

EE 5 Technical Product Profile

JAVA-EE-NW 7.3

Third-Party Software Product Certification

based on the

SAP NetWeaver Composition Environment (CE) 7.3

**SAP[®] Certified
Integration**

© Copyright 2011 SAP AG. All rights reserved.

- **NO PART OF THIS PUBLICATION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR FOR ANY PURPOSE WITHOUT THE EXPRESS PERMISSION OF SAP AG. THE INFORMATION CONTAINED HEREIN MAY BE CHANGED WITHOUT PRIOR NOTICE.**
- **SOME SOFTWARE PRODUCTS MARKETED BY SAP AG AND ITS DISTRIBUTORS CONTAIN PROPRIETARY SOFTWARE COMPONENTS OF OTHER SOFTWARE VENDORS.**
- **MICROSOFT, WINDOWS, OUTLOOK, AND POWERPOINT ARE REGISTERED TRADEMARKS OF MICROSOFT CORPORATION.**
- **IBM, DB2, DB2 UNIVERSAL DATABASE, OS/2, PARALLEL SYSPLEX, MVS/ESA, AIX, S/390, AS/400, OS/390, OS/400, ISERIES, PSERIES, XSERIES, ZSERIES, Z/OS, AFP, INTELLIGENT MINER, WEBSHERE, NETFINITY, TIVOLI, AND INFORMIX ARE TRADEMARKS OR REGISTERED TRADEMARKS OF IBM CORPORATION IN THE UNITED STATES AND/OR OTHER COUNTRIES.**
- **ORACLE IS A REGISTERED TRADEMARK OF ORACLE CORPORATION.**
- **UNIX, X/OPEN, OSF/1, AND MOTIF ARE REGISTERED TRADEMARKS OF THE OPEN GROUP.**
- **CITRIX, ICA, PROGRAM NEIGHBORHOOD, METAFRAME, WINFRAME, VIDEOFRAME, AND MULTIWIN ARE TRADEMARKS OR REGISTERED TRADEMARKS OF CITRIX SYSTEMS, INC.**
- **HTML, XML, XHTML AND W3C ARE TRADEMARKS OR REGISTERED TRADEMARKS OF W3C®, WORLD WIDE WEB CONSORTIUM, MASSACHUSETTS INSTITUTE OF TECHNOLOGY.**
- **JAVA IS A REGISTERED TRADEMARK OF SUN MICROSYSTEMS, INC.**
- **JAVASCRIPT IS A REGISTERED TRADEMARK OF SUN MICROSYSTEMS, INC., USED UNDER LICENSE FOR TECHNOLOGY INVENTED AND IMPLEMENTED BY NETSCAPE.**
- **MAXDB IS A TRADEMARK OF MYSQL AB, SWEDEN.**
- **SAP, R/3, MYSAP, MYSAP.COM, XAPPS, XAPP, SAP NETWEAVER AND OTHER SAP PRODUCTS AND SERVICES MENTIONED HEREIN AS WELL AS THEIR RESPECTIVE LOGOS ARE TRADEMARKS OR REGISTERED TRADEMARKS OF SAP AG IN GERMANY AND IN SEVERAL OTHER COUNTRIES ALL OVER THE WORLD. ALL OTHER PRODUCT AND SERVICE NAMES MENTIONED ARE THE TRADEMARKS OF THEIR RESPECTIVE COMPANIES. DATA CONTAINED IN THIS DOCUMENT SERVES INFORMATIONAL PURPOSES ONLY. NATIONAL PRODUCT SPECIFICATIONS MAY VARY.**
- **THESE MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THESE MATERIALS ARE PROVIDED BY SAP AG AND ITS AFFILIATED COMPANIES ("SAP GROUP") FOR INFORMATIONAL PURPOSES ONLY, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, AND SAP GROUP SHALL NOT BE LIABLE FOR ERRORS OR OMISSIONS WITH RESPECT TO THE MATERIALS. THE ONLY WARRANTIES FOR SAP GROUP PRODUCTS AND SERVICES ARE THOSE THAT ARE SET FORTH IN THE EXPRESS WARRANTY STATEMENTS ACCOMPANYING SUCH PRODUCTS AND SERVICES, IF ANY. NOTHING HEREIN SHOULD BE CONSTRUED AS CONSTITUTING AN ADDITIONAL WARRANTY.**

Vendor Data

Vendor Name (SAP internal):	<ICC enter CRM ISV name>
Vendor Number (SAP internal):	<ICC enter CRM ISV number>
Vendor Product Name:	<ISV product name>
Vendor Product Release:	<ISV product release>
Vendor Product Number (SAP internal):	<ICC enter CRM ISV product number>
Vendor Interface Name:	<ISV interface name>
Vendor Interface Release:	<ISV interface release>
Date:	Month Day, Year

SAMPLE

Please answer the following questions in the column to the right before you start.

<p>Please let us know in the column to the right, why you want to have your J2EE 1.4 / EE 5 product certified?</p> <p>Keep in mind and also address the following things in your answer:</p> <p>What you as an ISV expect to gain from having your product certified?</p> <p>What are your customer's expectations in regards to why you should have your product certified?</p> <p>Do your expectations and those of your customers match, don't match, doesn't matter etc?</p>	<p>I/want to certifybecause....etc.</p>
--	---

EE 5 Technical Product Profile. Why is it needed?

The purpose of this document is to get an overview of your technical system and your EE 5 product and software component(s). Please fill in all information properly, in order to speed up your certification work. This document will be used by your designated integration consultant before and during the certification. The document below is divided into two sections called

- 1) **EE 5 Technical System Information** – contains information about your hardware and software (operating system, database, SAP EE 5 server, SAP NetWeaver Developer Studio, SAP licensing etc.)
- 2) **EE 5 Product Information** – contains information about the following:
 - a) your EE 5 application (EE 5 specification adherence/conformance)
 - b) EE 5 SAP JVM
 - c) description of your EE 5 application components (product and software, such as JAR and WAR files)
 - d) descriptor files if needed
 - e) configuration needed within the SAP EE 5 environment for your EE 5 application to work
 - f) EAR file name and description
 - g) whether or not your application supports clustering, failover, load balancing etc.

As of SAP NetWeaver CE 7.3, at least one SAP NetWeaver Developer User license per developer in your team will be mandatory in order to go through the certification process. Upon request, SAP can check if your company already has purchased named developer user licenses before you begin with your integration work.

Having the proper development environment installed before, during, and after successful deployment certification enables you to support your product running on the SAP NetWeaver CE 7.3 platform and also entitles you to have access to the SAP support infrastructure.

SAP support can be used to resolve technical issues encountered within SAP software or to obtain newer SAP support package stacks as they become available. For example, when you purchase a SAP NetWeaver Developer User license, you will:

- 1) Have access to the SAP support portal on the [SAP Service Marketplace](#). For example, in the SAP Support Portal, SAP customers can obtain their software via download, and also have access to other important information related to SAP software.
- 2) Request a [development name space](#) for your Java development.
- 3) Have access to valuable information regarding [SAP SLD](#) (SAP System Landscape Directory).
- 4) Have access to SAP supported software covered under your license agreement.
- 5) Have access to SAP support packages as they become available.
- 6) Have access to SAP notes (they help you to analyze and solve technical problems).
- 7) Have the capability to open up a trouble ticket and submit it to SAP support in order to resolve SAP errors.
- 8) Have access to information regarding the [SAP Service- and Support Infrastructure](#).

EE 5 Technical System Information

License Check:

Please provide below the information in regards to your SAP development license.

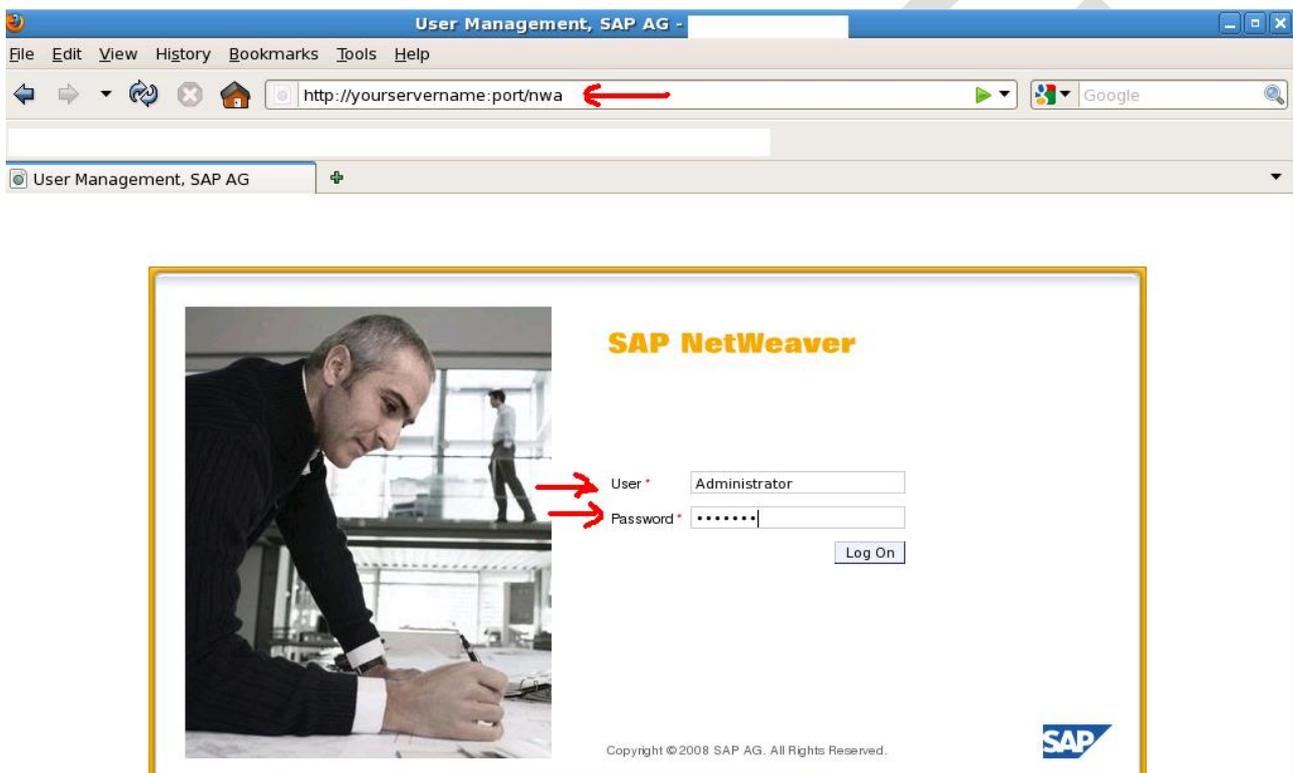
You obtain this information from the server which has your SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition installed.

First, please record in the table below your server's host name (the machine which has your **64 bit** SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition installed), the operating- and database system name and version used to start the SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition, the number and name of CPU's and the amount of RAM (physical memory of the server) the server has. Also, record the SAP Installation Number according to the results of your license check.

Hostname ----->	enter data here ...
64 bit operating system name and release -->	enter data here ...
Database name and release ----->	enter data here ...
Number of CPU's ----->	enter data here ...
Name and Type of CPU ----->	enter data here ...
Amount of RAM (physical memory) ----->	enter data here ...
SAP System ID (SID) ----->	enter data here ...
SAP Installation Number----->	enter data here ... This entry is mandatory

Second, for certification purposes, and in order to determine if you have the correct license installed, you will have to use the [SAP NetWeaver Administrator \(NWA\)](#) tool in order to view and locate the license information.

1. Within your browser, enter `http://<yourservername>:port/nwa`. For example, if you have a hostname called `wdfd00156398a` and are using the default port of `50000`, and then the URL syntax would be `http://wdfd00156398a:50000/nwa`. On the Welcome page as depicted below, enter a User ID and Password. Normally, the User ID is “Administrator” and the Password is the master password which you supplied during the SAP NetWeaver CE 7.3 installation.



2. Select Configuration Management and then the Infrastructure tab as depicted below.

The screenshot displays the SAP NetWeaver Administrator web interface. At the top, the title bar reads "SAP NetWeaver Administrator" and includes navigation links for "Personalize", "Back Forward", "History", "Site Map", "Help", and "Log Off". Below this, the user information is shown: "User: Administrator | Active Profile: Complete List | System: N1J On sapnta, v.7.30 | System Time/Date: 7/7/2011 9:28:33 AM GMT". A search bar is also present.

The main navigation area contains several tabs: "My Workspace", "Availability and Performance", "Operations", "Configuration", "Troubleshooting", and "SOA". The "Configuration" tab is highlighted with a red dashed box and a red arrow pointing to it. Below this, a sub-menu is visible with "Security", "Infrastructure", "Scenarios", and "Connectivity". The "Infrastructure" sub-tab is also highlighted with a red dashed box and a red arrow pointing to it.

The main content area is divided into two columns of configuration options, each with an icon and a brief description:

- Authentication and Single Sign-On**: Use the Authentication and Single Sign-On service to configure the authentication methods required for your applications. You can also configure the AS Java to support various Single Sign-On mechanisms such as HTTP-based cross-platform authentication using the Simple and Protected Negotiation Protocol (SPNEGO) and Security Assertion Markup Language (SAML) version 2.0, with which you can configure the AS Java to act as an identity provider, a service provider, or both.
- Identity Management**: The User Management Engine (UME) provides centralized user management for all Java applications and can be configured to work with user management data from multiple data sources. It is seamlessly integrated into the Application Server Java of the SAP NetWeaver Application Server for Java (AS for Java) as its default user store and can be administered using the administration tools of the AS Java.
- Trusted Systems**: You can use the trusted systems configuration to maintain the relationship between issuing and accepting systems.
- SSL**: Use SSL configuration to view and maintain all server-side SSL access points.
- Destinations**: Applications or services can establish connections to other services. When using connections of this type, you need to specify the remote service address and the user authentication information to use for the connection. Many applications use the Destination service for this purpose.
- Certificates and Keys**: Use the Key Storage service to maintain the server's personal security information where cryptography is supported, for example, when using the SSL protocol. You can create the server key pairs, generate the corresponding certificate signing requests, and maintain the list of trusted Certification Authorities (CAs) associated with the key pair. The Certificate Revocation Check service can verify that a certificate is not contained in a Certificate Revocation List (CRL).
- Virus Scan Provider**: You can use the virus scan interface to include external virus scanners in the SAP system to increase the security of your system. This means that you can use a high-performance integration solution to scan files or documents that are processed by applications for viruses. This applies both for applications delivered by SAP and for customer developments, for example, during data transfers across networks or when documents are exchanged using interfaces.

3. Select on the Infrastructure page Licenses as depicted below.

The screenshot shows the SAP NetWeaver Administrator interface. The top navigation bar includes tabs for 'My Workspace', 'Availability and Performance', 'Operations', 'Configuration', 'Troubleshooting', and 'SOA'. Under the 'Configuration' tab, there are sub-tabs for 'Security', 'Infrastructure', 'Scenarios', and 'Connectivity'. The 'Infrastructure' sub-tab is selected and highlighted with a red box. Below this, a list of configuration categories is shown, including 'Adobe Document Services', 'Application Resources', 'Destinations', 'Internationalization', 'JCo RFC Provider', and 'Licenses'. The 'Licenses' link is highlighted with a red arrow pointing to it from the left. To the right of the main content area, there are several informational cards for 'Application Modules', 'Java Configuration Browser', 'Java HTTP Provider Configuration', and 'Java Class Loader Viewer'.

Configuration

Security **Infrastructure** Scenarios Connectivity

Adobe Document Services Views
Configure and manage the Adobe Document Services (credentials, trusted anchors, certificate revocation lists, license information, caches, and job profiles)

Application Resources
The Application Resources plug-in provides functionality to create, manage, and delete external resources such as JDBC drivers, JDBC data sources, resource adapters, and connection factories. The administrator can view all resources or choose a specific resource type and select a resource from the resources list. He or she can view its details and the details of all antecedent and dependent resources.

Destinations Views
Applications or services can establish connections to other services. When using connections of this type, you need to specify the remote service address and the user authentication information to use for the connection. Many applications use the Destination service for this purpose.

Internationalization
Languages and Time Zone References

JCo RFC Provider
The JCo RFC Provider Service processes ABAP to Java requests, and dispatches the calls to Java applications. Seen from an ABAP system, it provides an RFC destination. Technically, the service is based on the JCo (SAP Java Connector). To receive calls from ABAP, JCo servers are started and registered at the gateways of the ABAP systems. The configuration of these JCo servers is done here.

Licenses
Manage licenses installed on the system.

Application Modules Views
This is a solution that contains details of the deployed applications as well as types of modules (such as Web and EJB modules) where configuration settings can be viewed and altered.

Java Configuration Browser
A browser of this type offers a detailed view of the configuration settings on the selected Java systems with all the property sheets and source files. This view is for information. To change the configuration of a system, use the configuration view of the local configuration tool.

Java HTTP Provider Configuration Views
Virtual Host can act as several different Web servers responding to different requests but referring only to a single real IP address. A user can gain flexibility by providing different configuration settings for each of the virtual hosts that can be both created and configured. Logon load balancing increases the efficiency of various workloads. To improve performance and system resource consumption, users are distributed across available application servers based on the requirements of workload and load sensitivity.

Java Class Loader Viewer
You can use the Java Class Loader Viewer to view the information provided by the Application Server Java about the class loaders currently available and to diagnose problems at a technical level. For each class loader, the viewer displays the parent, references, references, and resources (JAR files, directories with class resources, and so on). You can search for a specific class loader based on component type (application, common, interface, library, or service) or using name.

4. The results (Licenses: Java Licenses) by selecting Licenses as described in number 3 above should then look something like the figure depicted below. COPY YOUR LICENSE INFORMATION IN SCREENSHOT FORMAT INTO NUMBER 5 BELOW.

The screenshot shows the SAP interface for license management. The top section, titled "Available Licenses", contains a table with the following data:

License Status	License Type	Start Date	Expiration Date	Hardware Key	Software Product	System ID
valid	Temporary	06/Jul/2011	04/Oct/2011	L1103569738	J2EE-Engine_ADA	N1J

Below the table is the "Full License Details" section, which displays the following information:

License Status: valid
License Type: Temporary
Start Date: 06/Jul/2011
Expiration Date: 04/Oct/2011
Hardware Key: L1103569738
Software Product: J2EE-Engine_ADA
Software Product Limit: Unlimited
System ID: N1J
System Number: 000000000000000000
Installation Number: 0000000000

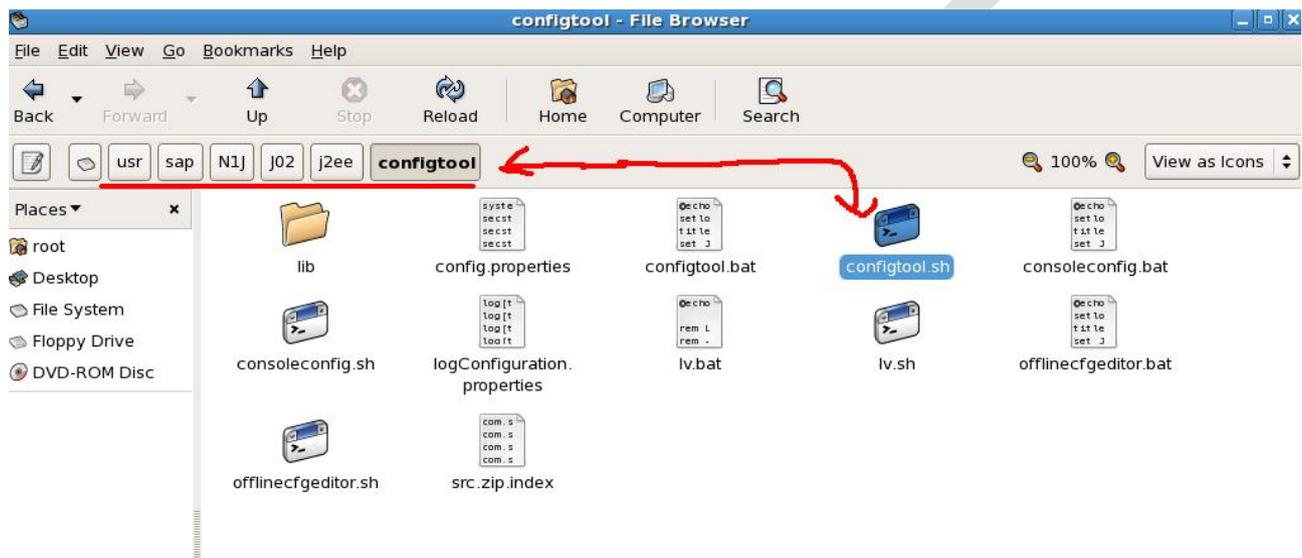
5. Copy your license information below as explained in number 4 above.

SAMPLE

System Information Check:

Please provide information below in regards to your installed SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition. **Remember, SAP support package 2 (SP2) or higher is needed in order to certify your product.**

You obtain this information using the **config** tool (filename is configtool.bat when SAP NetWeaver CE 7.3 is installed on a Windows 64 bit operating system and configtool.sh when installed under Linux or Unix). For example, in the figure depicted below, the config tool is located under the folder (/usr/sap/N1J/J02/j2ee/configtool).



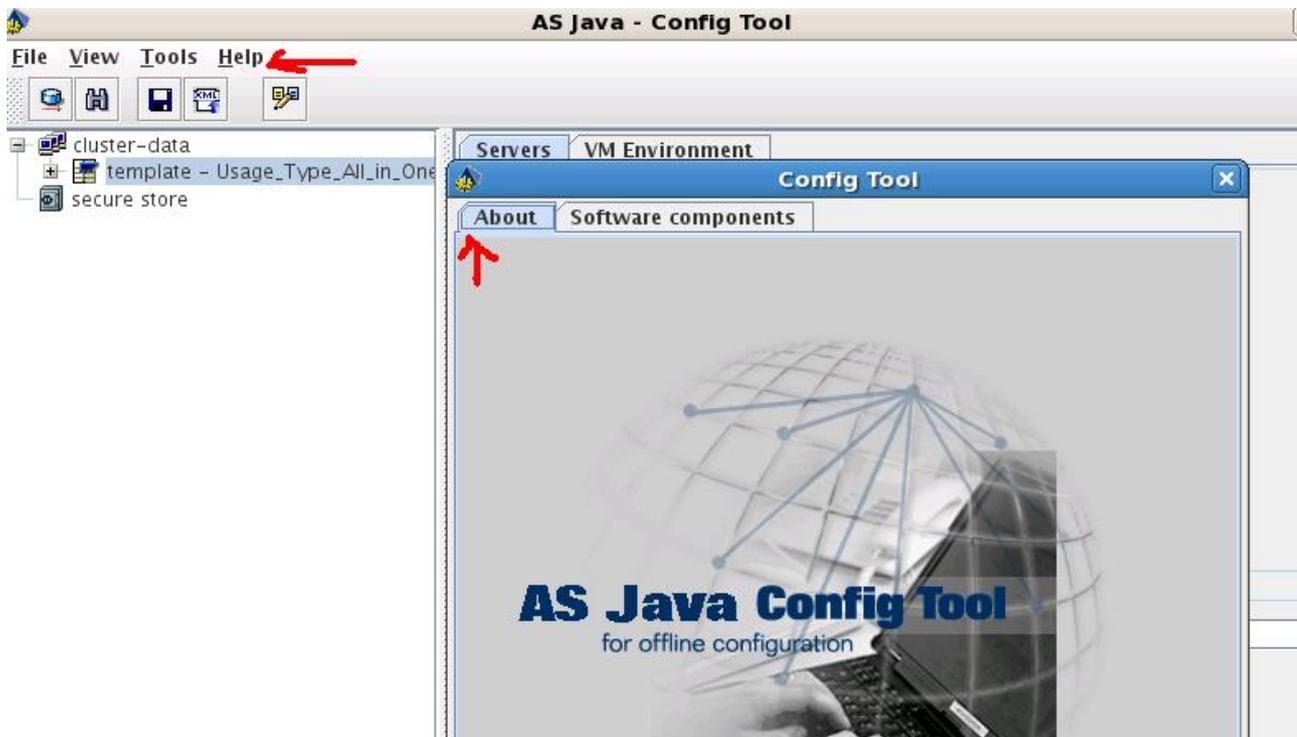
Once you start the config tool, provide us with the “Instance Profile” and then with the “Help -> About” information as depicted in the sample figures below (don’t worry about the comments written in red, they are just a description of what we are looking for). **Replace the examples below, with a screenshot** of your “Instance Profile” and also the “Help -> About” information.

At first how you can retrieve the information for the “Instance Profile”:

The screenshot shows the AS Java - Config Tool interface. The left pane displays a tree view of the configuration structure, with 'instance - ID255679 (sapn1a)' selected. The right pane shows the 'Instance Profile' tab, which contains a table of parameters and their values. Red arrows highlight specific values: '3159' for AMOUNT_MEMORY, '64' for OS_BITLENGTH, and the path for JAVA_HOME.

Parameter	Value
AMOUNT_MEMORY	3159
CPU_COUNT	2
DB_DRIVER_LOCATION	/sapdb/clients/N1J/runtime/jar/sapdbc.jar
ENQSRV_HOST	sapn1a
ENQSRV_PORT	3203
EXE_DIR	/usr/sap/N1J/J02/exe
FULL_INSTANCE_NAME	N1J_J02_sapn1a
INSTANCE_DIR	/usr/sap/N1J/J02
INSTANCE_HOST	sapn1a
INSTANCE_ID	255679
INSTANCE_NAME	J02
INSTANCE_NUMBER	02
JAVA_HOME	/usr/sap/N1J/J02/exe/sapjvm_6
MSGSRV_HOST	sapn1a
MSGSRV_PORT	3903
OS_BITLENGTH	64
OS_NAME	linuxx86_64
OS_UNICODE	uc
PROFILE	/usr/sap/N1J/SYS/profile/N1J_J02_sapn1a
SAPMYNAME	sapn1a_N1J_02
SHM_MONITORING_ENABLED	true
START_TIME	1310025496126
SYSTEM_INFO	cluster_config/system/instances/current_inst
SYSTEM_NAME	N1J
SYSTEM_TYPE	J2EE
SYS_DATASOURCE_NAME	SAPN1JDB
SYS_GLOBAL_DIR	/usr/sap/N1J/SYS/global
VM_VENDOR	sap
com.sap.InstanceNumber	255679
com.sap.SID	N1J
com.sap.datasource.default	SAPN1JDB
com.sap.engine.install.dir	/usr/sap/N1J/J02/inst

Next is the “Help -> About” dialog:



In the About dialog select the tab “Software components” to gain the information about the Service level:

The screenshot shows the 'AS Java - Config Tool' interface. The 'About' dialog is open, and the 'Software components' tab is selected. A table lists various software components with their names and counters. The 'JSPM' component is highlighted. A separate 'SCA Details' dialog box is open, showing the details for the selected component. Red arrows and text indicate that the patch level must be 2 or greater.

SCA Name	Counter
EP-BASIS	1000.7.30.0.0.20101021050900
EP-BASIS-API	1000.7.30.0.0.20101021050900
EP-CONNECTIVITY	1000.7.30.0.0.20101021050900
EP-CONNECTIVITY-EXT	1000.7.30.0.0.20101021050900
EP-RUNTIME	1000.7.30.0.0.20101021050900
EP-WPC	1000.7.30.0.0.20101021050900
EP_BUILDDT	1000.7.30.0.0.20101021022600
ESCONF_BUILDDT	1000.7.30.0.0.20101021022600
ESI-UI	1000.7.30.0.0.20101021092600
	1000.7.30.0.0.20101021061400
	1000.7.30.0.0.20101021060500
	1000.7.30.0.0.20101021060500
ESREG-SERVICES	1000.7.30.0.0.20101021060500
FRAMEWORK	1000.7.30.0.0.20101020230400
FRAMEWORK-EXT	1000.7.30.0.0.20101021065700
GROUPWARE	1000.7.30.0.0.20101021061500
J2EE-APPS	1000.7.30.0.0.20101020225500
J2EE-FRMW	1000.7.30.0.0.20101020225500
JSPM	1000.7.30.0.0.20101020225500
JWF	1000.7.30.0.0.20101021061500
KM-KW_JKS	1000.7.30.0.0.20101021065700
KMC-BC	1000.7.30.0.0.20101021061500
KMC-CM	1000.7.30.0.0.20101021061500
KMC-COLL	1000.7.30.0.0.20101021061500
KMC-WPC	1000.7.30.0.0.20101021061500

SCA Details

Name: JSPM
 Vendor: sap.com
 Component Type: SC
 Subsystem: NO_SUBSYS
 Location: SAP AG
 Counter: 1000.7.30.0.0.20101020225500
 SC Vendor: sap.com
 SC Name: JSPM
 Release: 7.30
 Service Level: 0
 Patch Level: 2
 Delta Version
 Update Version: coreNW730CE00RcurU20

Needs to be patch level 2 or greater

EE 5 Product Information

Please provide information below in regards to your J2EE / EE 5 application.

In the left hand column you are asked a question which you must answer in English in the right hand column.

Questions	Enter Your Answer Below
<p>1. J2EE Specification</p> <p>Does your product adhere to the J2EE 1.4 or Java EE 5 specification? Please don't confuse this with the version of the JDKs available (Java Development Kits, Java Virtual Machines etc.).</p> <p>With the SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition, the SAP EE 5 Application Server Java is J2EE 1.4 and EE 5 compliant.</p>	<p>Please select here ...</p>
<p>2. SAP JVM</p> <p>Does your product support the SAP JVM (Java Virtual Machine)? Please note, only the SAP JVM is supported during certification!</p>	<p>Please select here ...</p>
<p>3. J2EE/EE5 application server</p> <p>If you have an existing J2EE / EE 5 application, on which J2EE / EE 5 application server(s) does it run on?</p> <p>What J2EE specification does your existing application adhere to when it is either running on a J2EE SAP application server or on another J2EE / EE 5 application servers?</p> <p>What Java SDK does your application support when it is running on another J2EE / EE 5 application server? Please note, only the SAP JVM is supported during certification!</p> <p>See also "Migrating Existing Java EE Applications to AS Java".</p>	<p>Write your comments below</p>
<p>4. Architectural data</p> <p>Provide us with a list of all supported machine architectures, operating systems and databases (names and versions/releases are appreciated) for your (!) product.</p>	<p>Write your comments below</p>

<p>5. SCA/EAR file name</p> <p>What is the name and size of your J2EE or EE 5 application (SCA/EAR file name)?</p> <p>What are the name(s) and size(s) of the WAR and/or JAR archive(s) which are used by your J2EE application / EE 5 (EAR file)?</p> <p>According to SAP note 1223957 (you have access to the SAP note via the S user account you obtain by having purchased an SAP NetWeaver Developer User license) and the tool attached within the note, you will need to pack your EAR file into a SDA file (if not already available) and then pack your SDA file into a SCA file (if not already available). Do you know how to do this and why?</p> <p>Please note: You must deploy your application in the SCA file format due to SAP support requirements. Thus, you will deploy your application as either in the EAR / SDA file format and you must also deploy your application in the SCA file format.</p>	<p>Examples: myfavorite.ear file 40 MB, myfavorite.war 25 MB and / or myfavorite.jar 15 MB file. Write your comments below</p>
<p>6. SAP tools</p> <p>Are you familiar with the following tools:</p> <ul style="list-style-type: none"> • SAP Java EE 5 Development Tools • Assembling Components into Enterprise Applications • Tasks you might need to perform throughout the typical development cycle of your Java EE application(s)? 	<p>Write your comments below</p>
<p>7. Configuration</p> <p>Please describe what needs to be configured within the SAP NetWeaver CE 7.2 Application Server Java™ EE 5 Edition via the Config Tool, SAP NetWeaver Administrator, Application Server Java Configuration, SAP NetWeaver Developer Studio etc, in order for your J2EE / EE 5 application to work?</p>	<p>(For example, need to define a JDBC data source, need to load and deploy some libraries first in order to make them available for your J2EE / EE 5 application etc.). Write your comments below</p>

8. Third-party software

Does your J2EE / EE 5 application **make use of any other third-party software products/tools** in order for your application to work properly?

If yes, please list the name(s), version(s)/release(s) etc.

For example, your J2EE / EE 5 application, when it is deployed and started, makes use of a third-party product called xyz with release 1.0 which you obtained from company xyz. You successfully passed **JAVA-EE-NW 7.3** certification. Five months later, company xyz brings out a new release for the product called xyz, for example 1.5, which includes a lot of new functionality. You elect / need to use the third party product xyz with the new release 1.5 in order for your certified product to work. If this is the case, then you would need to recertify your product if it makes use of the product xyz based on release 1.5!

Write your comments below

<p>9. SAP Logging</p> <p>Does your J2EE / EE 5 application make use of any logging mechanisms? For example, log4j or your own logging features / framework?</p> <p>Please note: Your J2EE / EE 5 application has to make use of the SAP monitoring and logging framework since we will conduct error handling tests during certification, requiring your product to intentionally write log messages into the SAP monitoring and logging framework.</p> <p>Your application will need to generate intentional error messages making use of the SAP logging framework, which can then be used to identify and resolve problem cases in your application at customer site.</p> <p>You will need to use the SAP NetWeaver Administrator Tool to view the logs of your deployed application in order to analyze errors and resolve them. See also Developing Logging-Enabled Applications.</p> <p>See also “What’s New in SAP NetWeaver Composition Environment 7.3”.</p> <p>See also in the file called java ee nw 73.zip which you downloaded and extracted in the subfolder <i>“Other SAP Documents”</i> the file called SAP_Logging_Bridge_NW_CE_7.2.pdf. This document is <i>not only applicable for CE 7.2 but also applies to CE 7.3</i> and describes how to integrate 3rd party Java logging frameworks into the SAP logging framework.</p>	<p>Write your comments below</p>
<p>10. SAP SLD and SAP Solution Manager Ready</p> <p>Are you familiar with the SAP SLD (System Landscape Directory) and how it works?</p> <p>In case you do not have an existing and working SLD in your infrastructure during the time of certification, we then need a screenshot of the following information in the SAP NetWeaver Administrator tool after your SCA file has been successfully deployed:</p> <p>“Configuration Management” -> Infrastructure -> System Information -> Components Info -> Software Components</p> <p>In the “Software Components” section we must see the vendor, name, version, location of your deployed software component.</p>	<p>Write your comments below</p>

<p>11. SAP websites</p> <p>Are you familiar with important technical SAP web sites and what you can do or find there?</p> <p>http://service.sap.com Please describe briefly, the purpose of this site, and how it can help you? Please describe making use of a small example.</p> <p>http://help.sap.com Please describe briefly, the purpose of this site, and how it can help you? Please describe making use of a small example.</p> <p>http://www.sdn.sap.com Please describe briefly, the purpose of this site, and how it can help you? Please describe making use of a small example.</p>	<p>Write your comments below</p>
<p>12. Troubleshooting</p> <p>Do you know how to troubleshoot SAP NetWeaver CE 7.3?</p> <p>If you have an error which is preventing you from continuing with your integration work, you can also open up a SAP problem ticket, search for SAP notes, search for existing SAP problem tickets describing the type of error which you encountered. Just use your S-user account and if needed “Create a Customer Message” via the SAP Service Marketplace. If you remember, an S-user account is made available after purchasing a SAP NetWeaver Developer User license.</p> <p>You can also make use of the SAP Software Developer Network (SDN) and search in the forums or add a question in a forum in regards to the problem you are having. However, it is not mandatory for anybody to answer your question in regards to the problem you are having. Utilizing the official SAP support structure via the SAP service market place “guarantees you” that someone will reply in regards to your technical problem.</p>	<p>Write your comments below</p>
<p>13. Deployment descriptors</p> <p>Even though it is now optional in native Java EE 5 technology, what XML SAP deployment descriptors do you use in order to Create Enterprise Application Projects?</p>	<p>If applicable, list the names of the descriptors below</p>
<p>14. SAP JSPM</p> <p>Do you know the purpose of the SAP JSPM (Java Support Package Manager)?</p>	<p>Write your comments below</p>

<p>15. Clustering/Failover/Load Balancing/High Availability</p> <p>Are/is/can your J2EE / EE 5 application(s) make use of clustering, failover (XML schema element / attribute called fail-over-enable), load balancing, SAP NetWeaver AS Java high availability?</p> <p>Important: What are your customer expectations in regards to your application supporting or not supporting clustering and/or failover and or/load balancing and/or high availability? Who should handle these tasks? SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition? Your J2EE / EE 5 application? The hardware infrastructure in place at your customer's site etc? Other? Please explain.</p>	<p>Write your comments below</p>
<p>16. ABAP objects</p> <p>Does your certifiable solution rely on any self-developed ABAP objects (e.g. function modules, reports, transactions etc.)?</p> <p>If yes, are they located in your own registered namespace?</p> <p>In any case, please give us a complete list of all your ABAP objects. We will review this internally within ICC and if there is intensive use of ABAP development, eventually recommend an ABAP add-on certification.</p>	<p>Please explain, including namespace, ABAP objects (list all ABAP objects below)</p> <ol style="list-style-type: none"> 1. 2.....
<p>17. SAP WebDynpro</p> <p>Do you have a SAP Java WebDynpro application to certify?</p>	<p>Please explain if applicable or not. Also, please include the filename, size in MB etc.</p>

<p>18. Documentation</p> <p>Do you have a “Technical/Component Operations Manual” for your product?</p> <p>The content of this manual should be:</p> <ul style="list-style-type: none"> - Architecture and Overview of the Technical System Landscape. - Monitoring concept for your product. - Logging and tracing concept of the product. - Description of technical configuration data - Backup and restore procedures for your product - Maintenance of periodic tasks - High availability and load balancing concept - Listing of concepts for restart and monitoring of asynchronous interfaces - Starting and stopping of the component/product release. - Set up of printer(s) for your product. - How to perform Trouble shooting for typical problem situations. 	Write your comments below
<p>19. Configuration data store</p> <p>EE5 based components should preferably use the SAP Config Tool. If it is not possible for Java components to use the SAP Config tool, it would be acceptable that EE5 based components provide their configuration in XML or property files (human readable format).</p> <p>Is this the case for your product?</p>	Write your comments below
<p>20. Backup & Recovery</p> <p>Is online backup possible for your product and is there a documentation of the backup & recovery concept?</p>	Write your comments below

<p>21. Asynchronous interfaces</p> <p>Do all asynchronous interfaces have concepts for restart, monitoring and error handling?</p> <p>An appropriate monitoring and error handling for asynchronous interfaces must include:</p> <ul style="list-style-type: none"> - Interface status. - Capabilities to consistent stop and start of interface queues. - Error list showing status and error code of each object. - Volume statistic. - Load statistic. <p>If your product uses asynchronous interfaces then the concepts for consistent restart, monitoring and error handling must be provided. The following information shall be provided by the monitor:</p> <ul style="list-style-type: none"> - Status and length of inbound and outbound queues. - Object status. - Date and time of action. - Start/Stop/Restart possibility for the queues. <p>A restart and recovery concept must guarantee data consistency in case of crash recovery (crash of sending or receiving system). If there are special procedures to be considered, they must be described in detail in the Technical Operation Manual.</p>	<p>Write your comments below</p>
<p>22. User management</p> <p>Will your product provide User Management in the SAP environment?</p> <p>See also SAP User Management.</p>	<p>Write your comments below</p>
<p>23. Product user/group/roles</p> <p>Does your product provide any users/groups/roles and if yes are these documented?</p>	<p>Write your comments below</p>
<p>24. Authentication methods</p> <p>Will your product provide any authentication methods? If yes, please name them on the right column.</p>	<p>Write your comments below</p>

<p>25. Authentication policies</p> <p>Is it possible to configure authentication policies?</p> <p>Authentication policies are something like these ones:</p> <ul style="list-style-type: none"> - Minimum password length. - User locking. - Password change after first logon. - Password change. No hard-coded passwords are allowed in the product. <p>It is required to use the authentication mechanisms provided by SAP Netweaver, if your product runs on SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition.</p>	<p>Write your comments below</p>
<p>26. Authorization Mechanisms</p> <p>Will your product limit authorizations of business and technical users for both administration and productive use to the business related minimum?</p> <p>The product must provide the capability to separate the authorizations (roles) for different types of users (e.g. administrative and non-administrative users). Users must have the permissions that are required for their work (segregation of duties).</p> <p>The authorization concept must be documented (e.g. documented and delivered roles per business and technical user).</p> <ul style="list-style-type: none"> - Authorizations/roles have to be provided for the technical users like batch users, workflow users, communication users, Web service users. - All the external callable services of your product running on SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition have to be controlled by access controls (e.g. authority-checks). - Search results may contain sensitive data and thus have to be displayed based on the access permissions. - Your product must use or set the minimal necessary privileges on operating system and on file system level. - It is required to use the authorization management of SAP NetWeaver, if the product release is running on SAP NetWeaver CE 7.3 Application Server Java™ EE 5 Edition. 	<p>Write your comments below</p>
<p>27. Auditing</p> <p>Is it possible to log and archive data which is relevant for system audits (e.g. failed login attempts, start of critical transactions, changes to user data and authorizations, changes to configuration, etc.)?</p>	<p>Write your comments below</p>

<p>28. User information security</p> <p>Are the user information / data stored securely? For example, no transmission of clear text passwords. They must not be written to configuration files, logs, protocols, or traces or displayed. Authentication information should not be permanently stored on an end-user client.</p> <p>If yes, please describe on the right how you did reach this.</p>	<p>Write your comments below</p>
<p>29. Secure communication</p> <p>Can all used communication channels of your product be encrypted?</p>	<p>Write your comments below</p> <p>If yes describe how and if not why not.</p>
<p>30. Vulnerability prevention</p> <p>Does your product prevent typical vulnerabilities such as cross-site scripting, path traversal, SQL injection, execution of commands that include not-validated user input, and buffer overflow?</p> <p>More information on web application security can be found via the following link: http://www.owasp.org/index.php/OWASP_Top_Ten_Project</p>	<p>Write your comments below</p>
<p>31. Security documentation</p> <p>Are the security related topics fully covered by your provided documentation?</p>	<p>Write your comments below</p>

<p>32. Customizing & Configuration documentation</p> <p>Do you have the “Customizing & Configuration” documentation available for your product?</p> <p>This document should contain things like:</p> <ul style="list-style-type: none"> - Description of purpose and benefits of configuration and customizing a scenario / business process. - Overview of the scenarios / business processes. - Provides an overview on how different predefined behavior of the product release can be implemented according to foreseeable customer wishes. - Description how the scenarios / business processes and the objects of the product release can be realized specifically for a customer requirement. All steps needed to implement the scenarios / business processes. Sequence and description of the individual activities needed to configure and customize the individual business objects and their dependencies. 	<p>Write your comments below</p>
<p>33. Release Notes</p> <p>Do you have a “Release Notes” document available for your product?</p> <p>If the current release of your product is not the first release, provide information on what has changed versus the previous release of your product.</p>	<p>Write your comments below</p>
<p>34. Technical application documentation</p> <p>Do you have the “Technical application” documentation (no marketing documents) available for your product?</p> <p>Explain in this documentation on what the benefits of your software are and how it is used. Specify the target groups of this documentation and make sure that you tailor the documentation to the needs of your target groups (Consultants and system administrators for example need different information from business users).</p>	<p>Write your comments below</p>

<p>35. Installation documentation</p> <p>Do you have the “Installation Information” documentation available for your product?</p> <p>It should contain the description of the technical implementation of your product, taking into account the combinations of operating systems and databases. It provides detailed descriptions of preparation, execution and follow-up of an installation.</p>	Write your comments below
<p>36. Upgrade documentation</p> <p>Do you have the “Upgrade Information” documentation available for your product?</p> <p>This documentation contains the description of the technical upgrade of the product release, taking into account the combinations of operating systems and databases. It provides detailed descriptions of preparation, execution and follow-up of an upgrade.</p>	Write your comments below
<p>37. Master guide documentation</p> <p>Do you have the “Master Guide” documentation available for your product?</p> <p>The documentation is the starting point for implementing the product release:</p> <ul style="list-style-type: none"> - Overview on product release, its component versions and its scenarios / business processes from a technical perspective. - “Software Component Matrix” showing which components are required for which scenario / business process. - Information if component release is mandatory or optional for a specific scenario / business process. - Information on system landscape containing a minimal system landscape. Ideally also a typical or maximum deployment landscape. Focus is to show how the installable component releases can be distributed to systems, which instances can be combined in one system and which instances need a separate system. - Technology that is used by the product release. - Overall Implementation sequence including a description of preparation, execution, and follow-up of an implementation (possibly scenario specific, if appropriate). - Lists the steps required to install the component releases in the appropriate order. - Refers to the corresponding installation or configuration documentation for the individual component release. 	Write your comments below

<p>38. Terms and definitions documentation</p> <p>Do you have the “Terms and definitions” documentation available for your product?</p> <p>Here you should mention and publish all important terms and their definition. These must then be used consistently throughout the software interface and the documentation!</p>	Write your comments below
<p>39. Technical Interface documentation</p> <p>Do you have the “Technical Interface” documentation available for your product?</p> <p>E.g. any programming interfaces that are relevant for customers or consultants</p>	Write your comments below

<p>40. <u>Functional product description / main features</u></p> <p>Please provide a <u>brief overview in English</u> of the product you will deploy on your 64 Bit SAP NetWeaver CE 7.3 Application Server.</p>	
<p>Propose at least five functional test cases for your product. They are part of the certification test, called the functional test.</p>	
Test 1	Type in here.....
Test 2
Test 3	
Test 4	
Test 5	

41. Product error handling and logging description

Please provide a **brief overview in English** of how error handling and logging of your J2EE / EE 5 product are conducted once your J2EE / EE 5 application has been deployed on your 64 Bit SAP NetWeaver CE 7.3 Application Server.

Propose at least five error and logging test cases for your product. They are part of the certification test, called the error and logging functional test. The test cases will be verified using the [SAP NetWeaver Administrator](#) (NWA) tool.

Test 1	Type in here.....error xyz should bring in the log the message “xyz error 1234 encountered “ etc.
Test 2
Test 3	
Test 4	
Test 5	