

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 upgrade 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.

The screenshot shows the SAP Knowledge Warehouse interface for the 'Software Maintenance' topic. The left sidebar contains a navigation tree with categories like 'Technical Operations Manual for SAP NetWeaver', 'General Administration Tasks', 'Administration of SAP NetWeaver Systems', 'SAP ABAP (Application Server for ABAP)', 'SAP Java (Application Server for Java)', 'Technical System Landscape', 'Monitoring', 'Management', 'Software Logistics', 'Development Infrastructure (DO)', 'Backup up and Restoring the NWDB', 'Software Maintenance', 'Additive Computing', 'Adobe Document Services', 'Troubleshooting', 'SAP (EP Core) and EP (Enterprise Portal)', 'BI (Business Intelligence)', 'M (Mobile Infrastructure)', 'PI (Process Integration)', 'Development Infrastructure (DO)', 'Administration of Standalone Engines', 'Administration of Client Programs', and 'Administration of SAP NetWeaver IT Scenarios'. The main content area is titled 'Software Maintenance' and includes a recommendation to keep the system up-to-date, a list of tools (Support Package Manager (SPAM) and Java Support Package Manager (JSPM)), and a table of tasks.

Task	Description	Tool
Import Support Package Stacks	SAP ships quality enhancements, program corrections, and updates for SAP NetWeaver in Support Packages. Support Packages are grouped in Support Package Stacks (SP Stacks), which can include both ABAP and Java Support Packages and Kernel Patches. When released, an SP Stack contains the optimum combination of Support Package and Patch levels for all NetWeaver components. The Support Packages and Patches listed in an SP Stack must be implemented together. There is a new SP Stack each quarter. Support Package Stacks are available on SAP Service Marketplace at service.sap.com/sp-stacks . Here you can also see information about the availability of SP Stacks and the <i>Support Package Stack Guide</i> . This guide gives you detailed information about importing Support Package Stacks. It is updated for each new SP Stack.	Support Package Manager (ABAP) Java Support Package Manager
Importing Java Support Package Patches	Java Support Package Patches contain corrections to Java software components. They are made available as required and always contain the entire software component.	Java Support Package Manager

The screenshot shows the SAP Knowledge Warehouse interface for the 'Java Support Package Manager' topic. The left sidebar contains a navigation tree with categories like 'Java Support Package Manager', 'Software Delivery Unit', 'Requirements for Free Disk Space', 'Starting JSPM', 'Detecting and Changing the Global PPS Inbox Directory', 'Determining the Deployed Components', 'Importing a Support Package Stack', 'Executing the secret.sh Script', 'Installing Single Support Packages', 'Installing New Software Components', 'Installing and Uninstalling Business Packages', and 'Troubleshooting'. The main content area is titled 'Java Support Package Manager' and includes a 'Purpose' section, a list of features, and an 'Integration' section.

Purpose

You can use the Java Support Package Manager (JSPM) to apply support packages on deployed software components. You can also deploy SAP and third-party software components to which you can then apply support packages and patches. You can deploy new business packages of mySAP Business Suite. You can also upgrade and update business packages of mySAP Business Suite that are deployed on the system to a higher release and support package level respectively. In addition, JSPM detects SAP software components that have been modified and allows you to apply support packages to them.

The JSPM has the following features:

- Usability
 - Offers a simple and intuitive graphical user interface (GUI)
 - Shares common GUI with SAPinst and SAPlug
 - Automatically detects and offers you only components that can upgrade deployed components
 - Shows only necessary information. Shows additional details at your request.
- Deployed Component Overview
 - Displays support package level information
- Support Package Level Administration
 - Allows definition of dependencies between versions of software components
 - Checks whether a new software component version may correctly upgrade an existing software component version
- Development Component Level Administration
 - Checks deployment dependencies between development components
- Updates of Kernel Binaries, Software Deployment Manager (SDM), Internet Graphics Server (IGS), and JSPM
- Deployment
 - Allows you to apply a support package stack
 - Allows you to apply single support packages
 - Allows you to deploy SAP and third-party software components
 - Allows you to deploy and upgrade business packages of mySAP Business Suite
 - In NWDB development (DEV) and consolidation (CONS) systems, detects modified software components and transports them for deployment to NWDB
 - In NWDB test (TEST) and production (PROD) systems, detects and deploys modified software components
 - Informs you if restarting of the J2EE Engine is necessary during the deployment process
 - Offers a better support of the patch process in a distributed systems scenario
 - Monitors and logs the deployment process
 - Allows you to restart the deployment of support packages
 - At the end of a patch procedure, it offers a Java Support Package Manager Evaluation Form. The evaluation form contains important information about the patch procedure and allows you to provide feedback about your experience with JSPM. You can send the evaluation form to SAP to analyze your patch procedure and the errors that might have occurred. The evaluation form will also help SAP to improve the overall patch procedures.

Integration

JSPM connects to the SDM server to deploy support packages and software components. The SDM server performs additional validation of the support packages and software components for deployment. JSPM is integrated with the SAP NetWeaver Development Infrastructure (NWDB). JSPM detects SAP software components that have been modified and allows you to apply support packages to them.

See also:

- [Software Delivery Unit](#)
- [Starting JSPM](#)

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
✓ SAPBILT09_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
✓ EPBILT09_0-10003786.SCA	SP09 for EP BUILD TOOL 7.00		Info	EP BUILD TOOL 7.00	#OS independent
✓ BASETAB09_0-10003462.SCA	SP09 for J2EE ENGINE BASE TABLES 7.00		Info	J2EE ENGINE BASE TABLES 7.00	#OS independent
✓ CORETOOL09_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
✓ KMBC09_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
✓ LMTOOL09_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.

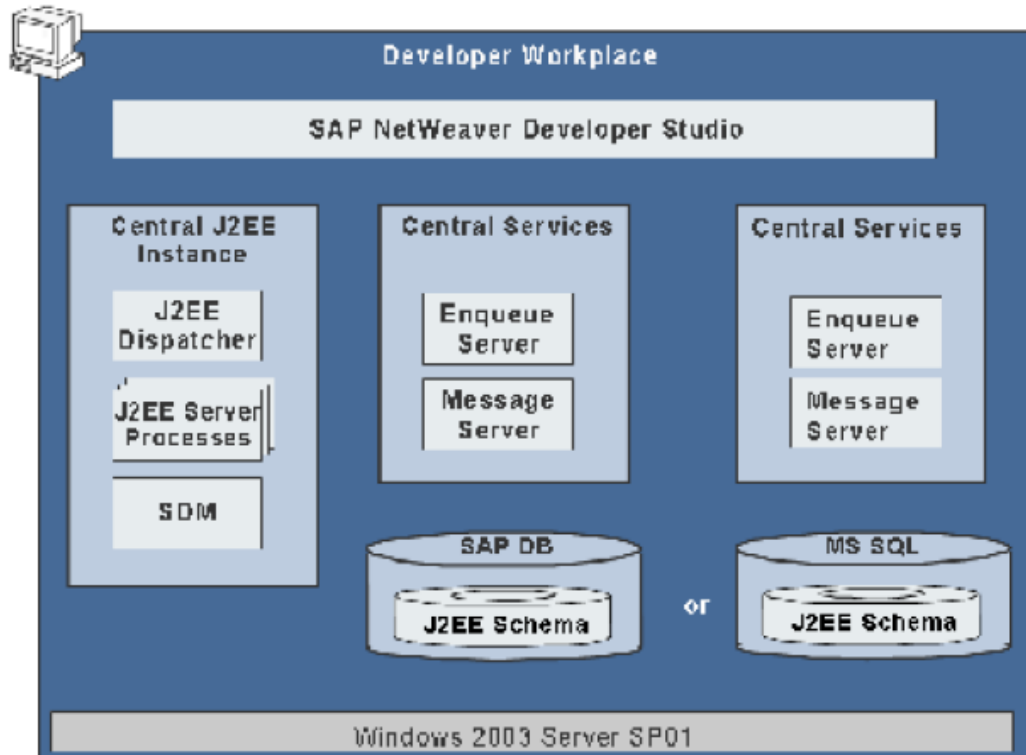
Why do we start with SAP NetWeaver 2004s SR1?

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.

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):

SAP Software Distribution Center

SAP Installations & Upgrades

SAP Support Packages

Database Patches

Download Basket

Additional Download Info

You are here:

SAP Software Distribution Center

Download

Support Packages and Patches

Search for Support Packages and Patches

Entry by Application Group

My Company's Application Components

Archive for Support Packages and Patches

SAP Support Packages in Detail

SAP Support Package Stacks

Installations and Upgrades

Content

Database Patches (from other vendors)

SAP Cryptographic Software

SAP Connectors

Search for all Categories

Ordering SAP-Software

Download Basket

Copyright Privacy Imprint

Support Package Stacks

SAP NETWEAVER 2004S

Step 1 of 3 - Choose your Source and Target Stack

Please choose the Source Stack and then the Target Stack

Remark: The Source Stack is not mandatory so if you do not know it, leave the field empty

Target Stack 09 (09/2006) Show Stack Information

Source Stack 06 (02/2006) Show Stack Information

☒ Restrict according to Usage

Usage Selection

☒ Development Infrastructure ☒ Application Server Java Select All

☐ Application Server ABAP ☐ Mobile Infrastructure Deselect All

☐ Process Integration (XI) ☒ Enterprise Portal

☐ Business Intelligence

Next Step

Additional Information

SAP NetWeaver 2004s - Support Package Stack Download

This is the download summary for SAP NetWeaver 2004s Support Package Stacks.

General information about SAP Support Package Stacks can be found under Quick Link [/sp-stacks](#).

Please read the documentation specified for each SP Stack **before** you apply any Support Packages or Patches of the selected SP Stack.

A link to the corresponding documentation of

SAP NetWeaver 2004s Support Package Stacks

B) Choose Configuration (Step 2 of 3):

SAP Software Distribution Center

SAP Installations & Upgrades

SAP Support Packages

Database Patches

Download Basket

Additional Download Info

You are here:

SAP Software Distribution Center

Download

Support Packages and Patches

Search for Support Packages and Patches

Entry by Application Group

My Company's Application Components

Archive for Support Packages and Patches

SAP Support Packages in Detail

SAP Support Package Stacks

Installations and Upgrades

Content

Database Patches (from other vendors)

SAP Cryptographic Software

SAP Connectors

Search for all Categories

Ordering SAP-Software

Download Basket

Copyright Privacy Imprint

Support Package Stacks

SAP NETWEAVER 2004S Support Package Stack 09 (09/2006)

Step 2 of 3 - Choose Configuration

Please choose for each of the component versions listed below the configuration (DB-System, Operating-System, others) you need for your implemented solution. Please make sure that you always select:

- the OS-independent (POS independent) and
- the DB-independent installation (RDatabase independent)

in addition to your specific DB and OS installation.

Previous Step Next Step

ConfigTree

- SAP I68 7.00 for Application Server Java, Enterprise Portal, Development Infrastructure (From SP001 To SP005 or higher (Recommendation: SP005))
- SAP KERNEL 7.00 32-BIT UNICODE for Application Server Java, Enterprise Portal, Development Infrastructure (From SP041 To SP075 or higher (Recommendation: SP075))
- SAP KERNEL 7.00 64-BIT UNICODE for Application Server Java, Enterprise Portal, Development Infrastructure (From SP041 To SP075 or higher (Recommendation: SP075))
- TREX 7.00 for Search and Classif. (TREX) (From SP006 To SP024 or higher (Recommendation: SP024))

Expand All Collapse All

Previous Step Next Step

SAP Software Distribution Center SAP Installations & Upgrades SAP Support Packages Database Patches Download Basket Additional Download Info

You are here:

- SAP Software Distribution Center
 - Download
 - Support Packages and Patches
 - Search for Support Packages and Patches
 - Entry by Application Group**
 - My Company's Application Components
 - Archive for Support Packages and Patches
 - SAP Support Packages in Detail
 - SAP Support Package Stacks
 - Installations and Upgrades
 - Content
 - Database Patches (from other vendors)
 - SAP Cryptographic Software
 - SAP Connectors
 - Search for all Categories
 - Ordering SAP-Software
 - Download Basket

Copyright Privacy Imprint

Support Package Stacks

SAP NETWEAVER 2004S Support Package Stack 09 (09/2006)

Step 2 of 3 - Choose Configuration

Please choose for each of the component versions listed below the configuration (DB-System, Operating-System, others) you need for your implemented solution. Please make sure that you always select:

- the OS-independent (#OS independent) and
- the DB-independent (#Database independent)

in addition to your specific DB and OS installation.

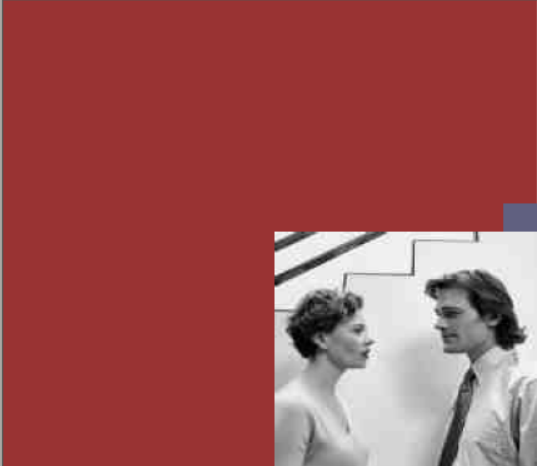
[Previous Step](#) [Next Step](#)

ConfigTree

- ☒ SAP IGS 7.00 for Application Server Java, Enterprise Portal, Development Infrastructure (From SP001 To SP005 or higher (Recommendation: SP005))
 - ☐ AIX 64bit
 - ☐ HP-UX on IA64 64bit
 - ☐ HP-UX on PA-RISC 64bit
 - ☐ Linux on Power 64bit
 - ☐ Linux on IA32 32bit
 - ☐ Linux on IA64 64bit
 - ☐ Linux on x86_64 64bit
 - ☒ Windows Server on IA32 32bit
 - ☐ Windows Server on IA64 64bit
 - ☐ Windows Server on x64 64bit
 - ☐ OS/400 V5R2M0
 - ☐ Linux on zSeries 64bit
 - ☐ Solaris on x64_64 64bit
 - ☐ Solaris on SPARC 64bit
- ☒ SAP KERNEL 7.00 32-BIT UNICODE for Application Server Java, Enterprise Portal, Development Infrastructure (From SP041 To SP075 or higher (Recommendation: SP075))
 - ☐ Linux on IA32 32bit
 - ☐ DB2 UDB
 - ☐ #Database Independent
 - ☐ MaxDB
 - ☐ ORACLE
 - ☐ Windows Server on IA32 32bit
 - ☐ DB2/390
 - ☐ DB2/400
 - ☐ DB2 UDB
 - ☒ #Database Independent
 - ☒ MaxDB
 - ☐ MS SQL SERVER
 - ☐ ORACLE
- ☐ SAP KERNEL 7.00 64-BIT UNICODE for Application Server Java, Enterprise Portal, Development Infrastructure (From SP041 To SP075 or higher (Recommendation: SP075))
- ☐ TREX 7.00 for Search and Classif. (TREX) (From SP006 To SP024 or higher (Recommendation: SP024))

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**).



PUBLIC

Support Package Stack Guide

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

Target Audience

- Implementation Consultants
- System Administrators

Document version: 1.00 – 09/05/2006

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 successively.

10

PUBLIC

09/05/2006

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:

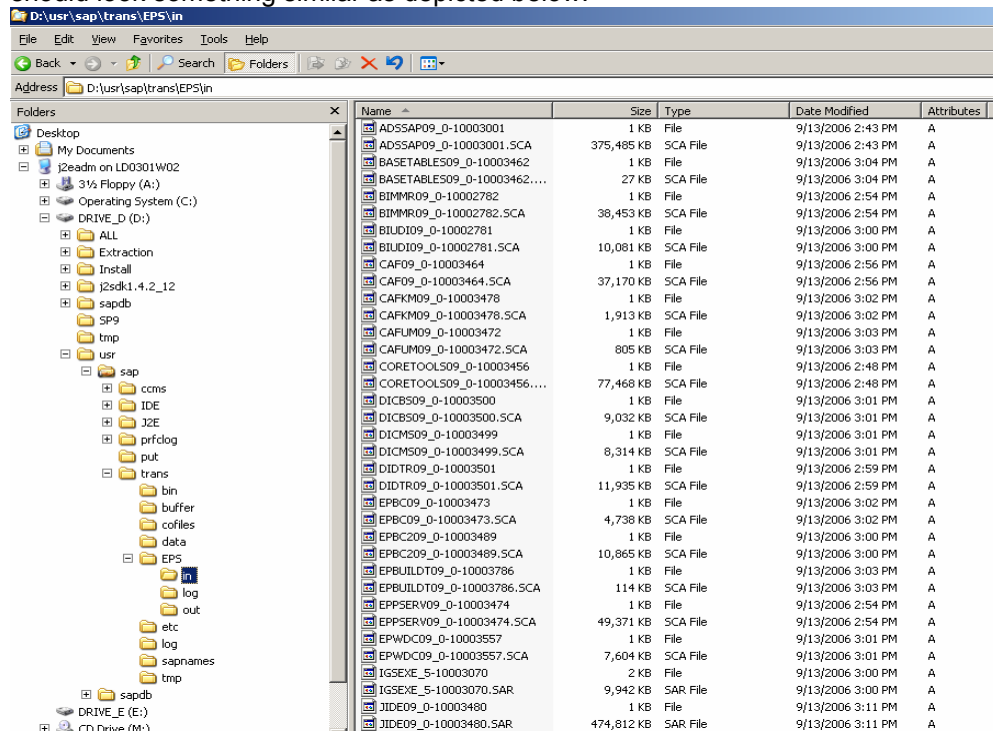
Software components of Application Server Java






























































Component to Be Updated	SP File Name	Tool Used to Apply SP
SAP Kernel 7.00 32-/64-BIT UNICODE	SAPEXE.SAR SAPEXEDB.SAR	JSPH
SAP IGS 7.00	igs.exe.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	KIKWIKS<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	JSPH<SP>_<PL>.SCA	
ADOBE DOCUMENT SERVICES 7.00	ADSSAP<SP>_<PL>.SCA	
UME ADMINISTRATION 7.00	UHEADHIN<SP>_<PL>.SCA	
LIFECYCLE MGMT TOOLS 7.00	LITTOOLS<SP>_<PL>.SCA	
SAP CAF-UM 7.00	CAFUM<SP>_<PL>.SCA	
SAP STARTUP FRAMEWORK 7.00		
SAP SOFTWARE 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:



	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
	LMTTOOLS09_0-10003486	1 KB	File	9/13/2006 2:52 PM	A
	LMTTOOLS09_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
	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
	WDEXTENSION09_0-10003618	1 KB	File	9/13/2006 3:02 PM	A
	WDEXTENSION09_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](#).

09/05/2006

PUBLIC

39

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.

09/05/2006

PUBLIC

41

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_dir>

./saproot.sh <SAPSID>

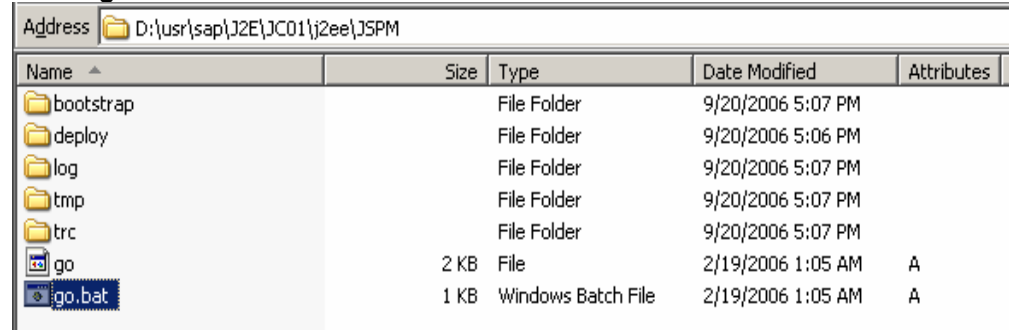
exit

- 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 **UPDATE ONLY JSPM from SPS06 to SPS09. Afterwards, STOP JSPM AND RESTART IT IN ORDER TO APPLY THE REST OF SPS09 SUPPORT PACKAGE** (see figures depicted below).

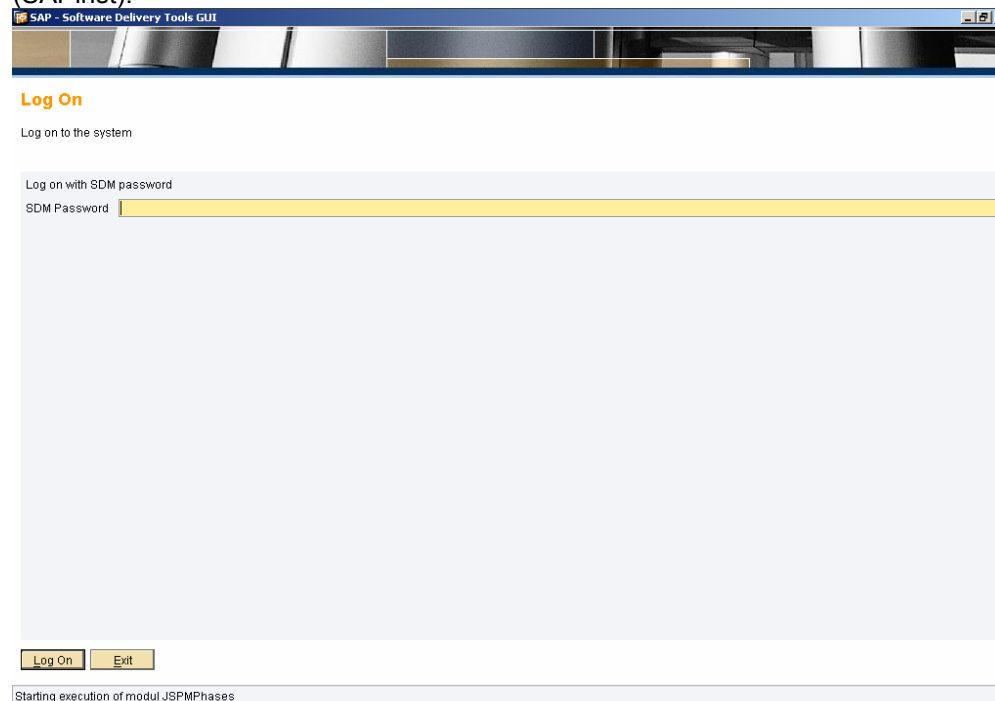
Select go.bat in order to start JSPM.



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

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).



SAP - Software Delivery Tools GUI

Log On

Log on to the system

Log on with SDM password

SDM Password

Log On Exit

Starting execution of modul JSPMPhases

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.

SAP - Software Delivery Tools GUI

Deployment | Deployed Components | Logs

1 2 3 4 5

Select Package Type

Specify Queue

Check Queue

Deploy Queue

Completed

Welcome > Select Package Type

Select a package type and an NWDI system role

Select a package type to apply

☐ Support Package Stack

☒ Single Support Packages

☐ New Software Components

You can display the following data from Inbox directory:

Support Package Stack displays only support package stacks

Single Support Packages displays only support packages

New Software Components displays only new software components

Select whether the system is under NWDI control and the respective NWDI system role

NWDI Control

☐ No NWDI control

☐ DEV

☐ CONS

☒ TEST

☐ PROD

Back Next Cancel

Select Package Type

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.

SAP - Software Delivery Tools GUI

Deployment | Deployed Components | Logs

1 2 3 4 5

Select Package Type

Specify Queue

Check Queue

Deploy Queue

Completed

Support Packages > Specify Queue

Select support packages to apply

VendorName	Current SP Level	Target SP Level	Details
sap.com/ADSSAP	6.0	sk1p	Show Details
sap.com/BASETABLES	6.0	sk1p	Show Details
sap.com/BI_MMR	6.0	sk1p	Show Details
sap.com/BI_UDI	6.0	sk1p	Show Details
sap.com/CAF	6.0	sk1p	Show Details
sap.com/CAF-KM	6.1	sk1p	Show Details
sap.com/CAF-UM	6.0	sk1p	Show Details
sap.com/CORE-TOOLS	6.2	sk1p	Show Details
sap.com/DI_CBS	6.0	sk1p	Show Details
sap.com/DI_CMS	6.0	sk1p	Show Details
sap.com/DI_DTR	6.0	sk1p	Show Details
sap.com/EP-PSERV	6.1	sk1p	Show Details
sap.com/EP-WDC	6.0	sk1p	Show Details
sap.com/EPBC	6.0	sk1p	Show Details
sap.com/EPBC2	6.0	sk1p	Show Details
sap.com/JLOGVIEW	6.0	sk1p	Show Details
sap.com/JSPM	6.0	sk1p	Show Details
sap.com/KM-KW_JIKS	6.0	sk1p	Show Details
sap.com/KMC-BC	6.0	sk1p	Show Details
sap.com/KMC-CM	6.0	sk1p	Show Details
sap.com/KMC-COL	6.0	sk1p	Show Details

Back Next Cancel

Specify Queue

The screenshot shows the SAP Software Delivery Tools GUI with the 'Specify Queue' step selected in the progress bar. The progress bar has five steps: 1. Select Package Type, 2. Specify Queue, 3. Check Queue, 4. Deploy Queue, and 5. Completed. Below the progress bar, the text 'Support Packages > Specify Queue' is displayed. Underneath, it says 'Select support packages to apply'. A table lists various support packages with columns for VendorName, Current SP Level, Target SP Level, and Details. The table includes packages like sap.com/ADSSAP, sap.com/BASETABLES, sap.com/BI_MMR, sap.com/BI_UDI, sap.com/CAF, sap.com/CAF-KM, sap.com/CAF-UM, sap.com/CORE-TOOLS, sap.com/DI_CBS, sap.com/DI_CHS, sap.com/DI_DTR, sap.com/EP-PSERV, sap.com/EP-WDC, sap.com/EPBC, sap.com/EPBC2, sap.com/JLOGVIEW, sap.com/JSPM, sap.com/KM-KW_JIKS, sap.com/KMC-BC, sap.com/KMC-CM, and sap.com/KMC-COLL. Each row has a 'Show Details' link. At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

VendorName	Current SP Level	Target SP Level	Details
sap.com/ADSSAP	6.0	sk1p	Show Details
sap.com/BASETABLES	6.0	sk1p	Show Details
sap.com/BI_MMR	6.0	sk1p	Show Details
sap.com/BI_UDI	6.0	sk1p	Show Details
sap.com/CAF	6.0	sk1p	Show Details
sap.com/CAF-KM	6.1	sk1p	Show Details
sap.com/CAF-UM	6.0	sk1p	Show Details
sap.com/CORE-TOOLS	6.2	sk1p	Show Details
sap.com/DI_CBS	6.0	sk1p	Show Details
sap.com/DI_CHS	6.0	sk1p	Show Details
sap.com/DI_DTR	6.0	sk1p	Show Details
sap.com/EP-PSERV	6.1	sk1p	Show Details
sap.com/EP-WDC	6.0	sk1p	Show Details
sap.com/EPBC	6.0	sk1p	Show Details
sap.com/EPBC2	6.0	sk1p	Show Details
sap.com/JLOGVIEW	6.0	sk1p	Show Details
sap.com/JSPM	6.0	sk1p	Show Details
sap.com/KM-KW_JIKS	6.0	sk1p	Show Details
sap.com/KMC-BC	6.0	sk1p	Show Details
sap.com/KMC-CM	6.0	sk1p	Show Details
sap.com/KMC-COLL	6.0	sk1p	Show Details

This screenshot is identical to the one above, showing the 'Specify Queue' step in the SAP Software Delivery Tools GUI. The progress bar and table are the same. The 'Next' button at the bottom is highlighted with a yellow border, indicating the next step in the process.

...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).

The screenshot shows the SAP Software Delivery Tools GUI. The 'Deployment' tab is active, and the 'Check Queue' step (3) is highlighted in the progress bar. The main area displays the title 'Support Packages > Check Queue' and a sub-header 'Validation of the dependencies of the selected support packages'. Below this, a message states: 'The J2EE Engine will not be restarted during deployment. The following support packages will be applied:'. A table lists the support packages:

Order	Vendor/Name	Current SP Level	Target SP Level	Status	Details
1	sap.com/JSPM	6.0	9.0	OK	Show Details

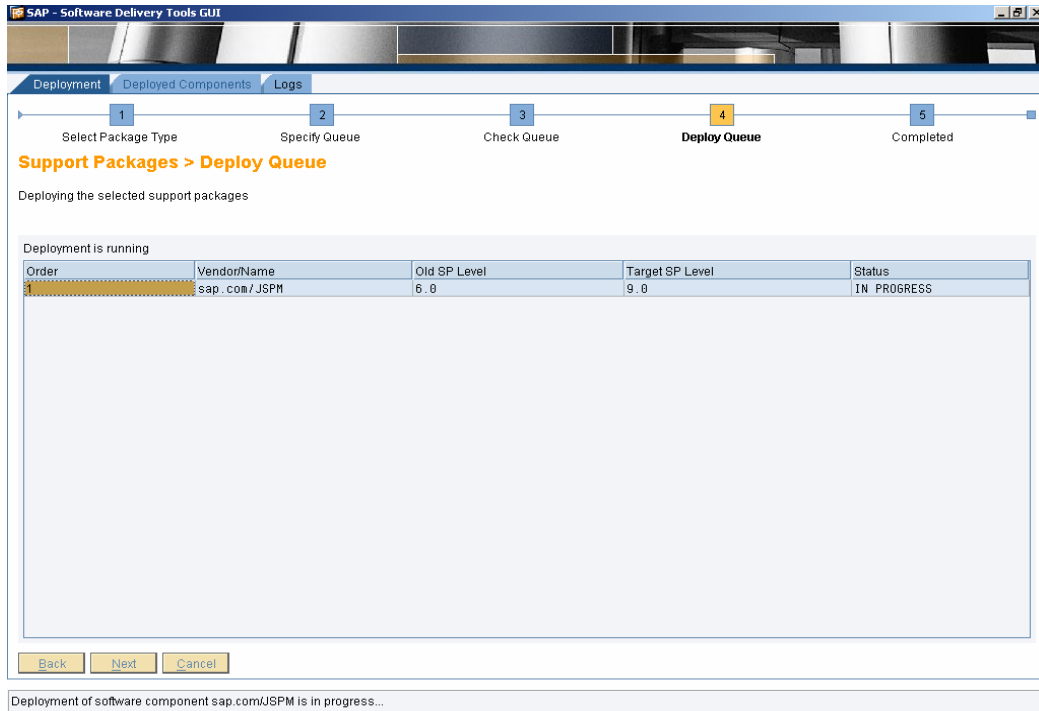
At the bottom, there are 'Back', 'Next', and 'Cancel' buttons. The status bar at the very bottom indicates 'Check Queue'.

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

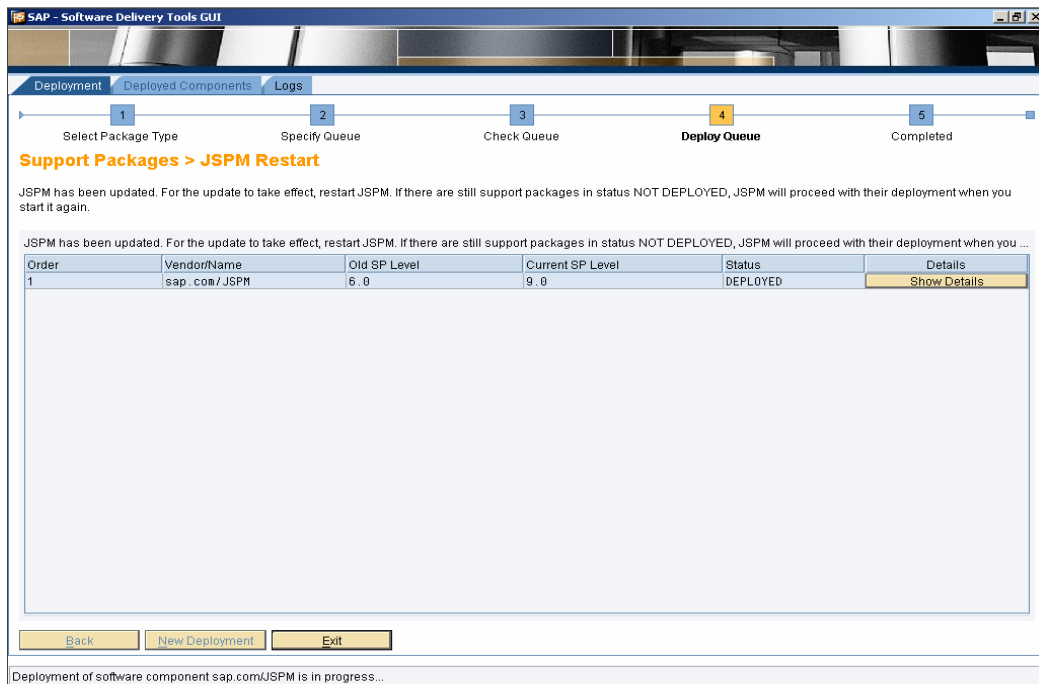
The screenshot shows the SAP Software Delivery Tools GUI. The 'Deployment' tab is active, and the 'Deploy Queue' step (4) is highlighted in the progress bar. The main area displays the title 'Support Packages > Deploy Queue' and a sub-header 'Deploying the selected support packages'. Below this, a message states: 'Deployment is running'. A table lists the support packages:

Order	Vendor/Name	Old SP Level	Target SP Level	Status
1	sap.com/JSPM	6.0	9.0	SCHEDULED

At the bottom, there are 'Back', 'Next', and 'Cancel' buttons. The status bar at the very bottom indicates 'Deploy Queue'.



....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.



The screenshot shows the SAP Software Delivery Tools GUI with the 'Deployment' tab selected. A progress bar at the top indicates five steps: 1. Select Package Type, 2. Specify Queue, 3. Check Queue, 4. Deploy Queue (highlighted in orange), and 5. Completed. Below the progress bar, the text 'Support Packages > JSPM Restart' is displayed. A message states: 'JSPM has been updated. For the update to take effect, restart JSPM. If there are still support packages in status NOT DEPLOYED, JSPM will proceed with their deployment when you start it again.'

Below the message is a table with the following data:

Order	Vendor/Name	Old SP Level	Current SP Level	Status	Details
1	sap.com/JSPM	6.0	9.0	DEPLOYED	Show Details

Below the table, a 'Details message' section contains the text: 'Archive \ILD0301W03\sapmnt\trans\EPs\in\JSPM09_0-10003470.SCA has been deployed.'

At the bottom of the window, there are three buttons: 'Back', 'New Deployment', and 'Exit'. A status bar at the very bottom indicates: 'Deployment of software component sap.com/JSPM is in progress...'

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).

The screenshot shows the SAP Software Delivery Tools GUI with the 'Log On' tab selected. The text 'Log on to the system' is displayed. Below this, there is a section titled 'Log on with SDM password' with a password field labeled 'SDM Password' containing asterisks. A message below the password field states: 'Before starting the patch process, we recommend that you review [JSPM User Guide](#) and [SAP Note 891893](#) first.'

At the bottom of the window, there are two buttons: 'Log On' and 'Exit'. A status bar at the very bottom indicates: 'Access to the table with system component versions is possible.'

....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.

The screenshot shows the 'SAP - Software Delivery Tools GUI' window. The 'Deployment' tab is active, and the progress bar indicates Step 1: Select Package Type. The main content area has the heading 'Welcome > Select Package Type' and the instruction 'Select a package type and an NWDI system role'. It provides information about applying support package stacks and the current inbox directory. Under 'Select a package type to apply', the 'Support Package Stack' radio button is selected. Under 'NWDI Control', the 'TEST' radio button is selected. At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

Deployment | Deployed Components | Logs

1 Select Package Type | 2 Specify Queue | 3 Check Queue | 4 Deploy Queue | 5 Completed

Welcome > Select Package Type

Select a package type and an NWDI system role

To apply a support package stack, we recommend that you select the "Support Package Stack" indicator. Otherwise you may inconsistently update your system. For more information, see [SP Stack Guide](#) and [SAP Note 884537](#).

The Inbox directory is \\LD0301W03\sapmnt\trans\IEPS\in.

Select a package type to apply

- ☒ Support Package Stack
- ☐ Single Support Packages (advanced use)
- ☐ New Software Components
- ☐ Business Packages (advanced use)

Select whether the system is under NWDI control and the respective NWDI system role

NWDI Control

- ☐ No NWDI control
- ☐ DEV
- ☐ CONS
- ☒ TEST
- ☐ PROD

Back Next Cancel

The screenshot shows the 'SAP - Software Delivery Tools GUI' window at Step 2: Specify Queue. The progress bar shows Step 2 is active. The heading is 'Support Package Stacks > Specify Queue'. It instructs the user to 'Select a support package stack to apply'. A table lists available stacks, with the first one selected. A 'Show Details' button is next to the selected entry. At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

Deployment | Deployed Components | Logs

1 Select Package Type | 2 Specify Queue | 3 Check Queue | 4 Deploy Queue | 5 Completed

Support Package Stacks > Specify Queue

Select a support package stack to apply

Select	Vendor/Name	Target SP Stack Level	Details
<input checked="" type="radio"/>	sap.com/SAP_NETWEAVER_2004S	09	Show Details

Back Next Cancel

....please wait while the Check Queue is in progress as depicted below. This check can take a while, so be patient.

The screenshot shows the SAP Software Delivery Tools GUI. The 'Deployment' tab is active, and the 'Specify Queue' step (2) is highlighted in the progress bar. The main area displays 'Support Package Stacks > Specify Queue'. Below this, it says 'Select a support package stack to apply'. A table lists the available stacks:

Select	Vendor/Name	Target SP Stack Level	Details
<input checked="" type="radio"/>	sap.com/SAP_NETWEAVER_2004S	09	Show Details

At the bottom, there are 'Back', 'Next', and 'Cancel' buttons. A status bar at the very bottom indicates 'Loading archive 'D:\usr\sap\J2EUC01\SDM\program\temp\SAPEU09_0-10003026.SCA''.

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

The screenshot shows the SAP Software Delivery Tools GUI at the 'Check Queue' step (3). The main area displays 'Support Package Stacks > Check Queue'. Below this, it says 'Validation of the dependencies of the selected support package stack'. A message states: 'The J2EE Engine will be restarted during deployment. Stop all running Dialog Instances. If you have an open Microsoft Management Console, close it.' Below this, it says 'The following support package stack will be applied:'. A table lists the components and their status:

Order	Vendor/Name	Current SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status	Details
1	sap.com/SAP_KERNEL	52.0	75.0	OK	Show Details
2	sap.com/BC-FES-IGS	2.0	5.0	OK	Show Details
3	sap.com/SAP_JAVASL	6.0	9.0	OK	Show Details
4	sap.com/BASSETABLES	6.0	9.0	OK	Show Details
5	sap.com/CORE-TOOLS	6.2	9.0	OK	Show Details
6	sap.com/JLOGVIEW	6.0	9.0	OK	Show Details
7	sap.com/SAP-JEE	6.0	9.0	OK	Show Details
8	sap.com/SAP-JEECOR	6.0	9.0	OK	Show Details
9	sap.com/SAP-JTECHF	6.1	9.0	OK	Show Details
10	sap.com/ADSSAP	6.0	9.0	OK	Show Details
11	sap.com/BI_MMR	6.0	9.0	OK	Show Details
12	sap.com/EPBC	6.0	9.0	OK	Show Details
13	sap.com/KM-KW-JIKS	6.0	9.0	OK	Show Details
14	sap.com/CAF-UM	6.0	9.0	OK	Show Details
15	sap.com/SAP-JTECHS	6.0	9.0	OK	Show Details
16	sap.com/BI_UDI	6.0	9.0	OK	Show Details
17	sap.com/CAF	6.0	9.0	OK	Show Details
18	sap.com/LM-TOOLS	6.1	9.0	OK	Show Details
19	sap.com/UMEADMIN	6.0	9.0	OK	Show Details

At the bottom, there are 'Back', 'Next', and 'Cancel' buttons. A status bar at the very bottom indicates 'Validation of selected components has finished.'.

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/VCKIT6P	6.0	9.0	OK	Show 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

SAP - Software Delivery Tools GUI

Help

Deployment Deployed Components Logs

1 Select Package Type 2 Specify Queue 3 Check Queue 4 **Deploy Queue** 5 Completed

Support Package Stacks > Deploy Queue

Deploying the selected support package stack

Deployment is running

Order	Vendor/Name	Old SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status
1	sap.com/SAP KERNEL	52.0	75.0	SCHEDULED
2	sap.com/BC-FES-I6S	2.0	5.0	SCHEDULED
3	sap.com/SAP_JAVASL	6.0	9.0	SCHEDULED
4	sap.com/BASETABLES	6.0	9.0	SCHEDULED
5	sap.com/CORE-TOOLS	6.2	9.0	SCHEDULED
6	sap.com/JLOGVIEW	6.0	9.0	SCHEDULED
7	sap.com/SAP-JEE	6.0	9.0	SCHEDULED
8	sap.com/SAP-JEECOR	6.0	9.0	SCHEDULED
9	sap.com/SAP_JTECHF	6.1	9.0	SCHEDULED
10	sap.com/ADSSAP	6.0	9.0	SCHEDULED
11	sap.com/BI_MMR	6.0	9.0	SCHEDULED
12	sap.com/EPBC	6.0	9.0	SCHEDULED
13	sap.com/KM-KW_IKS	6.0	9.0	SCHEDULED
14	sap.com/CAF-UM	6.0	9.0	SCHEDULED
15	sap.com/SAP_JTECHS	6.0	9.0	SCHEDULED
16	sap.com/BI_UDI	6.0	9.0	SCHEDULED
17	sap.com/CAF	6.0	9.0	SCHEDULED
18	sap.com/LM-TOOLS	6.1	9.0	SCHEDULED
19	sap.com/UMEADMIN	6.0	9.0	SCHEDULED
20	sap.com/NET-PDK	6.0	9.0	SCHEDULED
21	sap.com/RTC	6.0	9.0	SCHEDULED

Back Next Cancel

Java process ID 23 has been started.

....Status IN PROGRESS

The screenshot shows the SAP Software Delivery Tools GUI with the 'Deploy Queue' step highlighted in the progress bar. The status bar at the bottom indicates 'Process ID 34, name ntsmgr.exe has been finished, exit code 0.'

Deployment is running

Order	Vendor/Name	Old SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status
1	sap.com/SAP_KERNEL	52.0	75.0	IN PROGRESS
2	sap.com/BC-FES-IGS	2.0	5.0	SCHEDULED
3	sap.com/SAP_JAVASL	6.0	9.0	SCHEDULED
4	sap.com/BASETABLES	6.0	9.0	SCHEDULED
5	sap.com/CORE-TOOLS	6.2	9.0	SCHEDULED
6	sap.com/JLOGVIEW	6.0	9.0	SCHEDULED
7	sap.com/SAP-JEE	6.0	9.0	SCHEDULED
8	sap.com/SAP-JEECOR	6.0	9.0	SCHEDULED
9	sap.com/SAP-JTECHF	6.1	9.0	SCHEDULED
10	sap.com/ADSSAP	6.0	9.0	SCHEDULED
11	sap.com/BI_MMR	6.0	9.0	SCHEDULED
12	sap.com/EPBC	6.0	9.0	SCHEDULED
13	sap.com/KM-KW_JIKS	6.0	9.0	SCHEDULED
14	sap.com/CAF-UM	6.0	9.0	SCHEDULED
15	sap.com/SAP_JTECHS	6.0	9.0	SCHEDULED
16	sap.com/BI_UDI	6.0	9.0	SCHEDULED
17	sap.com/CAF	6.0	9.0	SCHEDULED
18	sap.com/LM-TOOLS	6.1	9.0	SCHEDULED
19	sap.com/UMADMIN	6.0	9.0	SCHEDULED
20	sap.com/NET-PDK	6.0	9.0	SCHEDULED
21	sap.com/BTC	6.0	9.0	SCHEDULED

Back Next Cancel

Process ID 34, name ntsmgr.exe has been finished, exit code 0.

....Status DEPLOYED, IN PROGRESS, SCHEDULED etc.

The screenshot shows the SAP Software Delivery Tools GUI with the 'Deploy Queue' step highlighted in the progress bar. The status bar at the bottom indicates 'Deployment of software component sap.com/SAP_KERNEL has finished.'

Deployment is running

Order	Vendor/Name	Old SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status
1	sap.com/SAP_KERNEL	52.0	75.0	DEPLOYED
2	sap.com/BC-FES-IGS	2.0	5.0	IN PROGRESS
3	sap.com/SAP_JAVASL	6.0	9.0	SCHEDULED
4	sap.com/BASETABLES	6.0	9.0	SCHEDULED
5	sap.com/CORE-TOOLS	6.2	9.0	SCHEDULED
6	sap.com/JLOGVIEW	6.0	9.0	SCHEDULED
7	sap.com/SAP-JEE	6.0	9.0	SCHEDULED
8	sap.com/SAP-JEECOR	6.0	9.0	SCHEDULED
9	sap.com/SAP-JTECHF	6.1	9.0	SCHEDULED
10	sap.com/ADSSAP	6.0	9.0	SCHEDULED
11	sap.com/BI_MMR	6.0	9.0	SCHEDULED
12	sap.com/EPBC	6.0	9.0	SCHEDULED
13	sap.com/KM-KW_JIKS	6.0	9.0	SCHEDULED
14	sap.com/CAF-UM	6.0	9.0	SCHEDULED
15	sap.com/SAP_JTECHS	6.0	9.0	SCHEDULED
16	sap.com/BI_UDI	6.0	9.0	SCHEDULED
17	sap.com/CAF	6.0	9.0	SCHEDULED
18	sap.com/LM-TOOLS	6.1	9.0	SCHEDULED
19	sap.com/UMADMIN	6.0	9.0	SCHEDULED
20	sap.com/NET-PDK	6.0	9.0	SCHEDULED
21	sap.com/BTC	6.0	9.0	SCHEDULED

Back Next Cancel

Deployment of software component sap.com/SAP_KERNEL has finished.

SAP - Software Delivery Tools GUI

Help

Deployment Deployed Components Logs

1 Select Package Type 2 Specify Queue 3 Check Queue 4 **Deploy Queue** 5 Completed

Support Package Stacks > Deploy Queue

Deploying the selected support package stack

Deployment is running

Order	VendorName	Old SPLevel.PatchLevel	Target SPLevel.PatchLevel	Status
1	sap.com/SAP KERNEL	52.0	75.0	DEPLOYED
2	sap.com/BC-FES-IGS	2.0	5.0	DEPLOYED
3	sap.com/SAP_JAVASL	6.0	9.0	DEPLOYED
4	sap.com/BASETABLES	6.0	9.0	DEPLOYED
5	sap.com/CORE-TOOLS	6.2	9.0	DEPLOYED
6	sap.com/JLOGVIEW	6.0	9.0	DEPLOYED
7	sap.com/SAP-JEE	6.0	9.0	DEPLOYED
8	sap.com/SAP-JEECOR	6.0	9.0	DEPLOYED
9	sap.com/SAP_JTECHF	6.1	9.0	DEPLOYED
10	sap.com/ADSSAP	6.0	9.0	IN PROGRESS
11	sap.com/BI_MMR	6.0	9.0	IN PROGRESS
12	sap.com/EPBC	6.0	9.0	IN PROGRESS
13	sap.com/KM-KW_JIKS	6.0	9.0	SCHEDULED
14	sap.com/CAF-UM	6.0	9.0	IN PROGRESS
15	sap.com/SAP_JTECHS	6.0	9.0	IN PROGRESS
16	sap.com/BI_UDI	6.0	9.0	IN PROGRESS
17	sap.com/CAF	6.0	9.0	IN PROGRESS
18	sap.com/LM-TOOLS	6.1	9.0	IN PROGRESS
19	sap.com/UMADMIN	6.0	9.0	SCHEDULED
20	sap.com/NET-PDK	6.0	9.0	SCHEDULED
21	sap.com/NET-PDK	6.0	9.0	SCHEDULED

Back Next Cancel

[Engine,Restart]

.....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.

SAP - Software Delivery Tools GUI

Help

Deployment Deployed Components Logs

1 Select Package Type 2 Specify Queue 3 Check Queue 4 Deploy Queue 5 **Completed**

Support Package Stacks > Completed

Deployment of support package stack has finished

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.

To view some statistics for your patch procedure and to send your feedback to SAP, open the following [Evaluation Form](#). You can find the Evaluation Form in the D:\usr\sap\J2EE\JC01\j2ee\JSPM\loglog_2006_10_23_15_42_18\JspmResults.html file.

Deployment of support package stack has finished

Order	VendorName	Old SPLevel.PatchLevel	Current SPLevel.PatchLevel	Status	Details
1	sap.com/SAP KERNEL	52.0	75.0	DEPLOYED	Show Details
2	sap.com/BC-FES-IGS	2.0	5.0	DEPLOYED	Show Details
3	sap.com/SAP_JAVASL	6.0	9.0	DEPLOYED	Show Details
4	sap.com/BASETABLES	6.0	9.0	DEPLOYED	Show Details
5	sap.com/CORE-TOOLS	6.2	9.0	DEPLOYED	Show Details
6	sap.com/JLOGVIEW	6.0	9.0	DEPLOYED	Show Details
7	sap.com/SAP-JEE	6.0	9.0	DEPLOYED	Show Details
8	sap.com/SAP-JEECOR	6.0	9.0	DEPLOYED	Show Details
9	sap.com/SAP_JTECHF	6.1	9.0	DEPLOYED	Show Details
10	sap.com/ADSSAP	6.0	9.0	DEPLOYED	Show Details
11	sap.com/BI_MMR	6.0	9.0	DEPLOYED	Show Details
12	sap.com/EPBC	6.0	9.0	DEPLOYED	Show Details
13	sap.com/KM-KW_JIKS	6.0	9.0	DEPLOYED	Show Details
14	sap.com/CAF-UM	6.0	9.0	DEPLOYED	Show Details
15	sap.com/SAP_JTECHS	6.0	9.0	DEPLOYED	Show Details
16	sap.com/BI_UDI	6.0	9.0	DEPLOYED	Show Details

Back Next Cancel


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/DOEXTENSIONS	6.0	9.0	DEPLOYED	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.

Address <http://ld0301w02:50100/index.html> [Go](#) [Links](#)

**SAP NetWeaver™**
SAP Web Application Server



[SAP Library](#)

SAP Library contains the complete documentation for 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.

[SAP NetWeaver Administrator](#)

A tool for administration and monitoring, offering a central entry point to the whole SAP NetWeaver system landscape. The SAP NetWeaver Administrator can be used in a central scenario where it is capable of operating an entire system landscape containing ABAP and Java systems as the application platform of SAP NetWeaver.

[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.

[UDDI Client](#)


The UDDI client provides query and publishing functions for different Web service entities (Models, business services) 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.

[J2EE Engine Examples](#)

This section contains several J2EE application examples that run on the J2EE Engine. The examples show some of the functions of both Java and the J2EE Engine. They can be easily deployed and tested by simply clicking on a button. The full source code of the examples is also available.

Address  http://ld0301w02:50100/sap/monitoring/SystemInfo

System J2E

[Find other systems in SLD...](#)

Message Server		Enqueue Server		Database		Software Components		
Host:	LD0301W02	Host:	LD0301W02	Name:	J2E	Name:	Version	all components...
Port:	3900	Port:	3200	Host:	LD0301W02	sap.com/SAP-JEECOR	7.00 SP9 (1000.7.00.9.0.20060818004900)	Applied 20060222161716
				Type:	SAP DB (KERNEL 7.6.00 BUILD 018-123-119-055)	sap.com/SAP-JEE	7.00 SP9 (1000.7.00.9.0.20060810173100)	20060222161722

Licenses	
Installation Number	SAP-INTERN
System Number	J2E
Software Product	J2EE-Engine_ADA
J2EE-Engine_ADA	180

[Download system configuration](#)

Instance JC01 All processes running

Host: LD0301W02 OS: Windows 2003 (x86) 5.2

dispatcher Running

VM		Cluster	
PID:	3432	Node ID:	19292200
Name:	Java HotSpot(TM) Server VM	Kernel Version:	7.00 PatchLevel
Vendor:	Sun Microsystems Inc.	HTTP Port:	50100
Version:	1.4.2_12-b03	HTTPS Port:	50101
VM Parameters		P4 Port:	50104
		Telnet Port:	50108

server0 Running

VM		Cluster		Debug	
PID:	5080	Node ID:	19292250	Debug Port:	50121
Name:	Java HotSpot(TM) Server VM	Kernel Version:	7.00 PatchLevel	Debug Mode:	false
Vendor:	Sun Microsystems Inc.			Load Balance Restricted:	false
Version:	1.4.2_12-b03				
VM Parameters					

SDM Running

VM	
PID:	360
SDM Port:	50118

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

© Copyright 2006 SAP AG. All rights reserved.

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.