot](#) [Filter Settings](#)

Regulation	Job Name	Job Step	Status	Total Deficiency Count	Deficiency Type	Execution Date	Execution Time	Control	Business Rule
SOX	SBILL_04CX	1	Completed	70	Medium	07.04.2011	05:49:53	AS Control	SDBILL_04C4_01_A
SOX	SBILL_04CX	2	Completed	32	Medium	07.04.2011	05:49:53	AS Control	SDBILL_04C4_03_A

5. Choose the *View Results* pushbutton to see the monitoring result.

Job Monitor

Show: Year ▼ 2010 ▼ [Apply](#) Max. Rows: 50

▼ Search Criteria

Job Name: SBILL_04CX Frequency: ▼
 Execution Date From: 31.03.2011 Execution Date To: 07.04.2011 Target Connector: ▼
[Search](#)

View: [Standard View] [Print Version](#) [Export](#) [View Results](#) [View Events](#) [Business Rule](#) [Org. Level System Parameters Snapshot](#) [Filter Settings](#)

Regulation	Job Name	Job Step	Status	Total Deficiency Count	Deficiency Type	Execution Date	Execution Time	Control	Business Rule
SOX	SBILL_04CX	1	Completed	70	Medium	07.04.2011	05:49:53	AS Control	SDBILL_04C4_01_A
SOX	SBILL_04CX	2	Completed	32	Medium	07.04.2011	05:49:53	AS Control	SDBILL_04C4_03_A

Job Name: SBILL_04CX

Result

Please select which result data to be shown: Billing document is relevant for rebate processing

Administrative Info		Business Rule Info	
Control:	AS_Control1	Business Rule:	SDBILL_04C4_01_A
Subprocess:	AS_SubProcess1	Data Source:	SDBILL_04C4
Process:	AS_Process1		
Organization:	AMF AT CORP		

Job Step Design Info				Job Step Runtime Info			
Schedule Range:	Year	Execution Date:	07.04.2011				
Schedule Year:	2010	Execution Time:	05:50:04				
Schedule Frequency:	Yearly	Deficiency Type:	Medium				
Period from Date:	01.01.2010	Deficiency Count:	30				
Period to Date:	31.12.2010	Medium:	30				
Target Connector:	G17CLNT600	More Data:	<input type="checkbox"/>				
Maximum Rows:	100	Total Data Rows:	30				
		Total Deficiency Count in Percentage:	100,00				
		Language Key of Text Environment:	English				

Details

[Print Version](#) [Export](#)

Sequence Number	Deficiency Type	Deficiency Description	Billing Type	Billing type for rebate processing	SD document category	Description	Deficiency Field Description
1	Medium	Medium	B3	D	O	Rebate Part Settlmnt	Billing document is relevant for rebate pi
2	Medium	Medium	B3	D	O	Rebate Part Settlmnt	Billing document is relevant for rebate pi
3	Medium	Medium	B3	D	O	Rebate Part Settlmnt	Billing document is relevant for rebate pi
4	Medium	Medium	B1		C	Rebate Credit Memo	Billing document is relevant for rebate pi
5	Medium	Medium	B1		C	Rebate Credit Memo	Billing document is relevant for rebate pi
6	Medium	Medium	B1		C	Rebate Credit Memo	Billing document is relevant for rebate pi
7	Medium	Medium	B2	A	O	Rebate Correction	Billing document is relevant for rebate pi
8	Medium	Medium	B3E	A	O	Exp.RebatePartSettlm	Billing document is relevant for rebate pi
9	Medium	Medium	B4	B	O	Rebate Manual Accrsl	Billing document is relevant for rebate pi
10	Medium	Medium	B1		C	Rebate Credit Memo	Billing document is relevant for rebate pi
11	Medium	Medium	B1E	B	O	Exp.RebateCreditMemo	Billing document is relevant for rebate pi
12	Medium	Medium	B2	A	O	Rebate Correction	Billing document is relevant for rebate pi
13	Medium	Medium	B1E	B	O	Exp.RebateCreditMemo	Billing document is relevant for rebate pi
14	Medium	Medium	B3	D	O	Rebate Part Settlmnt	Billing document is relevant for rebate pi
15	Medium	Medium	B3E	A	O	Exp.RebatePartSettlm	Billing document is relevant for rebate pi

6. If there is more than one deficiency field, use the dropdown list on top to select which deficiency results appear.

Job Name: SBILL_04CX

Result

Please select which result data to be shown: Billing document is relevant for rebate processing

Administrative Info		Business Rule Info	
Control:	AS_Control1	Business Rule:	SDBILL_04C4_01_A
Subprocess:	AS_SubProcess1	Data Source:	SDBILL_04C4
Process:	AS_Process1		
Organization:	AMF AT CORP		

Job Step Design Info				Job Step Runtime Info			
Schedule Range:	Year	Execution Date:	07.04.2011				

5. Comments and Feedback

Your feedback is very valuable and will enable us to improve our documents. Please take a few moments to complete our feedback form. Any information you submit will be kept confidential.

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http://www.surveymonkey.com/s.aspx?sm=stdoYUlaABrbKUBpE95Y9g_3d_3d

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