SAP NetWeaver Developer Workplace SR1 (SPS06) – part 5 (JSPM SPS06 to SPS09)

Before you start
Please check the document called **SAP NetWeaver Developer Workplace SR1 (SPS06) – part 5a (JSPM SPS06 to SPS09)** in order to see if any updated information is available to the information included in this document.
Also, make sure you have the publicly released SAP document called **SAP NetWeaver 2004s Support Package Stack Guide – SPS09** available paying close attention to the information contained in section **2.2 to 2.2.3**.

Developer Workplace installation backup
Before you proceed with the things mentioned below, please make sure you have a backup of your system. This includes the operating system and the SAP NetWeaver Developer Workplace SR1 (SPS06).

Using JSPM to ugrade your SAP NetWeaver Developer Workplace SR1 (SPS06)
You will use JSPM to upgrade your SAP NetWeaver Developer Workplace SR1 (SPS06) installation to SPS09 (details are described below).

What is JSPM?
Starting with SAP NetWeaver 2004s, the (**JSPM**) Java Support Package Manger is used for applying Support Packages for SAP NetWeaver Application Server Java (AS-Java) and all Java-based software components running on it. JSPM becomes the **only valid** tool for applying Support Packages and Support Package Stacks.
SAP strongly recommends that you apply a particular Support Package Stack to a Java system as a whole. This ensures consistency on both the system and the application levels.

Where is more information available about JSPM?
You can find more information about JSPM at http:///help.sap.com -> In the Overview section select -> SAP NetWeaver -> SAP NetWeaver 2004s (English language) -> SAP Library -> Technical Operations Manual for SAP NetWeaver   Administration of SAP NetWeaver Systems -> AS Java (Application Server for Java) -> Software Logistics -> Software Maintenance -> under Tools select Java Support Package Manger (JSPM) as depicted in the figure below.

What's important to know about SAP Java Support Packages?
Java Support Package files called SCAs (Software Component Archive) contain all software objects for a corresponding SAP software component. Thus, it is sufficient to apply the Java Support Package files of the intended Support Package Stack directly to the Java system to be updated. It is not necessary to apply all the Support Package Stacks from the start SP Stack (let's called it your Source Stack) to the target SP Stack successively.

When applying Support Packages to a Java system, the Java Support Package Manager (JSPM) will necessarily restart the system several times to make the changes effective.

Some examples, what SCA file look like.

File	Description	Side E.	Info File	Component Version	Instantiation
☑ ADSSAP09_0-10003001.SCA	SP09 for ADOBE DOCUMENT SERVICES 7.00		Info	ADOBE DOCUMENT SERVICES 7.00	#OS independent
☑ BIMMR09_0-10002782.SCA	SP09 for BI META MODEL REPOSITORY 7.00		Info	BI META MODEL REPOSITORY 7.00	#OS independent
☑ BIUDI09_0-10002781.SCA	SP09 for BI UDI 7.00		Info	BI UDI 7.00	#OS independent
☑ SAPEU09_0-10003026.SCA	SP09 for CAF EU 7.00		Info	CAF EU 7.00	#OS independent
☑ SAPBUILDT09_0-10003479.SCA	SP09 for DI BUILD TOOL 7.00		Info	DI BUILD TOOL 7.00	#OS independent
☑ DICMS09_0-10003499.SCA	SP09 for DI CHANGE MGMT SERVER 7.00		Info	DI CHANGE MGMT. SERVER 7.00	#OS independent
☑ DICBS09_0-10003500.SCA	SP09 for DI COMPONENT BUILD SERVER 7.00		Info	DI COMPONENT BUILD SERVER 7.00	#OS independent
☑ DIDTR09_0-10003501.SCA	SP09 for DI_DESIGN TIME REPOSITORY 7.00		Info	DI DESIGN TIME REPOSITORY 7.00	#OS independent
☑ EPBUILDT09_0-10003786.SCA	SP09 for EP BUILD TOOL 700		Info	EP BUILD TOOL 7.00	#OS independent
☑ BASETABLES09_0-10003462.SCA	SP09 for J2EE ENGINE BASE TABLES 7.00		Info	J2EE ENGINE BASE TABLES 7.00	#OS independent
☑ CORETOOLS09_0-10003456.SCA	SP09 for J2EE ENGINE CORE TOOLS 7.00		Info	J2EE ENGINE CORE TOOLS 7.00	#OS independent
☑ JLOGVIEW09_0-10003465.SCA	SP09 for JAVA LOG VIEWER 7.00		Info	JAVA LOG VIEWER 7.00	#OS independent
☑ JSPM09_0-10003470.SCA	SP09 for JAVA SP MANAGER 7.00		Info	JAVA SP MANAGER 7.00	#OS independent
☑ KMCBC09_0-10003491.SCA	SP09 for KMC BASE COMPONENTS 7.00		Info	KMC BASE COMPONENTS 7.00	#OS independent
☑ KMCCOLL09_0-10003493.SCA	SP09 for KMC COLLABORATION 7.00		Info	KMC COLLABORATION 7.00	#OS independent
☑ KMCCM09_0-10003492.SCA	SP09 for KMC CONTENT MANAGEMENT 7.00		Info	KMC CONTENT MANAGEMENT 7.00	#OS independent
☑ LMPORTAL09_0-10003487.SCA	SP09 for LIFECYCLE MGMT PORTAL 7.00		Info	LIFECYCLE MGMT PORTAL 7.00	#OS independent
☑ LMTOOLS09_0-10003486.SCA	SP09 for LIFECYCLE MGMT TOOLS 7.00		Info	LIFECYCLE MGMT TOOLS 7.00	#OS independent

Why do I need to understand JSPM for J2EE-DEP 7.0 Installation/Deployment certification integration on SAP NetWeaver 21004s?

From time to time, in order to support customers properly, SAP brings out support packages in order to remove bugs. Actually, this is nothing negative, but a clear commitment from SAP, that we want to support our customers in achieving their business objectives. From an ISV (Independent Software Vendor -> this is you) perspective, and in order for you to also be successful with your J2EE deployment certification work, you might need a specific SAP support package stack in order to pass certification successfully. For example, you are trying to deploy your J2EE application on our J2EE engine, but are not successful due to a bug in the SAP software. Also let's assume you are using the SAP NetWeaver Stack 2004s based on Support Package SPS07. SAP support analyzes together with you the problem you are having, and determine if a SAP bug fix is necessary. SAP provides you with a bug fix in Support Package Stack SPS09. You obtain the Support Package SPS09 from our SAP Service Market Place, and apply it with the JSPM tool. You now retry your J2EE deployment and it works. You are now able to pass certification, which wouldn't have been the case, if SAP didn't provide a bug fix and you didn't know how to apply the fix. After passing certification, you are now able to sell your product to an SAP customer who eagerly waited for you to have the product certified.

What's needed before I get started?

Make sure you have installed **SAP NetWeaver 2004s SR1** (Service Release 1 based on Support Package Stack SPS06, also known as **your Source Stack** when applying future **Support Packages** which are called **Target Stacks**).
SAP NetWeaver 2004s SR1 based on SPS06 is not sufficient to use for certification purposes. A so called SAP unrestricted shipment (URS) version is needed. This is nothing more than a SAP release which can be used in production. For certification purposes we need to use a support package stack **SPS07 or greater**, for example, at least SPS07, SPS08 or SPS09 or later.

With Java support packages, as already indicated above, you can skip individual support packages (unless otherwise indicated) in order to upgrade from an existing support package on to a newer one. For example, with SAP NetWeaver 2004s SR1 SPS06, you don't need to upgrade from SPS06 to SPS07, then from SPS07 to SPS08, and then from SPS08 to SPS09, but rather skip the support packages SPS07 and SPS08 and upgrade directly from SPS06 to SPS09. An exception could be, if SAP support otherwise indicates that a specific support package is necessary before upgrading to another one.

SAP NetWeaver 2004s SR1 is a new installation version SAP NetWeaver 2004s which includes Support Package Stacks 01 to 06. It is a new set of SAP software packages with a significant step towards simpler installation of SAP NetWeaver 2004s to the latest Support Package Stack level.

Why do we start with SAP NetWeaver 2004s SR1?
Well, let's call SAP NetWeaver 2004s SR1 as the foundation to build on. Thus, everybody starts with the same support package level, and builds on top of this one, by applying newer support packages as they become available. Also, if we remember, the file delivery format of SAP Java support packages has the file extensions SCA, which you can't simply install without utilizing for example JSPM.
SAP NetWeaver 2004s SR1 is delivered in a file format, which will allow you to start the SAP installation program called SAPinst in order to install your foundation and subsequently deploy SAP support packages as they become available. This foundation which you build on, from a J2EE – DEP 7.0 certification purpose, is called "**Developers Workplace for SAP NetWeaver 2004s SR1**".

Why do I need a Developers Workplace for SAP NetWeaver 2004s installed?
The Developers Workplace for SAP NetWeaver 2004s is an excellent test environment to use in order to prepare and go through a certification. If you want to become **PBNW (Powered by NetWeaver)** certified, most of the time you elect to code a J2EE application (this is called the backend) and a SAP Portal (this called the frontend). So you need a test environment, which contains the SAP J2EE engine, a database in order for the J2EE engine to start, a Java development environment called the SAP NetWeaver Developer Studio which is based on Eclipse 2.1.2, and the SAP Portal.
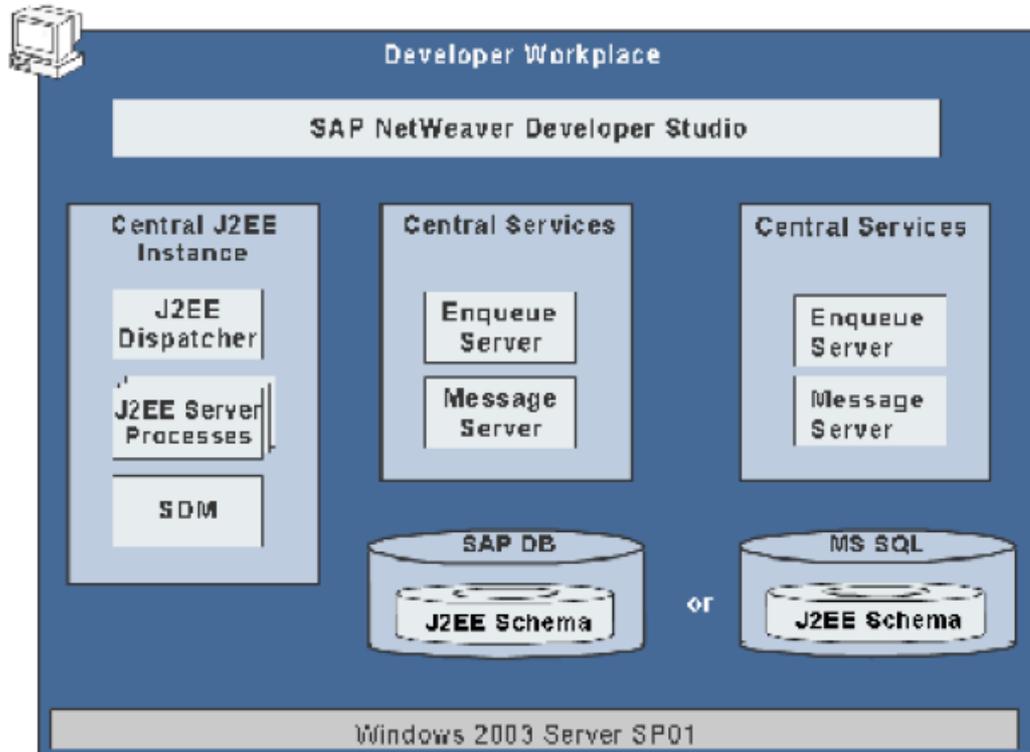
First things first before you start using JSPM

Before you start, make sure you have read all the documentation to JSPM
(http://help.sap.com/nw04s -> JSPM) and also reviewed and taken into account the contents
of the SAP notes **891983 (JSPM: Central SAP Note SAP NetWeaver 2004s AS Java)** and
971765 (JSPM cannot deploy SDMKit.jar archive).

Step 1: Make sure before you use the JSPM the first time, you've made the adjustments
according to **SAP note 971765**. An excerpt of the note is depicted below.

Symptom

Java Support Package Manager (JSPM) of SAP NetWeaver 2004s stops at
the Specify Queue wizard step during validation of the support package
queue.
In the following log file of the current logon session,
JSPM_PROCESS_<XXX>.LOG or JSPM_MAIN_<XXXX>.LOG, you can find the
following error:
Assertion failed for (Could not parse version string content. For input string:
"${SP-PatchLevel}")

Other terms

SAP NetWeaver; Java Support Package Manager; JSPM; Assertion failed for
(Could not parse version string content. For input string:
"${SP-PatchLevel}"; Specify Queue;

Reason and Prerequisites

The error has occurred because SDM's version.txt file contains misleading information of the
current SP version.

Solution
1. Stop JSPM.
2. Open the file /usr/sap/<SID>/<JC|DVEBMGSxx>/SDM/program/version.txt.
   (PLEASE NOTE: The file is located under **D:\usr\sap\J2E\JC01\SDM\program**
    if you only installed the SAP J2EE stack according to SAP ICC instructions).
3. In the version.txt file change the line **SP-PatchLevel: ${SP-PatchLevel}**
   to **SP-PatchLevel: 0**
4. Save the changes.
5. Start JSPM.

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Step 2: Download all the relevant **SAP NetWeaver 2004s** J2EE support packages from the SAP service market place. As your source stack enter 06 (02/2006) and as your target stack enter 09 (09/2006). Make use of the SAP Software Download Manager and add all the support packages you need to your Download basket in order to ensure that the JSPM can upgrade your system properly (see examples depicted below).

A) Choose your Source Stack and Target Stack (Step 1 of 3):

B) Choose Configuration (Step 2 of 3):

C) Downloadable Support Packages (Step 3 of 3):
You need to select all packages relevant to your installation, including the SAP
tool called SAPCAR (see section **A.2.1 SAPCAR** in the **SAP NetWeaver 2004s
Support Package Stack Guide – SPS09**).

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Support Package Stack Guide

**SAP NetWeaver 2004s
Support Package
Stack Guide — SPS09**

Target Audience
■ Implementation Consultants
■ System Administrators

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Which support packages need to be selected, are described in the **SAP NetWeaver 2004s Support Package Stack Guide – SPS09** (the name of the guide at the time of this writing). In the future SPS09 will be followed by SPS10, 11, 12 etc).
You need to read through the stack guide, paying close attention to the information contained in section **2.2 Application Server Java and Java- Based Software Components** -> **2.2.1 Planning** -> ….the following components belong to the usage type SAP NetWeaver Application Server Java.

2.2 Application Server Java and Java-Based Software Components

Starting with SAP NetWeaver 2004s, the Java Support Package Manager (JSPM) is used for applying Support Packages for SAP NetWeaver Application Server Java (AS-Java) and all Java-based software components running on it. JSPM becomes the **only valid** tool for applying Support Packages and Support Package Stacks.

Recommendation
SAP strongly recommends that you apply a particular Support Package Stack to a Java system as a whole. This ensures consistency on both the system and the application levels.

2.2.1 Planning

Java Support Package files (SCAs) contain all software objects of the corresponding software components. Thus it is sufficient to apply the Java Support Package files of the intended Support Package Stack directly to the Java system to be updated. It is **not** necessary to apply all the Support Package Stacks from the start SP Stack to the target SP Stack succesively.

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2   Applying Support Packages to Installable Software Units of SAP NetWeaver 2004s
2.2   Application Server Java and Java-Based Software Components

Caution
When applying Support Packages to a Java system, the Java Support Package Manager (JSPM) will necessarily restart the system several times to make the changes effective. In case of a dual-stack system (ABAP + Java), the ABAP part will be restarted along with the Java part.

The following components belong to the usage type SAP NetWeaver Application Server Java:

Software components of Application Server Java

Component to Be Updated	SP File Name	Tool Used to Apply SP
SAP Kernel 7.00 32-/64-BIT UNICODE	SAPEXE.SAR SAPEXEDB.SAR	JSPM
SAP IGS 7.00	igsexe.sar	
BI META MODEL REPOSITORY 7.00	BIMMR<SP>_<PL>.SCA	
J2EE ENGINE CORE TOOLS 7.00	CORETOOLS<SP>_<PL>.SCA	
J2EE ENGINE BASE TABLES 7.00	BASETABLES<SP>_<PL>.SCA	
BI UDI 7.00	BIUDI<SP>_<PL>.SCA	
SAP CAF 7.00	CAF<SP>_<PL>.SCA	
SAP_IKS_7.00	KMKWJIKS<SP>_<PL>.SCA	
JAVA LOG VIEWER 7.00	JLOGVIEW<SP>_<PL>.SCA	
SAP J2EE ENGINE CORE 7.00	SAPJEECOR<SP>_<PL>.SCA	
SAP JAVA TECH SERVICES 7.00	SAPJTECHS<SP>_<PL>.SCA	
SAP TECH S 7.00 OFFLINE	SAPJTECHF<SP>_<PL>.SCA	
SAP J2EE ENGINE 7.00	SAPJEE<SP>_<PL>.SCA	
JAVA SP MANAGER 7.00	JSPM<SP>_<PL>.SCA	
ADOBE DOCUMENT SERVICES 7.00	ADSSAP<SP>_<PL>.SCA	
UME ADMINISTRATION 7.00	UMEADMIN<SP>_<PL>.SCA	
LIFECYCLE MGMT TOOLS 7.00	LMTOOLS<SP>_<PL>.SCA	
SAP CAF-UM 7.00	CAFUM<SP>_<PL>.SCA	
SAP STARTUP FRAMEWORK 7.00		
SAP SOFTW.DELIV.MANAGER 7.00	SDMKIT.JAR	

Note
This table contains only software components that belong to the usage type AS-Java. Software
components of other usage types and Java application units are listed in the corresponding sections.

It is also a good idea, to generate or create a support package stack XML file, as described in
SAP note 884537 - Benefit and use of the Support Package Stack XML.
Please read this note and follow the instructions.

Step 3: Copy the downloaded files to the directory called **D:\usr\sap\trans\EPS\in**. This
should look something similar as depicted below:
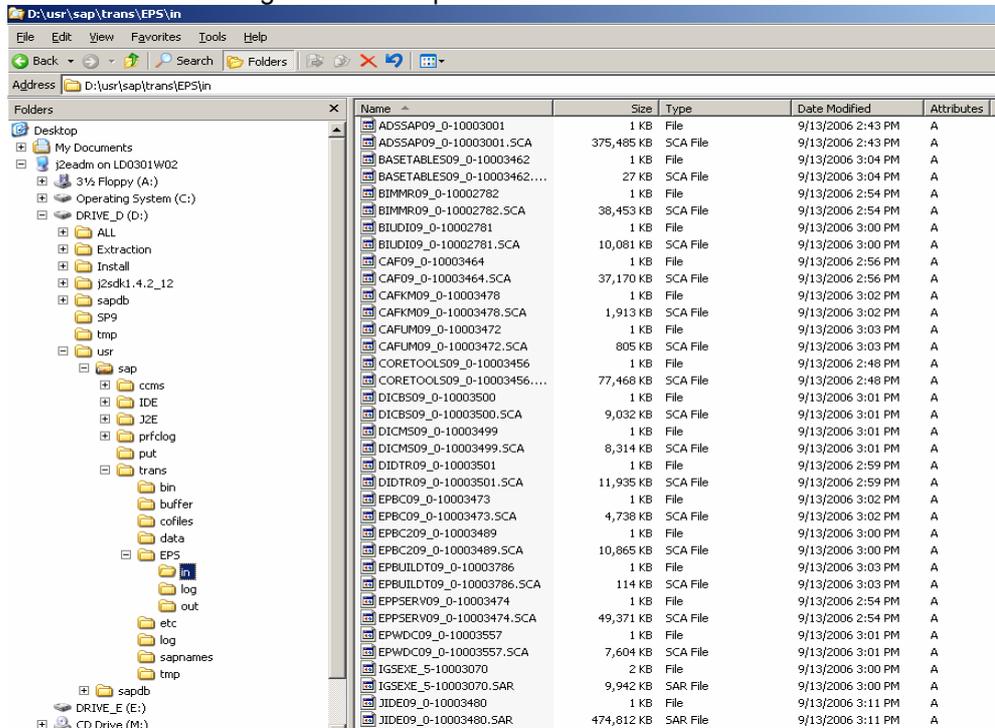
File	Size	Type	Date	
JLOGVIEW09_0-10003465	1 KB	File	9/13/2006 2:58 PM	A
JLOGVIEW09_0-10003465.SCA	20,510 KB	SCA File	9/13/2006 2:58 PM	A
JSPM09_0-10003470	1 KB	File	9/13/2006 2:57 PM	A
JSPM09_0-10003470.SCA	27,929 KB	SCA File	9/13/2006 2:57 PM	A
KMCBC09_0-10003491	1 KB	File	9/13/2006 3:01 PM	A
KMCBC09_0-10003491.SCA	5,671 KB	SCA File	9/13/2006 3:01 PM	A
KMCCM09_0-10003492	1 KB	File	9/13/2006 2:56 PM	A
KMCCM09_0-10003492.SCA	34,578 KB	SCA File	9/13/2006 2:56 PM	A
KMCCOLL09_0-10003493	1 KB	File	9/13/2006 2:59 PM	A
KMCCOLL09_0-10003493.SCA	11,444 KB	SCA File	9/13/2006 2:59 PM	A
KMKWJIKS09_0-10003021	1 KB	File	9/13/2006 3:03 PM	A
KMKWJIKS09_0-10003021.SCA	955 KB	SCA File	9/13/2006 3:03 PM	A
LMPORTAL09_0-10003487	1 KB	File	9/13/2006 3:05 PM	A
LMPORTAL09_0-10003487.SCA	8 KB	SCA File	9/13/2006 3:05 PM	A
LMTOOLS09_0-10003486	1 KB	File	9/13/2006 2:52 PM	A
LMTOOLS09_0-10003486.SCA	52,260 KB	SCA File	9/13/2006 2:52 PM	A
NETPDK09_0-10004046	1 KB	File	9/13/2006 3:02 PM	A
NETPDK09_0-10004046.SCA	1,137 KB	SCA File	9/13/2006 3:02 PM	A
RTC09_0-10003494	1 KB	File	9/13/2006 3:03 PM	A
RTC09_0-10003494.SCA	1,077 KB	SCA File	9/13/2006 3:03 PM	A
RTCSTREAM09_0-10003488	1 KB	File	9/13/2006 3:03 PM	A
RTCSTREAM09_0-10003488....	88 KB	SCA File	9/13/2006 3:03 PM	A
SAPBUILDT09_0-10003479	1 KB	File	9/13/2006 2:57 PM	A
SAPBUILDT09_0-10003479.SCA	26,637 KB	SCA File	9/13/2006 2:57 PM	A
SAPCAR_0-10003694	2,672 KB	File	9/13/2006 1:44 PM	A
SAPEU09_0-10003026	1 KB	File	9/13/2006 2:50 PM	A
SAPEU09_0-10003026.SCA	66,454 KB	SCA File	9/13/2006 2:50 PM	A
SAPEXE_75-20000972	58 KB	File	9/13/2006 2:46 PM	A
SAPEXE_75-20000972.SAR	157,251 KB	SAR File	9/13/2006 2:46 PM	A
SAPEXEDB_75-10003442	57 KB	File	9/13/2006 3:01 PM	A
SAPEXEDB_75-10003442.SAR	5,518 KB	SAR File	9/13/2006 3:01 PM	A
SAPEXEDB_75-10003443	58 KB	File	9/13/2006 3:01 PM	A
SAPEXEDB_75-10003443.SAR	6,502 KB	SAR File	9/13/2006 3:01 PM	A
SAPJEE09_0-10003469	1 KB	File	9/13/2006 2:51 PM	A
SAPJEE09_0-10003469.SCA	55,355 KB	SCA File	9/13/2006 2:51 PM	A
SAPJEECOR09_0-10003466	1 KB	File	9/13/2006 2:55 PM	A
SAPJEECOR09_0-10003466.S...	37,853 KB	SCA File	9/13/2006 2:55 PM	A

File	Size	Type	Date	
SAPJEECOR09_0-10003466.S...	37,853 KB	SCA File	9/13/2006 2:55 PM	A
SAPJTECHF09_0-10003468	1 KB	File	9/13/2006 2:53 PM	A
SAPJTECHF09_0-10003468.SCA	51,584 KB	SCA File	9/13/2006 2:53 PM	A
SAPJTECHS09_0-10003467	1 KB	File	9/13/2006 2:49 PM	A
SAPJTECHS09_0-10003467.SCA	73,843 KB	SCA File	9/13/2006 2:49 PM	A
SDMKIT09_0-10003463	1 KB	File	9/13/2006 3:00 PM	A
SDMKIT09_0-10003463.JAR	9,621 KB	Executable Jar File	9/13/2006 3:00 PM	A
SPSTab.xml	45 KB	XML Document	9/13/2006 2:28 PM	A
UMEADMIN09_0-10003471	1 KB	File	9/13/2006 3:02 PM	A
UMEADMIN09_0-10003471.SCA	5,286 KB	SCA File	9/13/2006 3:02 PM	A
UWLJWF09_0-10003490	1 KB	File	9/13/2006 2:59 PM	A
UWLJWF09_0-10003490.SCA	17,640 KB	SCA File	9/13/2006 2:59 PM	A
VCBASE09_0-10003602	1 KB	File	9/13/2006 3:02 PM	A
VCBASE09_0-10003602.SCA	4,343 KB	SCA File	9/13/2006 3:02 PM	A
VCFLEX09_0-10003616	1 KB	File	9/13/2006 2:58 PM	A
VCFLEX09_0-10003616.SCA	21,506 KB	SCA File	9/13/2006 2:58 PM	A
VCFRAMEWORK09_0-10003624	1 KB	File	9/13/2006 3:02 PM	A
VCFRAMEWORK09_0-100036...	1,982 KB	SCA File	9/13/2006 3:02 PM	A
VCKITGP09_0-10003617	1 KB	File	9/13/2006 3:05 PM	A
VCKITGP09_0-10003617.SCA	21 KB	SCA File	9/13/2006 3:05 PM	A
VCKITXX09_0-10003615	1 KB	File	9/13/2006 3:04 PM	A
VCKITXX09_0-10003615.SCA	21 KB	SCA File	9/13/2006 3:04 PM	A
WDEXTENSIONS09_0-10003618	1 KB	File	9/13/2006 3:02 PM	A
WDEXTENSIONS09_0-100036...	3,674 KB	SCA File	9/13/2006 3:02 PM	A

Make sure you also read in the **SAP NetWeaver 2004s Support Package Stack Guide – SPS09** the section called **A.2.3 Java Support Package Manager**, for example the reference made to **SAP note 891983**, the JSPM inbox and which files need to be copied into this inbox, SAPCAR which needs to be downloaded from the service market place and be available in the JSPM inbox, and last but not least, that YOU FIRST MUST UPGRADE YOUR EXISTING JSPM TOOL TO THE NEWER SUPPORT PACKAGE LEVEL before applying the rest of the SPS09 support package (see example depicted below).

A.2.3 Java Support Package Manager

Starting with SAP NetWeaver 2004s, the Java Support Package Manager (JSPM) is used for applying Support Packages to SAP NetWeaver Application Server Java (AS-Java) and all components running on top of it. JSPM is able to update all integral parts of a Java system, which includes:

- Kernel and other native OS level binaries that are installed with the NetWeaver AS Java
- JSPM itself and the deployment service of the system (currently the SDM)
- All installed Java usage types in the system

⚠ Caution
Before using the Java Support Package Manager, see SAP Note 891983.

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A   Appendix
A.2   Tools Used During the System Update

Prerequisites

- Make sure that all Support Packages to be applied are in the JSPM inbox. The JSPM inbox is a file system directory and resides at <DIR_EPS_ROOT>/in. <DIR_EPS_ROOT> is a profile parameter and can be defined in the central instance profile. The default value is /usr/sap/trans/EPS.
- The Support Packages for the kernel and other OS level binaries are delivered as SAR files. Make sure that your current SAPCAR tool is able to extract these files.

⬆ Recommendation
You can download the latest version of SAPCAR from the SAP Service Marketplace at service.sap.com/patches → Entry by Application Group → Additional Components → SAPCAR. Put the downloaded version in the same directory in the JSPM inbox in which the kernel SAR files reside so that JSPM can use this version for extracting the SAP files.

Procedure

To apply Support Packages of the NetWeaver AS Java and components running on it, proceed as follows:

1. Log on to the Central Instance host as user <sid>adm.
2. Close the SAP Management Console (MMC) and the SDM remote GUI client.
3. To start the JSPM, change to <INSTDIR>/<SAPSID>/<Central-Instance>/j2ee/JSPM and call the go script.

💡 Note
Depending on the system type, <Central-Instance> has the following syntax:
- Standalone Java system: JC<instance_no>
- Add-in Java system: DVEBMGS<instance_no>

4. Enter the SDM password to log on to the SDM.
5. In the *Deployment* tab, select one of the following options:

5. In the *Deployment* tab, select one of the following options:
   - *Support Package Stack*
   - *Single Support Packages*

   and choose *Next*.

   > **Note**
   > The option *New Software Components* is irrelevant in this context.

   If the system to be updated is a system in a NWDI-controlled landscape, specify the role of the system accordingly.

6. Depending on the selected package type in the previous step, do one of the following:
   - Select the Support Package stack to be applied in the *Target SP Level* drop-down box and choose *Next*.
   - Select the appropriate Support Package level for the Support Packages to be applied in the *Target SP Level* drop-down box and choose *Next*.

   At this step, JSPM performs various status validations and displays the result of each software component selected or included in the stack definition on the subsequent screen, which includes following the possible states:
   - OK: Indicates that the SP of the corresponding software component is applicable.

A   Appendix
A.2   Tools Used During the System Update

   - WARNING: Indicates that the corresponding software component comprises custom modifications in a NWDI-controlled system.
     The deployment can be performed.
   - REVISE: Indicates inconsistencies with the corresponding software component.
     The deployment **cannot** be performed until all problems have been resolved. You can view the problems by choosing View Details.

7. If the status of the selected Support Packages or Support Package stack is appropriate, choose *Next* to start the system update.
   The JSPM starts the deployment of the selected support package stack and the status changes to SCHEDULED.

   > **Note**
   > If there are Dialog Instances running, JSPM will request that you stop all Dialog Instances manually.

   > **Note**
   > If a system restart is necessary for the system update, the system will inform you accordingly. The system restart will be performed immediately as you have clicked *Next*. Make sure that there are no active users working in the system!

   > **Note**
   > If the selected Support Packages or the selected SP stack includes a JSPM update, JSPM will request that

you restart the JSPM after it has been updated. In this case, you can relaunch the JSPM and restart the deployment of the subsequent SPs in the queue that have the status NOT DEPLOYED.

The deployment of each SP can end with one of the following states:

- **DEPLOYED**
  The SP has been successfully deployed.
- **DEPLOYED WITH WARNING**
  The SP has been deployed but it possibly may not work properly with other deployed components. You can view the details by choosing *View Details*, or examining the log files.
- **ERROR**
  An error occurred during the deployment. You can view the details by choosing *View Details* or examining the log files. You **must** correct the error to continue with the SP stack update.
  - If the error correction does not change the contents in the JSPM inbox, you can continue the SP stack update by choosing *Retry*.
  - If the error correction changes the contents in the JSPM inbox, you have to choose *New Deployment* in order to redeploy the SP stack.
- **NOT DEPLOYED**
  JSPM has not attempted to deploy the software component for certain reasons. You can proceed as described above to resolve the potential problems and restart the SP stack update appropriately.

Only valid for: UNIX

8. If the applied Support Packages update the kernel, perform the following steps on a UNIX platform:
   a) Log on as user <sapsid>adm.
   b) Stop the SAP system being updated.

A   Appendix

A.3   System Profile Parameters

c) Enter the following command:

Only valid for: DB2 UDB for UNIX and Windows

```
su root
```

End of: DB2 UDB for UNIX and Windows

Only valid for: DB2 UDB for iSeries;DB2 UDB for z/OS;Informix;MaxDB;MS SQL Server;Oracle

```
su - root
```

End of: DB2 UDB for iSeries;DB2 UDB for z/OS;Informix;MaxDB;MS SQL Server;Oracle

```
cd <krnl_direcotry>
./saproot.sh <SAPSID>
exit
```

d) Start the SAP system.

End of: UNIX

Step 4: Start JSPM (based on SAP NetWeaver 2004s SR1 SPS06) via the **go.bat** file located in the directory **D:\usr\sap\J2E\JC01\J2EE\JSPM** and then <u>UPDATE ONLY JSPM from SPS06 to SPS09. Afterwards, STOP JSPM AND RESTART IT IN ORDER TO APPLY THE REST OF SPS09 SUPPORT PACKAGE</u> (see figures depicted below).

Select go.bat in order to start JSPM.

Name ▲	Size	Type	Date Modified	Attributes
bootstrap		File Folder	9/20/2006 5:07 PM	
deploy		File Folder	9/20/2006 5:06 PM	
log		File Folder	9/20/2006 5:07 PM	
tmp		File Folder	9/20/2006 5:07 PM	
trc		File Folder	9/20/2006 5:07 PM	
go	2 KB	File	2/19/2006 1:05 AM	A
go.bat	1 KB	Windows Batch File	2/19/2006 1:05 AM	A

Address: D:\usr\sap\J2E\JC01\j2ee\JSPM
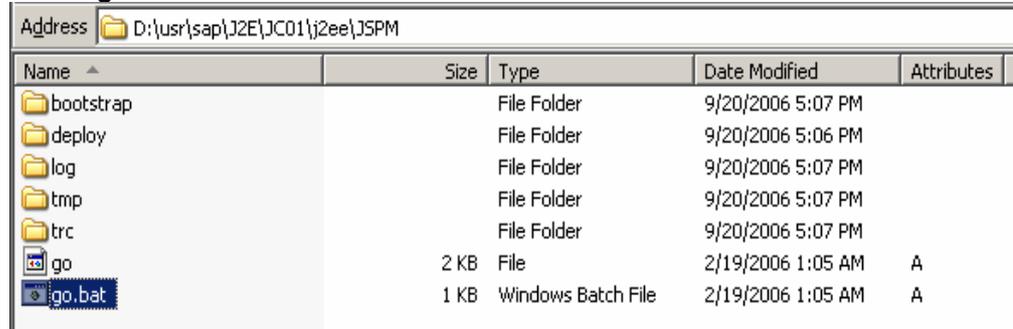
Follow the figures depicted below, in order to upgrade JSPM from SPS06 to SPS09. Remember, you have to do this first, before proceeding with the rest of the SPS09 support package upgrade.

Log on to the system using the password which you used during the SAP installation (SAPinst).
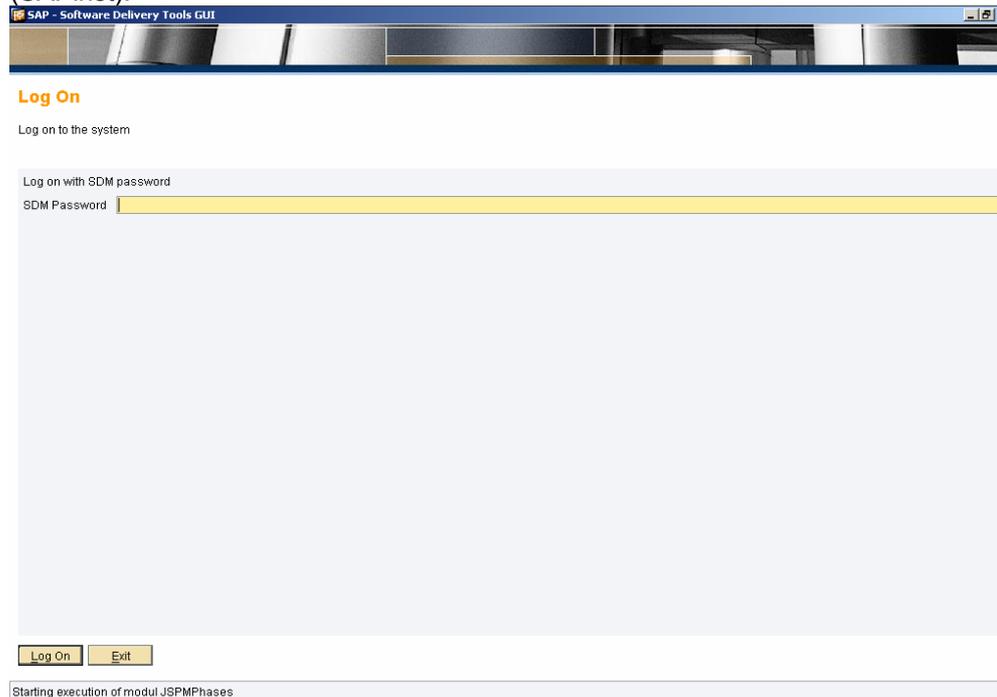
Make the selections as depicted below (for Select a package type to apply, select **Single Support Packages** and for NWDI Control select **TEST**). Then select Next.
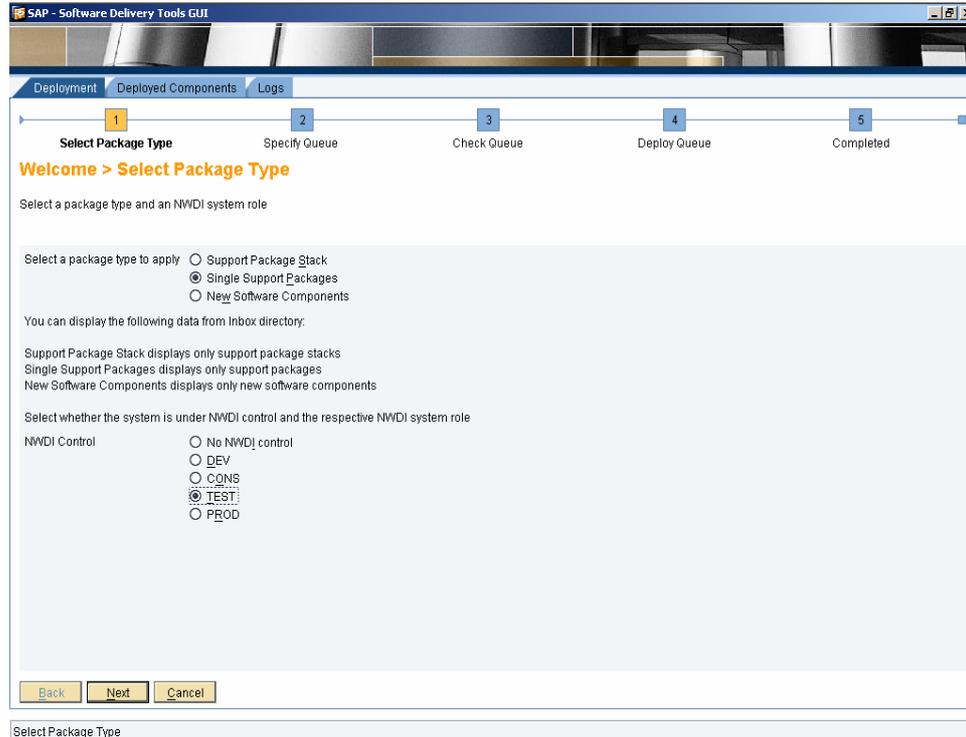
From the list of support packages in the Specify Queue screen (as depicted below) which you can apply, select **sap.com/JSPM** in order to upgrade JSPM from from SPS06 to SPS09 and then select Next.

…Select Next (notice the Check Queue indicates the Status as OK, which means it is OK to deploy the support package -> move on to the Deploy Queue).

…..notice the messages in the Status column… SCHEDULED…IN PROGRESS..

….when the JSPM update is finished (see the Status column and the Status DEPLOYED), you should get some messages as depicted below. Follow the instructions….select Exit and start JSPM again as described above.

After you have restarted JSPM, make the selections as depicted below in order to update
SPS06 to SPS09 (install/upgrade the rest of the support packages).Review the JSPM User
Guide and the **SAP Note 891893** if needed.

Log on to the system using the password which you used during the SAP installation
(SAPinst).

….select Support Package Stack in the section Select a package type to apply and in the NWDI Control section select TEST and then hit the Next button.
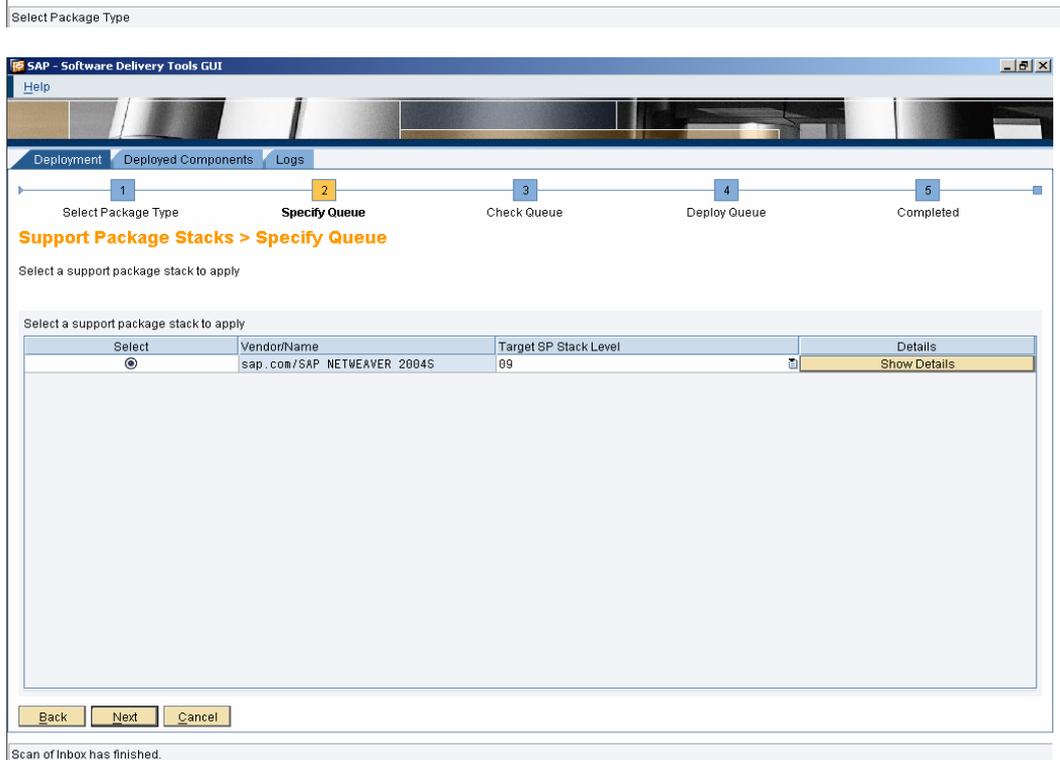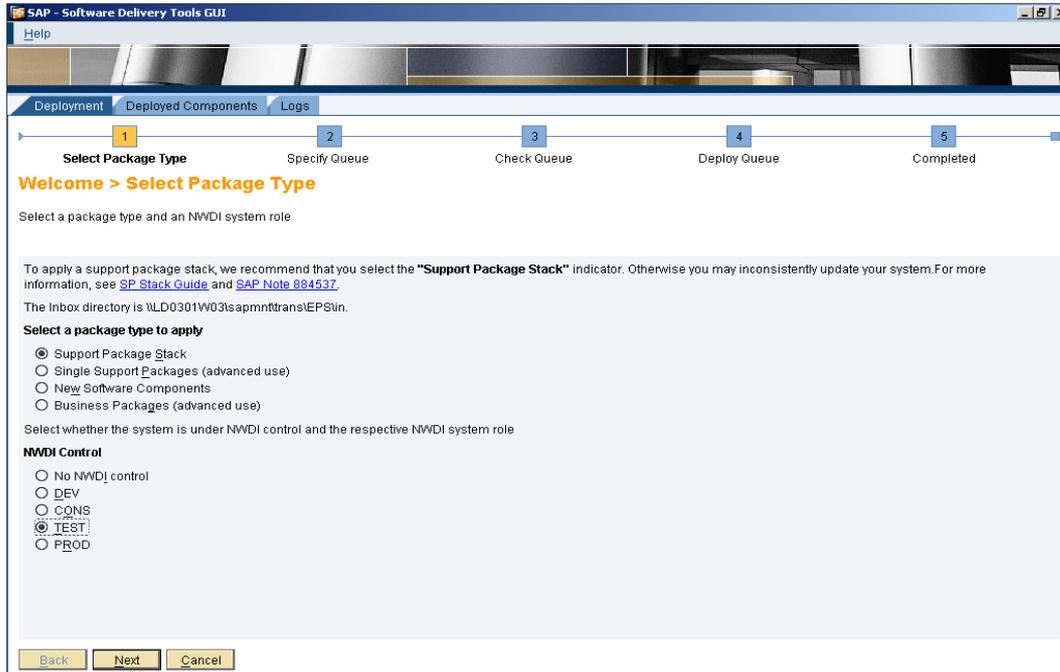
….please wait while the Check Queue is in progress as depicted below. This check can take a while, so be patient.

…once the Validation of selected components has finished, you receive the information as depicted below. Notice the Status column with the OK message.

Order	Vendor/Name	Current SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status	Details
19	sap.com/UMEADMIN	6.0	9.0	OK	Show Details
20	sap.com/NET-PDK	6.0	9.0	OK	Show Details
21	sap.com/RTC	6.0	9.0	OK	Show Details
22	sap.com/DI_DTR	6.0	9.0	OK	Show Details
23	sap.com/EPBC2	6.0	9.0	OK	Show Details
24	sap.com/KMC-BC	6.0	9.0	OK	Show Details
25	sap.com/KMC-CM	6.0	9.0	OK	Show Details
26	sap.com/KMC-COLL	6.0	9.0	OK	Show Details
27	sap.com/LM-PORTAL	6.0	9.0	OK	Show Details
28	sap.com/RTC-STREAM	6.0	9.0	OK	Show Details
29	sap.com/DI_CBS	6.0	9.0	OK	Show Details
30	sap.com/DI_CMS	6.0	9.0	OK	Show Details
31	sap.com/EP-PSERV	6.1	9.0	OK	Show Details
32	sap.com/EP-WDC	6.0	9.0	OK	Show Details
33	sap.com/UWLJWF	6.0	9.0	OK	Show Details
34	sap.com/VCFLEX	6.0	9.0	OK	Show Details
35	sap.com/VCFRAMEWORK	6.0	9.0	OK	Show Details
36	sap.com/VCBASE	6.0	9.0	OK	Show Details
37	sap.com/VCKITGP	6.0	9.0	OK	Show Details

Order	Vendor/Name	Current SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status	Details
38	sap.com/VCKITXX	6.0	9.0	OK	Show Details
39	sap.com/WDEXTENSIONS	6.0	9.0	OK	Show Details
40	sap.com/SAP-EU	6.3	9.0	OK	Show Details
41	sap.com/CAF-KM	6.1	9.0	OK	Show Details

Now select Next and notice the Status column on the Deploy Queue page. Status messages such as SCHEDULED, DEPLOYED, IN PROGRESS etc. are displayed.

….Status SCHEDULED

….Status IN PROGRESS

….Status DEPLOYED, IN PROGRESS, SCHEDULED etc.

…..be patient and wait until things are finished. When the Completed page appears,　check the Status column and make sure everything has the status DEPLOYED as depicted below. Also, take care of the things needing additional configuration. Check the message **"The following usage types have been activated. sap.com/DI (NetWeaver), sap.com/EPC (NetWeaver). They may need additional configuration, so you are strongly advised to check the Configuration section in Installation Master Guide"**. Select Exit.

Order	Vendor/Name	Old SPLevel.PatchLevel	Current SPLevel.PatchLevel	Status	Details
17	sap.com/CAF	6.0	9.0	DEPLOYED	Show Details
18	sap.com/LM-TOOLS	6.1	9.0	DEPLOYED	Show Details
19	sap.com/UMEADMIN	6.0	9.0	DEPLOYED	Show Details
20	sap.com/NET-PDK	6.0	9.0	DEPLOYED	Show Details
21	sap.com/RTC	6.0	9.0	DEPLOYED	Show Details
22	sap.com/DI_DTR	6.0	9.0	DEPLOYED	Show Details
23	sap.com/EPBC2	6.0	9.0	DEPLOYED	Show Details
24	sap.com/KMC-BC	6.0	9.0	DEPLOYED	Show Details
25	sap.com/KMC-CM	6.0	9.0	DEPLOYED	Show Details
26	sap.com/KMC-COLL	6.0	9.0	DEPLOYED	Show Details
27	sap.com/LM-PORTAL	6.0	9.0	DEPLOYED	Show Details
28	sap.com/RTC-STREAM	6.0	9.0	DEPLOYED	Show Details
29	sap.com/DI_CBS	6.0	9.0	DEPLOYED	Show Details
30	sap.com/DI_CMS	6.0	9.0	DEPLOYED	Show Details
31	sap.com/EP-PSERV	6.1	9.0	DEPLOYED	Show Details
32	sap.com/EP-WDC	6.0	9.0	DEPLOYED	Show Details
33	sap.com/UWLJWF	6.0	9.0	DEPLOYED	Show Details
34	sap.com/VCFLEX	6.0	9.0	DEPLOYED	Show Details
35	sap.com/VCFRAMEWORK	6.0	9.0	DEPLOYED	Show Details
36	sap.com/VCBASE	6.0	9.0	DEPLOYED	Show Details
37	sap.com/VCKITGP	6.0	9.0	DEPLOYED	Show Details
38	sap.com/VCKITXX	6.0	9.0	DEPLOYED	Show Details
39	sap.com/WDEXTENSIONS	6.0	9.0	DEPLOY...	Show Details
40	sap.com/SAP-EU	6.3	9.0	DEPLOYED	Show Details
41	sap.com/CAF-KM	6.1	9.0	DEPLOYED	Show Details

Back   New Deployment   Exit

Deployment has finished.

You can now check the **System Information** (for example, http://your J2EEhostname:50100) page (Software Components -> Name and Version columns) as depicted below.

Now go on and read **SAP NetWeaver Developer Workplace SR1 (SPS06) – part 6 (SLD)**