

# SAP NetWeaver Composition Environment: A Software Lifecycle Management Scenario without NWDI

## Applies to:

SAP NetWeaver Composition Environment

## Summary

This document discusses software lifecycle management without an NWDI infrastructure, which is ideal for ISVs with only a couple of developers on the team. This document details the environment setup and development, build, and packaging for release.

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## Author Bio



Sudhakar Krishnamurthy has been working as Quality Management Lead in SAP NetWeaver Development Tools team since July 2004. He was working in Testing and certifying the Netweaver studio releases. Has working in depth knowledge in various tools Web Dynpro, web services, J2EE, NWDI. Sudhakar was responsible for the Web Dynpro IT Scenario for the CE release.

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## 1. Scenario

Team of developers with a small ISV is trying to develop composite applications for SAP NetWeaver Composite environment (CE) platform. This ISV has only a couple of developers and they are trying a small composite application. For this scenario complete NWDI infrastructure would be expensive and not required too. With just CE as the platform we could do the Lifecycle management of the composite developed by the developers. This tutorial explains step by step approach.

## 2. Prerequisites

CE platform is installed.

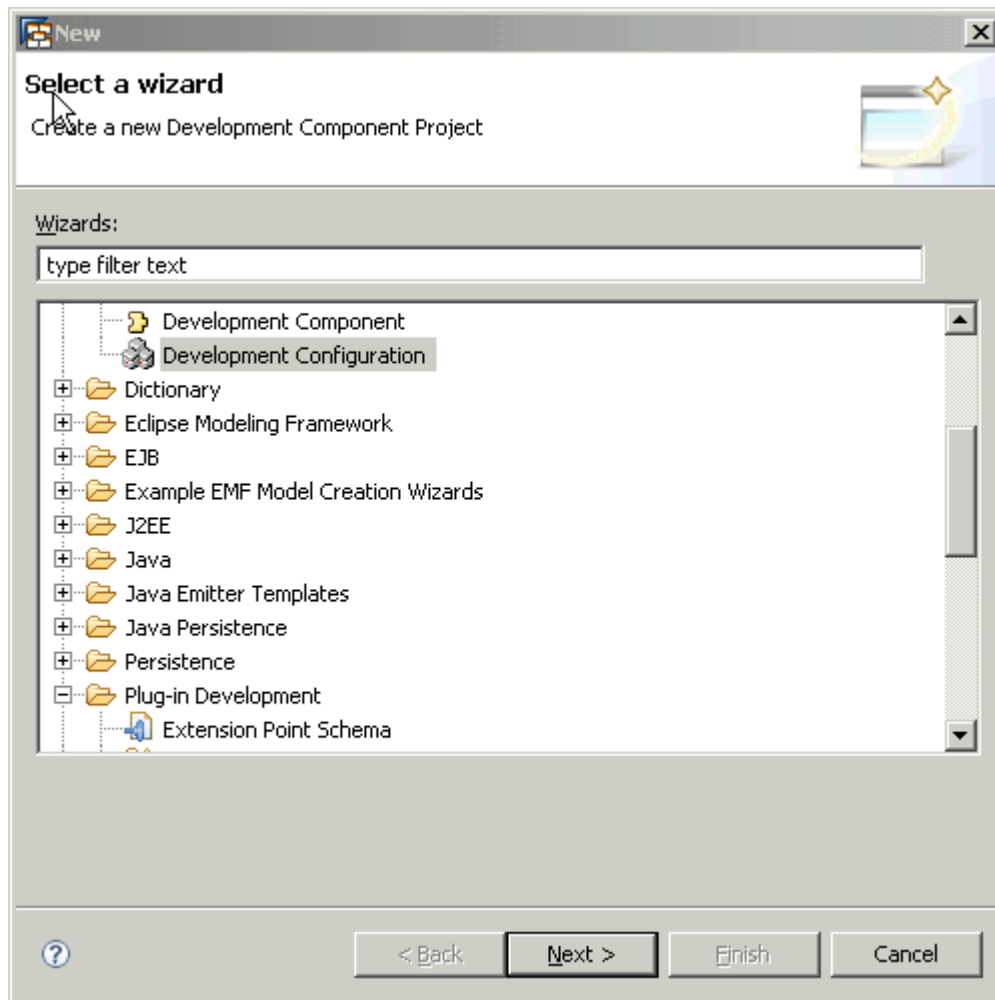
Each developer has a IDE installed in the development machines

## 3. Step by Step Approach

### 3.1 Creating a Local Development Configuration

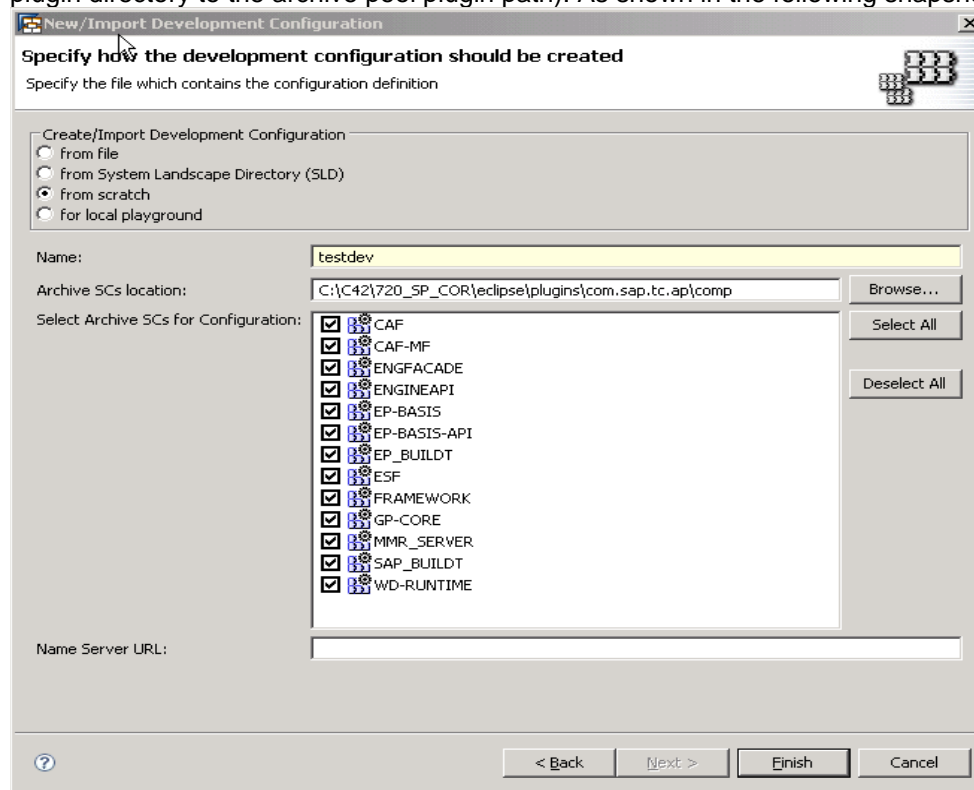
1. Start NetWeaver Studio

2. Open File menu -> New-> Other-> Select **Development Configuration** as shown in the following snapshot. And Click **Next**



3. Select the option from scratch and specify the name of the devconfig as testdev and also the Archive SC root (default value pointing to the NetWeaver Studio installation)

plugin directory to the archive pool plugin path). As shown in the following snapshot.



4. Click **Finish**.
5. Local Development configuration is created in the default workspace directory.
6. Open Development Infrastructure perspective and in the component browser the new development configuration for created dev config testdev should be created.
7. Create SC named TESTCOMP for the development. For this select the dev config node on the IDE and Right Click → New → Software Component → This opens the following wizard snapshot below.

The screenshot shows the 'New Software Component' dialog box in the SAP NetWeaver Composition Environment. The title bar reads 'New Software Component' and the main heading is 'Define SC Attributes'. Below the heading, it says 'Provide name, vendor, and relative root'. The dialog contains several input fields: 'Name' with the value 'TESTCOMP', 'Vendor' with 'sap.com', 'Caption' (empty), and 'Description' (empty). Below these is a 'Relative Root' field with 'TESTCOMP' and a 'Browse...' button. At the bottom left, there are two radio buttons: 'Source SC' (selected) and 'Archive SC'. At the bottom right, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. A help icon (?) is located at the bottom left of the dialog area.

Set the entries Name: **TESTCOMP** , Vendor Name: **sap.com** , select Source SC. Click **Next** and Click Finish in the next page

The screenshot shows the 'New Software Component' dialog box in the SAP NetWeaver Composition Environment, now at the 'Define SC Dependencies' step. The title bar reads 'New Software Component' and the main heading is 'Define SC Dependencies'. Below the heading, it says 'Select the SCs, whose DCs should be visible from this SC'. The dialog contains a list of software components with checkboxes next to them, all of which are checked. The list includes: CAF [sap.com], CAF-MF [sap.com], ENGFACADE [sap.com], ENGINEAPI [sap.com], EP-BASIS [sap.com], EP-BASIS-API [sap.com], EP\_BUILD [sap.com], ESF [sap.com], FRAMEWORK [sap.com], GP-CORE [sap.com], MMR\_SERVER [sap.com], SAP\_BUILD [sap.com], and WD-RUNTIME [sap.com]. To the right of the list are two buttons: 'Select All' and 'Deselect All'. At the bottom right, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. A help icon (?) is located at the bottom left of the dialog area.

8. Check the SC TESTCOMP is created for the dev config
9. Now we have a Software component ready for our DC development to start.

### 3.2 Creating WebDynpro DC:

1. Create a new DC from the context menu of the software component TESTCOMP.
2. Choose "Web Dynpro" as Type
3. Enter the details of the DC in this wizard

Name: **test**

Vendor Name : sap.com

Support Component : BC\_WD\_JAV

**New Development Component (Project)**

**New Development Component**  
Create new Development Component (Project)

Vendor: sap.com

Name: test

Caption: Test Webdynpro DC

Language: American English

Domain: Basis

Keep DC local for now (use Add to Source Control, later)

Support Component: BC\_WD\_JAV  
(e.g. BC-DWB-FOO-BAR)

? < Back Next > Finish Cancel

3.

4. Click "Next" and "Finish"

5. Check the DC named test is created and try to build the project right click on the DC and select Development Component → Build. This will trigger DC build using the build plugins which is part of NWDS installation.

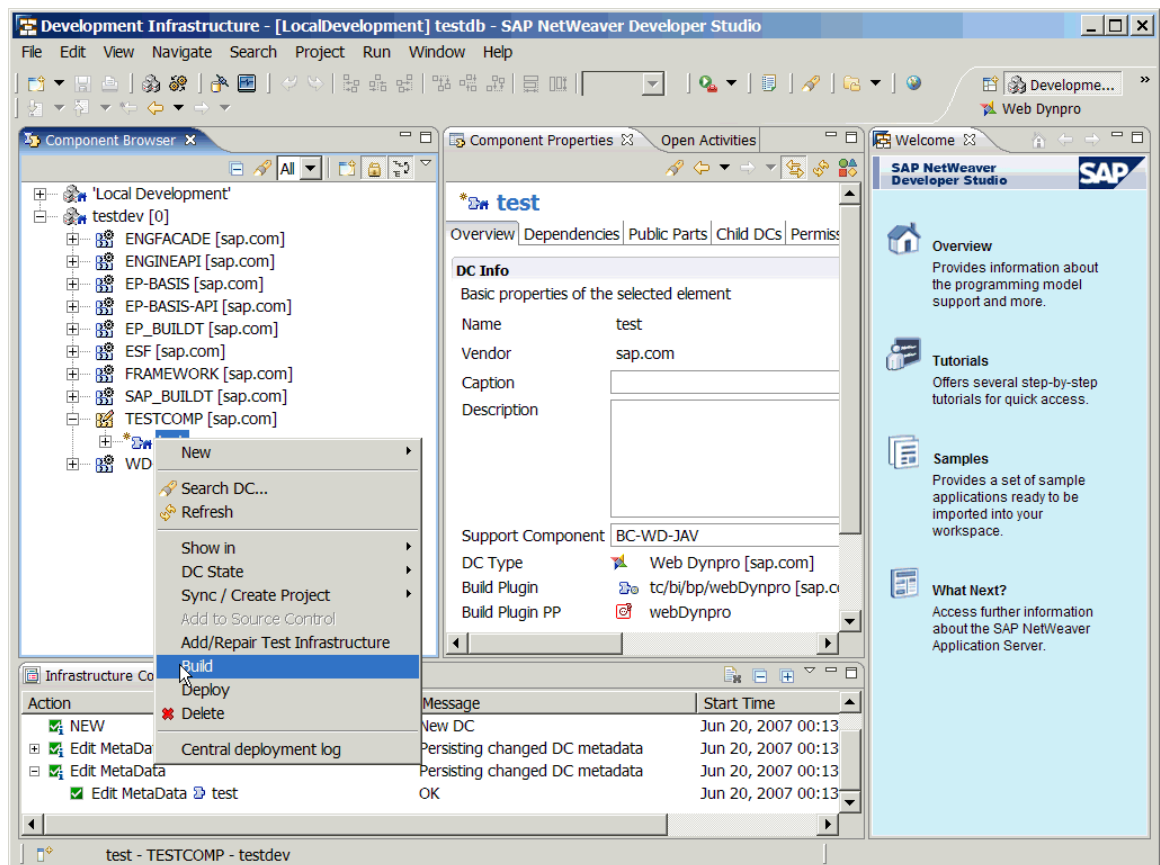
### Check

Check whether DC is created under the SC TESTCOMP without any error messages.

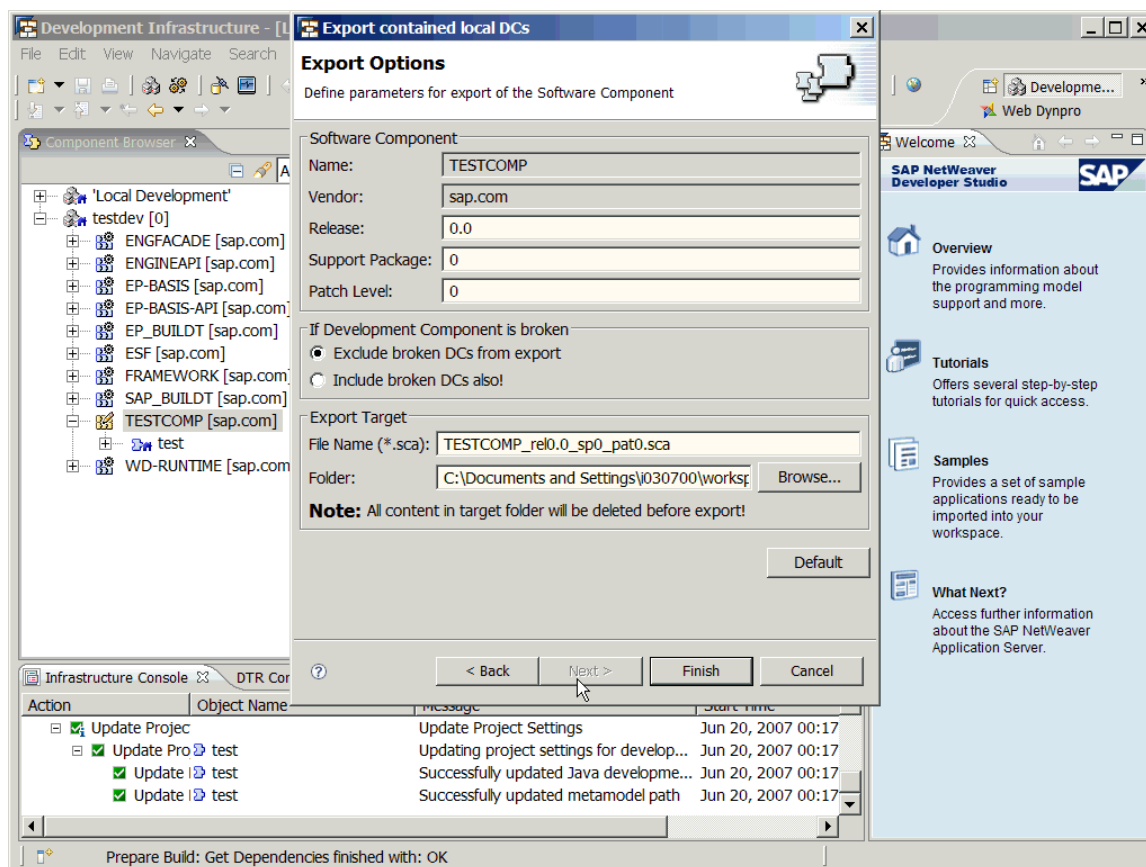
## 3.3 Packaging, Source Code delivery using IDE

Once the DC are created and the development is complete next step is the building and packaging of the product for delivery. This activity can be done either through the NetWeaver studio or using CE command line tool which is part of the CE installation. Here we first we see the Packaging option using the IDE.

1. Build the DC from IDE by right click the created DC and select build option.



2. Once all the DC are build successfully and ready to be packed for delivery. Right Click the Software Component TESTCOMP and select Export option.



3. SCA is created and ready for delivery to the customer.

### 3.4 Packaging, Source Code delivery using CL tools

Packaging and delivery can be done using the CL tools which is part of CE installation. This method would be ideal for automating the procedure of building and packaging. We can create batch and schedule for Daily nightly build using this option.

1. Open file in command prompt <Developer Studio Installation>\eclipse\tools\ nwcetool \nwcetool.bat
2. Set variable NWCETOOLLIB to <Developer Studio Installation>\eclipse\tools\lib
3. Set JAVA\_HOME variable to the JDK installation directory.

Use the Following Sequence of commands to the NWCETOOL to build, Package and create SCA.Assuming the workspace is created in "c:\nwd" folder



```
Nwce>loadconfig -l "C:\nwds\workspace.jdi\LocalDevelopment" -a "<developer
studio installation folder>eclipse\plugins\com.sap.tc.ap\comp"

nwce>listavailabledcs

nwce>listusingdcs -n test -v sap.com -c TESTCOMP

nwce>buildalldcs

nwce>lisstbuildresults -f buildres.html

nwce>packdcs -c TESTCOMP -b default -i doc

nwce>exportforassembly -c TESTCOMP -b default -f c:\packing

nwce>packsca -n TESTCOMP -v sap.com -l mylocation -c 20061025120000 -r 1.0 -
sp 1 -pl 1 -da "c:\packing\deployarchives" -ba "c:\packing\buildarchives" -
includingsubdirs c:\packing\testcomp.sca
```

### Check

- \*Check build results are available as html file once the buildddc command is run.
- \*After the exportforassembly command check for the folders **deployarchives**, **buildarchives**, **sourcearchives**.
- \*check for creation of testcomp.sca file after running the command packsca.

## Related Content

- <https://www.sdn.sap.com/irj/sdn/go/portal/prtroot/docs/library/uuid/7014086d-3fd9-2910-80bd-be3417810c6f>
- <https://www.sdn.sap.com/irj/sdn/ce>
- <https://www.sdn.sap.com/irj/sdn/webdynpro>

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