

# Dunning by Collection Strategy with BRFplus (SAP Enhancement Package 5 for SAP ERP Only)



## Applies to:

Credit and Collections Management based on Contract Accounts Receivables and Payables with SAP Enhancement Package 5 for ERP (SAP NetWeaver (ABAP) 7.0 Enhancement Package 2) in combination with Business Rule Framework plus (BRFplus). For more information, visit the [Business Rules Management homepage](#).

## Summary

This document shows how to use BRFplus in the Dunning Run of 'Contract Accounts Receivables and Payables (FI-CA)' with SAP Enhancement Package 5. A sample BRFplus application for this scenario is attached as an XML file.

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## About the Author



Andrea Waldi has been working as a developer for Contract Accounts Receivables and Payables (FI-CA) for several years. For the Credit and Collections Management project, she has implemented the new Dunning by Collection Strategy, which determines the next dunning activities using business rules, starting with the BRF rules engine, followed by BRFplus as of SAP Enhancement Package 6 for ERP. In September 2011, she joined the BRFplus development team.

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## Purpose of this Document

This document describes how to use BRFplus as a rules engine for Dunning by Collection Strategy with SAP Enhancement Package 5.

As of SAP Enhancement Package 6, Dunning by Collection Strategy with BRFplus is available as part of the FI-CA standard solution. With SAP Enhancement Package 5, BRFplus can already be embedded in the dunning run, using an installation-specific function module for FI-CA event 315, as described in SAP note 1466868.

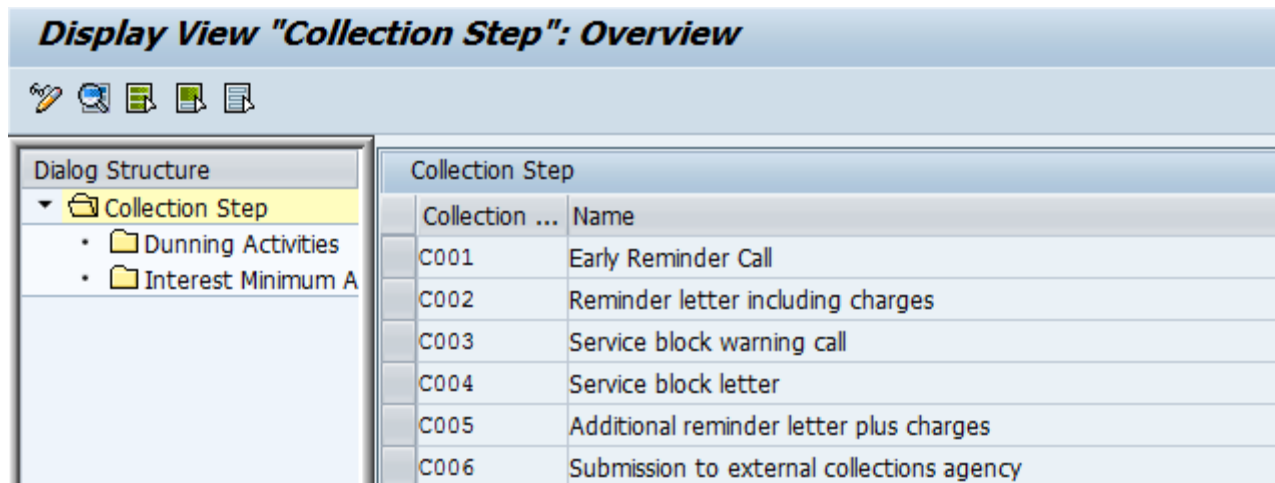
This document gives additional information on how to implement BRFplus for dunning by collection strategy with SAP Enhancement Package 5. It provides also a sample BRFplus application as an XML file for upload.

## Step-by-Step Description

### 1. Create Collection Steps in Customizing

In the view cluster maintenance (transaction SM34), open view cluster VC\_TFK047U and create Collection Steps C001 to C006, which are used in the sample application (you may as well start the IMG for Contract Accounts Receivable and Payable and choose *Business Transactions -> Dunning -> Dunning by Collection Strategy -> Define Collection Step*).

**Display View "Collection Step": Overview**



Collection Step	
Collection ...	Name
C001	Early Reminder Call
C002	Reminder letter including charges
C003	Service block warning call
C004	Service block letter
C005	Additional reminder letter plus charges
C006	Submission to external collections agency

## 2. XML Upload of the Sample Application

- Download the attached XML file Z\_COLLECTIONS\_SAMPLE\_FILE.XML to your PC.
- Start transaction SA38 and execute the program FDT\_XML\_IMPORT to import the file from your PC into the system. The sample BRFplus application Z\_COLLECTIONS\_SAMPLE will be created.

**Program to Import BRFplus XML**

UI for BRFplus XML Import

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**Input XML File**

XML File Path\*

\*Note - If not provided a popup appears during execution

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**XML Import Type**

Import Type

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**Transport Request**

Workbench Transport Request\*

\*Note - Mandatory if importing xml contains system objects

Customizing Transport Request\*

\*Note - Mandatory if importing xml contains customizing objects

---

**Action Type**

Check Before Import

Save & Activate after Import

---

**XML Info**

System XML Version Number 1.08

SAP | E5M (2) 090 | uxa

- Start the BRFplus workbench (transaction FDT\_WORKBENCH).
- Check if the data objects and expressions of function RETURNCOLLVALUES are active in the sample application.
- If the system raises error messages for a data object during activation due to a missing industry-specific field, refresh the binding of the data object to the DDIC type in the BRFplus workbench.

### 3. Generate BRFplus Function

- Copy the function ID from the general data of function RETURNCOLLVALUES to the clipboard.

The screenshot displays the SAP BRFplus Workbench interface in a Microsoft Internet Explorer browser window. The browser address bar shows the URL: `https://uxciq5j.wdf.sap.corp:44376/sap/bc/webdynpro/sap/ftd_wd_workbench`. The main content area is titled "Function RETURNCOLLVALUES" and is in "Active" mode. The "General" tab is selected, showing the following details:

Name:	RETURNCOLLVALUES	Access Level:	Application Component
ID:	E122244F61DFF26AE1000000A428839	Object Type:	Function
Application:	Z_COLLECTIONS_SAMPLE	Application ID:	8D20244F61DFF26AE1000000A428839
Created By:	WALDI	Changed By:	WALDI
Creation Date:	30.01.2012	Change Date:	30.01.2012
Creation Time:	18:22:44	Change Time:	18:25:34

Below the general information, there are buttons for "Start Simulation", "Show Traces", and "Generate Web Service". The "Properties" tab is also visible, showing the "Mode" set to "Event Mode". A note at the bottom states: "The function is set to event mode. Via the tab 'Rulesets' you can view the assigned Rulesets and also create new ones."

- Generate the function with program FDT\_GENERATION\_TOOL using the copied function ID.

**Tool for Analysing Generated Functions and (Re)-Generating them**

Select Options

Select Set of Functions  
 Display System Functions  
 Display Customer Functions  
 Display Master Data Functions  
 Only Function from Owner  
 Owner   
 Sel. Functions of Application  
 Application ID   
 Select Function with Errors  
 Regenerate faulty Functions  
 Delete References with errors  
 Delete Ref. without Functions  
 Delete Ref. without Class  
 Delete Classes without Ref.  
 Select Single Function  
 Generate Function  Generate for Lean Trace  
 Generate on demand  Only search generated class  With Object Check  
 Delete References for Function  
 Check BFRplus Object  
 Function ID   
 Function Name   
 Generation Time

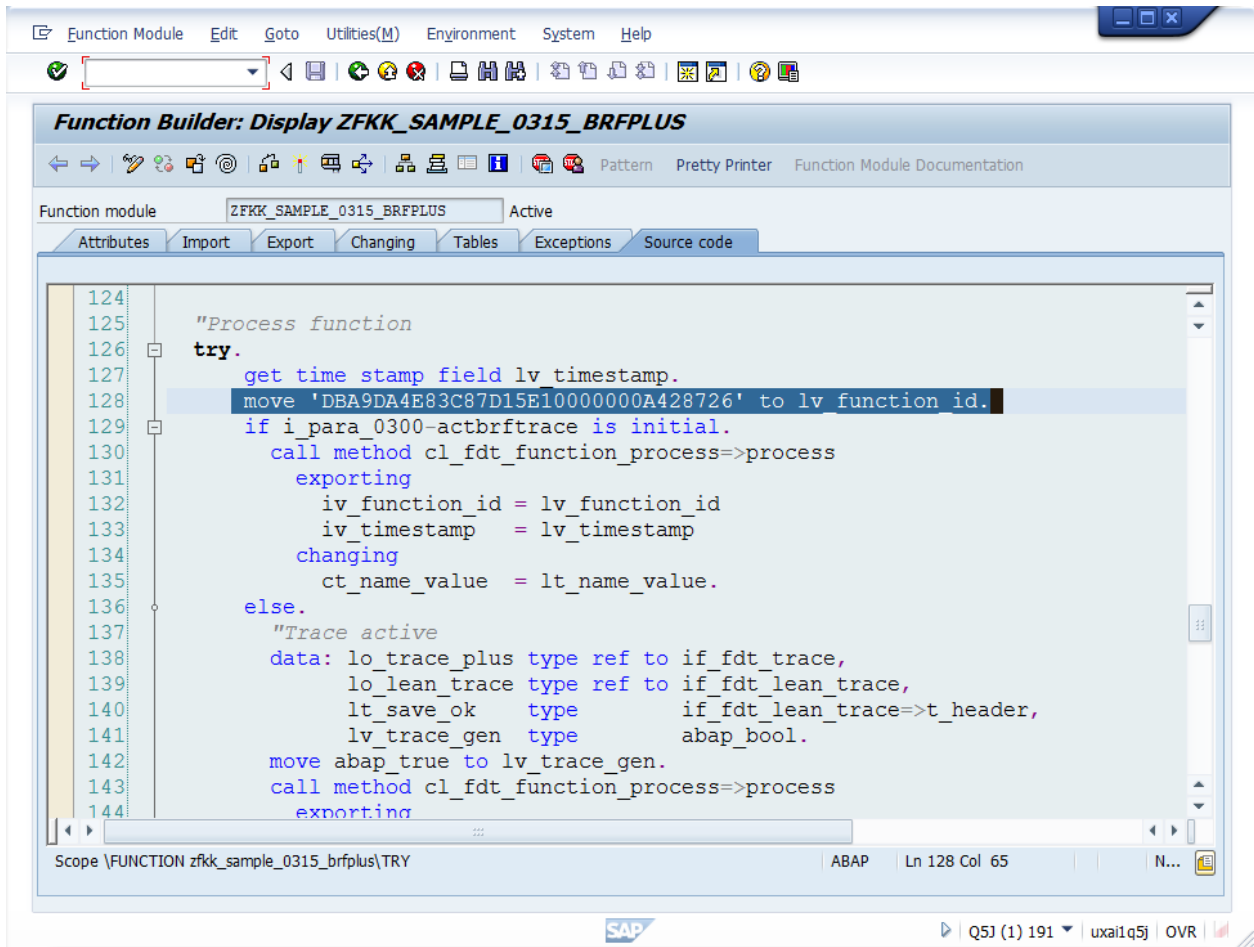
Output Options

Show Function Analysis  
 Show Coding Analysis  
 Show UUID's  
 Show Statistic

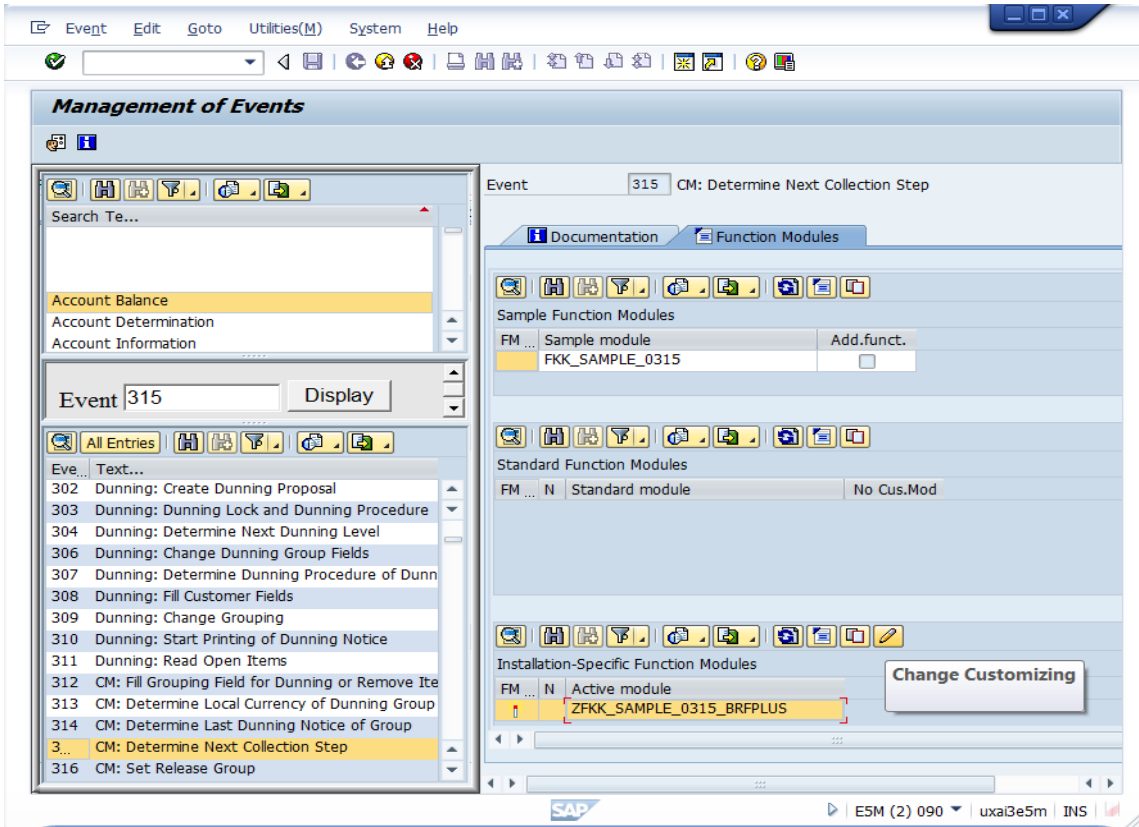
- If the system raises error messages for a data object during activation due to a missing industry-specific field, refresh the binding of the data object to the DDIC type in the BRFplus workbench. If it is not possible to generate the function with the 'Generate for Lean Trace' option set because versioning of an object is not active, run report FDT\_LEAN\_TRACE\_READY\_CHECK for the function ID to switch versioning on for all objects and activate the objects. Then try again to generate the function for lean trace.

#### 4. Create Installation-Specific Function Module for FI-CA Event 315

- Create function module ZFKK\_SAMPLE\_0315\_BRFPLUS. Take over the source code from note [1466868](#).
- Replace the function ID in the source code by the function ID of RETURNCOLLVALUES.

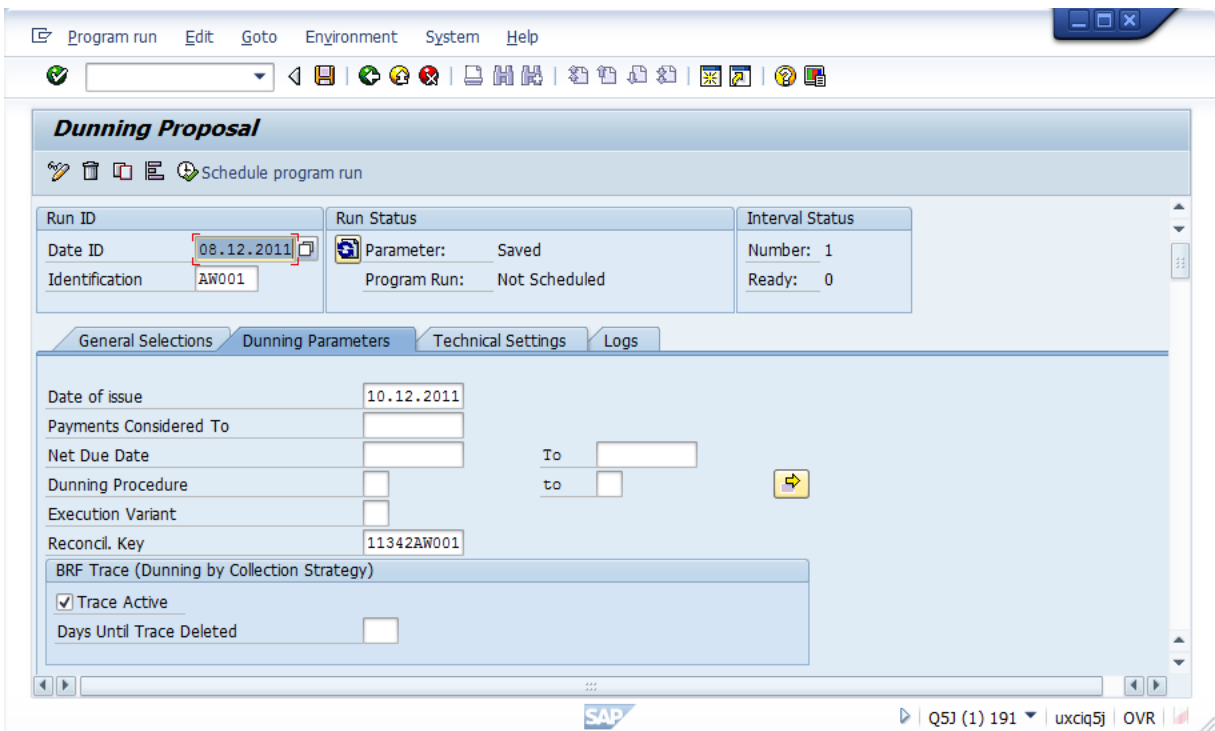


- In transaction FQEVENTS, assign function module ZFKK\_SAMPLE\_0315\_BRFPLUS as an installation-specific function module to event 315 (or, in the IMG for Contract Accounts Receivable and Payable, choose Program Enhancements -> Define Customer-Specific Function Modules).



5. Execute Dunning Run

- Start the dunning proposal run (transaction FPVA) with 'Trace Active' switched on in the dunning parameters.



- In the dunning history (Environment -> Dunning History), check if a dunning notice has been created.



## 6. Check Lean Trace

- In the BRFplus trace, you can see how the collection step has been derived (or why it could not be derived). Check the BRFplus trace in the workbench with action ‚Show Traces‘ for function RETURNCOLLVALUES.

The screenshot shows the BRFplus Workbench interface in Microsoft Internet Explorer. A window titled 'Lean Traces for Function : Beispielstrategie' is open, displaying a table of trace events. The table has columns for 'Lean Trace', 'Function', and 'STARTED'. The trace shows the following steps:

Lean Trace	Function	STARTED
Lean trace for Beispielstrategie started on 08.12.2011 14:16:58 by user WALDI	Function	STARTED
RETURNCOLLVALUES	Function	STARTED
Functional Processing		
Context		
RETURNCOLLVALUES_RULES	Ruleset	STARTED
Rule	Rule	STARTED
Rule	Rule	STARTED
No condition defined, firing True-Action(s)		
COLL_STRAT_CONS_2	Decision Table	STARTED
Rule	Rule	FINISHED
RETURNCOLLVALUES_RULES	Ruleset	FINISHED
RETURNCOLLVALUES	Function	FINISHED

The interface also shows a 'Detail' section with buttons for 'Start Simulation', 'Show Traces', and 'Generate Web Service'. The status bar at the bottom indicates 'Trusted sites | Protected Mode: Off' and '100%' zoom.

- As of EHP6, the BRFplus trace will also be accessible from the dunning history and from the dunning proposal mass activity (transaction FPVA). It will be possible to jump directly to the trace data of a certain dunning notice or dunning run.

## **Related Content**

[Z\\_COLLECTIONS\\_SAMPLE\\_FILE.XML](#)

For more information, visit the [Business Rules Management homepage](#).

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