

Release: 1.0



CAF / GP Cookbook

Working with CAF & GP using JDI

CAF 7.00 on JDI 6.40

History

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1 Introduction

This document describes the process of configuring the Java Development Infrastructure (JDI) and using it to develop CAF and GP applications.

1.1 External documentation

This document refers to the following official documents delivered by SAP in the help portal (<http://help.sap.com>) :

- Administration manual of JDI :
 - http://help.sap.com/saphelp_nw04/helpdata/en/49/e98876e9865b4e977b54fc090df4ed/frameset.htm

2 Initial Configuration of JDI

This chapter describes how to configure the JDI in order to start developing CAF & GP applications. The steps in this chapter are relevant immediately after an installation.

2.1 Pre-requisites

This chapter assumes that you have met the following pre-requisites:

- JDI has been installed and preconfigured with the template installer:
 - An “Admin User” (here: NWDI_ADM) which has access to all the JDI servers (DTR, CBS, CMS) has been created and has been assigned necessary privileges (See Administration manual in help portal for details).
 - The System Landscape Directory (SLD) has the new content (of the Software Components delivered with this release).

2.2 Step by step process

2.2.1 Create a new Software Component (SC) in SLD

In SLD, navigate to “Software Catalog” and create a new SC with your vendor name and your Product (Create a new “Product” entry, if you do not already have one).



The screenshot shows a web browser window titled "Define Software Component - Microsoft Internet Explorer". The address bar shows the URL: `http://pwwf3065:50000/sld/definesapsoftwarecomponent.jsp`. The page header includes the SAP logo and "SAP NetWeaver System Landscape Directory". Below the header, there are links for "Home" and "Help". The main heading is "Define Software Component". The form contains the instruction "Add a software component to a non-SAP product." and the following fields:

Product	TEST, 0.9 of sap.com
Vendor (lower case):	sap.com
Name (upper case):	CAF_TEST
Version:	1.0

At the bottom of the form, there are "Create" and "Cancel" buttons. Below the form, the status bar shows "Namespace: sld/active", "J2E", and "Object Server: J2E". The browser's taskbar at the bottom shows "Local intranet".

2.2.2 Define usage dependencies for the SC

From the SC details page of the SC created above, define usage dependencies (context: “Build time”) to other SCs needed to develop CAF and GP applications. The final set of dependencies are listed below:

Software Catalog SAP_CR 2.0

Search for products and software components.

Usage Dependencies

Dependency Context: Filter:

Component: [CAF_TEST, 1.0 of sap.com](#)
 Name: CAF_TEST
 Version: 1.0

	Name	Version
CAF_TEST, 1.0 of sap.com uses software component versions at BuildTime		
<input type="checkbox"/>	BI META MODEL REPOSITORY 7.00	BI_MMR 7.00
<input type="checkbox"/>	BI UDI 7.00	BI_UDI 7.00
<input type="checkbox"/>	CAF EU 7.00	SAP-EU 7.00
<input type="checkbox"/>	DI BUILD TOOL 7.00	SAP_BUILDDT 7.00
<input type="checkbox"/>	SAP CAF 7.00	CAF 7.00
<input type="checkbox"/>	SAP CAF-KM 7.00	CAF-KM 7.00
<input type="checkbox"/>	SAP J2EE ENGINE 7.00	SAP-JEE 7.00
<input type="checkbox"/>	SAP JAVA TECH SERVICES 7.00	SAP_JTECHS 7.00
CAF_TEST, 1.0 of sap.com is used in software component versions at BuildTime		
--No software component uses CAF_TEST, 1.0 of sap.com at BuildTime--		
<input type="checkbox"/> Select All 11 Items		

Namespace: sld/active

(Note: Don't be confused about the '11 items' even if you count only 8 entries. Some of those entries are counted as multiple item.)

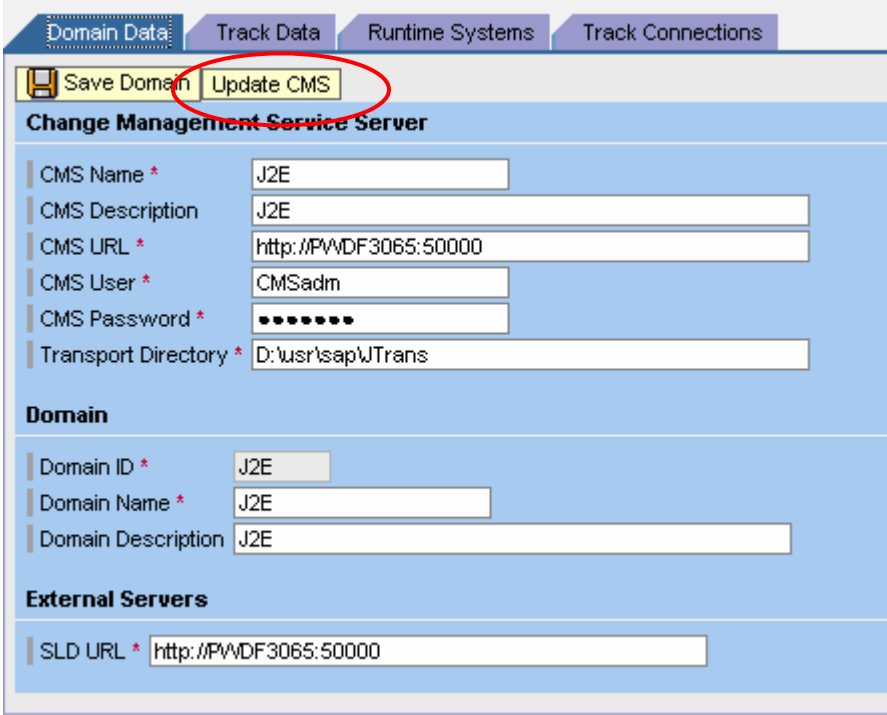
2.2.3 Define a domain in CMS

If not already done, create a domain in CMS, as described in the help portal document at the following location:

http://help.sap.com/saphelp_nw04/helpdata/en/b9/086b4066d9bf49e10000000a1550b0/frameset.htm

2.2.4 Update CMS with recently added SLD info

The SC definitions (and its dependencies) must be made available to CMS. This can be triggered through the “Update CMS” button on the Domain Data or Track Data tab of CMS Landscape Configurator.



The screenshot shows the 'Domain Data' tab of the CMS Landscape Configurator. The 'Update CMS' button is circled in red. Below the button, the 'Change Management Service Server' section contains the following fields:

CMS Name *	J2E
CMS Description	J2E
CMS URL *	http://PWDF3065:50000
CMS User *	CMSadm
CMS Password *	*****
Transport Directory *	D:\usr\sap\jTrans

The 'Domain' section contains the following fields:

Domain ID *	J2E
Domain Name *	J2E
Domain Description	J2E

The 'External Servers' section contains the following field:

SLD URL *	http://PWDF3065:50000
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This operation may take around 15 minutes, after which you should see a status message at the bottom : “CMS Update finished”.

2.2.5 Create a new Track using the Landscape Configurator

On the “Track Data” tab of the Landscape Configurator, enter the general data as shown below:

Repository Type	DTR	
Track ID (max. 8 characters) *	CAFGP	
Track Name *	CAFGP	
Track Description	CAF and GP development	
Design Time Repository URL	http://PWDF3065:50000/dtr	Go to DTR
Component Build Service URL	http://PWDF3065:50000	Go to CBS
Development Configuration		
Development Configuration Description		
Development Configuration Path	App/1.0	

Substitute the URLs with the appropriate ones from your landscape. The Development Configuration path is optional.

2.2.6 Add Software Components to track

On the same "Track Data" tab, add the Software Components you created earlier in SLD.

Add Software Component	
Vendor	sap.com
Name	CAF_TEST
Caption	CAF_TEST, 1.0 of sap.com
Description	
Release	1.0
Package Type	Source and Archive
<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

If you do not wish to distribute sources to your customers, then select Package Type "Archive". After this step, the bottom half of this tab will look as shown below:

Software Components (SC)					
Software Components for Development					
<input type="button" value="Add SC ..."/> <input type="button" value="Delete Table Entry"/> <input type="button" value="View/Edit XML Content ..."/> <input type="button" value="Load SC Configuration ..."/>					
Software Component Name	Vendor	Release	Package Type	SC State	
CAF_TEST	sap.com	1.0	Source and Archive	●●●	
Zeile 1 von 1					
Required Software Components					
<input type="button" value="Add SC ..."/> <input type="button" value="Delete Table Entry"/> <input type="button" value="View/Edit XML Content ..."/>					
Software Component Name	Vendor	Release	SC State		
BASELIBS	sap.com	7.00	●●●		
BASETABLES	sap.com	7.00	●●●		
BI_MMR	sap.com	7.00	●●●		
Zeile 1 von 31					

As shown, the list of “Required Software Components” is automatically populated using the dependencies defined in SLD. This list contains not only the dependencies you defined, but all transitive dependencies.

Save your changes by clicking on the “Save” button on this tab.

2.2.7 Import Software Components into this track

2.2.7.1 Download Archives

The Software Component archives (.sca files) must be downloaded from the Service Marketplace (<http://service.sap.com/patches>) according to your needed SPS-level. Place the files into the “inbox” folder of the CMS. (The “inbox” folder can be found under the following path: “<CMS Transport Directory>\CMS\inbox”, where the <CMS Transport Directory> is specified in the “Domain Data” tab of the CMS Landscape Configurator).

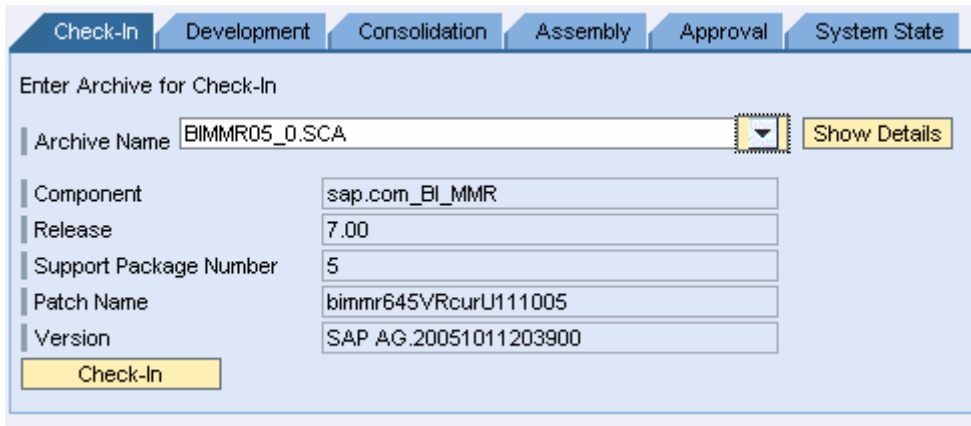
The following .sca files must be placed into the CMS inbox folder:

- SAPJTECHS.sca
- SAPBUILDT.sca
- SAPJEE.sca
- BIUDI.sca
- BIMMR.sca
- CAF.sca
- CAFKM.sca
- SAPEU.sca

(**Note:** The names of .sca files could be different – they may include version numbers, vendor name, etc)

2.2.7.2 Check-In archives

In the “Check-In” tab of the CMS Transport Studio CMS perform a “Check-In” : select each of the above archives and click on the “Check-In” button.



2.2.7.3 Import the checked in archives into the Development system

In the “Development” tab, select the checked-in components and click the “Import” button.

Processed at (GMT)	Component	Label	Owner	State
2005/12/05 09:24:35	sap.com_UWLJWF	7.00 Level 5 Update appl645VRcurU271005	Make	Import finished
2005/12/05 09:23:45	sap.com_SAP_JTECHS	7.00 Level 5 Update 645_VAL_REL.051124	Make	Waiting for import
2005/12/05 09:23:45	sap.com_SAP_BUILD	7.00 Level 5 Update bpscore645VRcurU1110	Make	Waiting for import
2005/12/05 09:23:45	sap.com_SAP-JEE	7.00 Level 5 Update 645_VAL_REL.051012	Make	Waiting for import

Although it is possible to select all at once and start the import, this can result in the rollback of all previous import if something fails towards the end. Hence, it is recommended to import a few components at a time.

After the import the “state” (field on the extreme right in the picture above) will be shown as “Import Finished”

2.2.7.4 Import the checked in archives into the Consolidation system

Repeat the above step in the “Consolidation” tab.

2.2.8 Configure Runtime Systems in the track

Configure your runtime systems as described in the following topic in the help portal:

http://help.sap.com/saphelp_nw04/helpdata/en/35/1cd66947184aa8915ca1831c59b6c1/content.htm

2.2.9 Import the Development Configuration

Now that the servers in the landscape have been configured, development can begin. The first step on the client side (using the NetWeaver Developer Studio) is to import the Development Configuration which corresponds to the “Development” system of this track that has been created.

An example is shown below:

