



JAVA-EE-STD 7.1 and JAVA-EE-ADV 7.1

Third-Party Software Product Certification

based on the

SAP NetWeaver Composition Environment (CE) 7.1

Why do you need to test removing (undeploying) your EE 5 application during certification?

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[\(complete bio appears on page 2\)](#)

Short Introduction

JAVA-EE-STD 7.1 and **JAVA-EE-ADV 7.1** product certification is based on the [SAP NetWeaver CE 7.1 Application Server Java™ EE 5 Edition](#) and addresses two different levels of certification quality and harmonization on the SAP NetWeaver platform. By going through certification, your Java EE 5 application is certified on the [SAP EE compatible Java application server](#). This means you deploy the application, start it and make sure it runs / functions properly. However, the need might arise, requiring the certified product to be removed from a SAP customer environment or infrastructure. Maybe a business or technical decision at the SAP customer site requires removal of the certified product, which has been running stable all along. Below are the details, why we need to conduct such a test during certification. Will the SAP system still remain stable and behave reliably, after the product has been removed ([undeployed](#))?

Why do you need to remove (undeploy) your product, software components and any configuration changes made to the SAP NetWeaver CE 7.1 EE application server during JAVA-EE-STD 7.1 and JAVA-EE-ADV 7.1 deployment certification?

As mentioned in the **EE 5 Documentation and Test Catalog**, with the [certified SAP NetWeaver Application Java Server EE5](#), you can develop Java EE applications based on the new [Java EE 5 standard](#) , or [migrate existing EE 5 / J2EE applications](#) on to our platform and have these applications (products) [certified](#).

From time to time, you or the SAP customer might be required to [remove](#) the certified product which has been running ([deployed](#)) stable and reliably in production at the SAP customer site. Maybe you have a new product version available with new features which the SAP customer would like to purchase? Maybe some type of standard, specification or change in law requires a removal? Once purchased, maybe the existing certified product needs to be removed since it can't be easily upgraded or from a technical perspective it is better to do a clean install ([deployment](#))? Or possibly a business decision at the SAP customer site requires the removal of the product?

Whatever the reasons are, [undeploying](#) the product which you want to have certified will be mandatory during the certification test.

If we think a little further, the following questions arise:

1. After the product has been [undeployed](#), will the SAP NetWeaver CE 7.1 Application Server Java EE 5 still run?
2. If you made [configuration changes to the SAP NetWeaver Application Java Server EE 5](#) in order for your product to deploy successfully and then removed these changes, will the Java server still run?
3. If the Java server was shut down and restarted after you removed everything (your product was [undeployed](#) and any [configuration](#) changes made were deleted), will the Java server still work?

These are indeed not only important questions to think about, but also need to be considered and tested ahead of time.

Just think about it what would happen, if all along you always backed up your daily work from your office PC via some type of backup mechanism and the next day your PC stopped working? No problem, just get another PC if it can't be repaired, and restore your data. But what if the data you backed up all along successfully can't be restored since the saved data can't be read for some reason? Maybe it could have been avoided, if a restore test would have been conducted?

Well it's not about backing up, restoring or getting new hardware, but the idea is that you can continue to work reliably without jeopardizing an existing stable working environment when things are changing.

What do you need to do during the JAVA-EE-STD 7.1 and JAVA-EE-ADV 7.1 deployment certification test in order to successfully remove ([undeploy](#)) your product without jeopardizing an existing SAP system environment?

Just follow the steps below. **Since the undeployment test is the last part in the certification process, make sure you have a backup of your complete test environment before you continue with the steps mentioned below.** In case needed, you should be able to restore your complete test environment quickly and reliably in order to finish the certification process (in case the undeployment fails during certification and puts the SAP NetWeaver CE 7.1 Application Server Java EE 5 in an unresponsive state and the undeployment needs to be repeated).

1. [Undeploy](#) via the **SAP NetWeaver Developer Studio (Window -> Show View -> Other -> Deploy View -> Undeploy View)** your successfully [deployed](#) application. Please note, you will need to undeploy your successfully deployed SCA file, and not your EAR file !

See also in the [EE_5_Documentation_and_Test_Catalog](#) the section called "**Test criteria relevant to both integration scenarios JAVA-EE-STD and JAVA-EE-ADV**" and the requirements mentioned in **number 3 "Utilizing certain command line tools of the SAP NetWeaver CE 7.1 Composition Environment....."** in order to understand why the SCA file needs to be deployed.

2. Check if the Java server still works (use familiar tools like SAP [NWA](#), SAP [MC](#), and see also [General System Administration](#) etc.).
3. Remove any configuration changes you made and check if the Java server still works (use familiar tools like SAP [NWA](#), SAP [MC](#) and see also [General System Administration](#) etc.).
4. [Shutdown the Java Server](#) and any [databases](#) and then restart them afterwards.

5. Use the tools mentioned above to determine if the Java Server still works. Please note, test some things on the SAP NetWeaver Application Server default web page as described and depicted in the figure below.

Address: <http://wdfid00156398a:50000/index.html> ← Enter your Java Server Hostname and the port you are using.

SAP NetWeaver Application Server Java

- SAP Library**
SAP Library contains the complete documentation for SAP Web Application Server. You can access it by choosing *SAP NetWeaver* -> *SAP Web Application Server*.
- System Information**
System information provides administrators with an overview of the system configuration and its state. It shows all of the system's instances and processes, their current state and important parameters (such as ports) that may be required for support cases, as well as the versions of the components installed.
- User Management**
The user management administration console provides administrators with the functions they need to manage users, groups, roles, and user-related data in the User Management Engine (UME). Users without administrator permissions can use it to change their user profile.
- Web Services Navigator**
Web Services Navigator is a tool that gives you a short overview of a specific Web service based on its WSDL, and enables you to test your Web service by creating and sending a client request to the real end point.
- SAP NetWeaver Administrator**
A powerful administration, configuration and monitoring tool, which bundles key administrative tasks to keep your SAP NetWeaver system landscape running. SAP NetWeaver Administrator can be used in a central or local scenario. Here you access the local NetWeaver Administrator.
- Services Registry**
The Services Registry is a UDDI based registry that contains definitions of enterprise services and references to their metadata.
- UDDI Client**
The UDDI client provides query and publishing functions for UDDI entities to any UDDI compliant registry.
- Web Dynpro**
Web Dynpro is a User Interface technology available within the SAP NetWeaver Developer Studio. Various Web Dynpro tools provide administrators and application developers with performance measurement and application administration capabilities. The Web Dynpro runtime is already deployed.

Select the System Information and SAP NetWeaver Administrator icons to see if they work?

Also check, that the successfully undeployed EE 5 application (SCA file) is no longer visible via the SAP NetWeaver Administrator tool -> Configuration Management" -> Infrastructure -> System Info -> Components Info -> Software Components.

Summary

At the SAP customer site, you will not only find different SAP products in use, but also certified Third-Party software products being used in production. What's important today is the ability to adapt quickly to changing business requirements in order to meet and accommodate on going business needs. Changes in technologies, specifications, standards and laws can be the driving factors behind these changes. This means, in any SAP system environment running 7 days and 24 hours a day, technical changes will become necessary in order to accommodate changing business requirements. With the above mentioned changes, the existing environment will have to continue to operate stable and reliable. It may not be obvious at first, but is extremely important, that after successfully removing your application, once it has been deployed during the certification process, will the existing SAP system environment continue to run or not? Finally, the undeployment test does not guarantee or state anything about high availability, since this would be way beyond the scope of **JAVA-EE-STD 7.1** and **JAVA-EE-ADV 7.1** product certification.

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Prior to joining SAP, he worked as a financial analyst and controller and in management information systems for 3 years with a US multinational and UK based corporation. After joining SAP in 1989, he worked 4 1/4 years as a support engineer in R/2 hotline - SAP QSA, in the area R/2 RF. Subsequently, before joining the department ICC, he worked 9 years as a system administrator within SAP IT, in the areas of OS/2, Windows, Linux, Lotus Notes/Domino, training and internal production systems, VMware, 7x24 support, networking, hardware, monitoring. Bernhard's current focus within ICC are SAP NetWeaver integration technologies, for example, J2EE and CCMS, lowering TCO, outsourcing, server and system consolidation of ICC test systems utilizing VMware. In addition to his SAP expertise, Bernhard holds/obtained an MBA (Master of International Business Administration from Thunderbird, The American Graduate School of International Management), BA (Bachelor of Science in Business Administration from Bowling Green State University), and Arts (Associate of Arts from Cuyahoga Community College). Bernhard lived 16 years in the United States and is bilingual in English and German.

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