



Installation of NW04 SP Stack 05 Web AS, EP, KMC

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Introduction

Planning and Preparing the installation

Installing SAP NW '04 SP Stack 05

Post installation tasks

Troubleshooting installation problems

Questions and Answers



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Relationship between SP Stack and Component SP's

SP Stack	Web AS Java	Portal Platform	Content Management	TREX	Planned Release Date
SP Stack 05	6.40/SP8 <small>(Renaming to 6.40)</small>	PP 6.0/SP7	CM 6.0/SP7	TREX 6.1.5	released

Please check for most recent updates at SAPNet Alias /SP-Stacks

(September 2004)





Review SAP Web Application Server

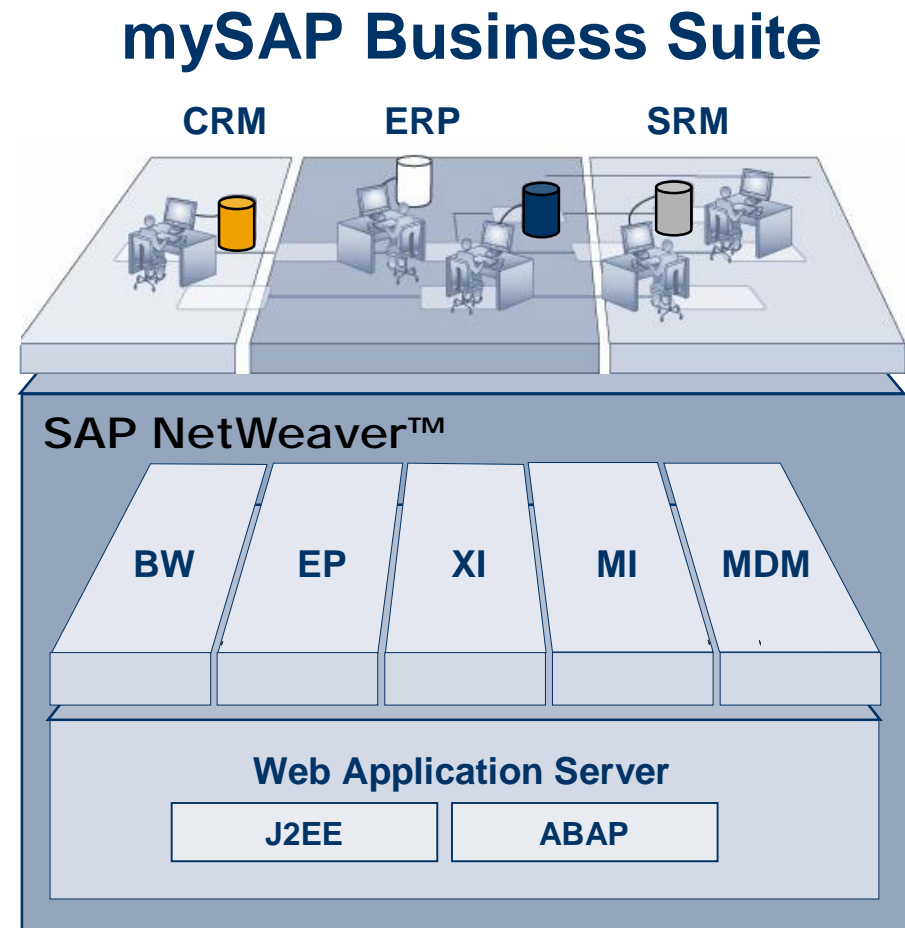
Review Startup Framework

The Web App Server provides a common foundation for NetWeaver

The Web Application Server is the **complete infrastructure** to develop, deploy and run:

- n All SAP NetWeaver components
- n mySAP Business Suite
- n Customer-developed applications
- n 3rd-party Java 2—Enterprise Edition-compliant applications

Integrates the **proven ABAP** and the innovative **internet-driven Java** technology in one application server



SAP Web Application Server Architecture

Shared facilities

- n Common connectivity
- n Common persistence

Shared benefits

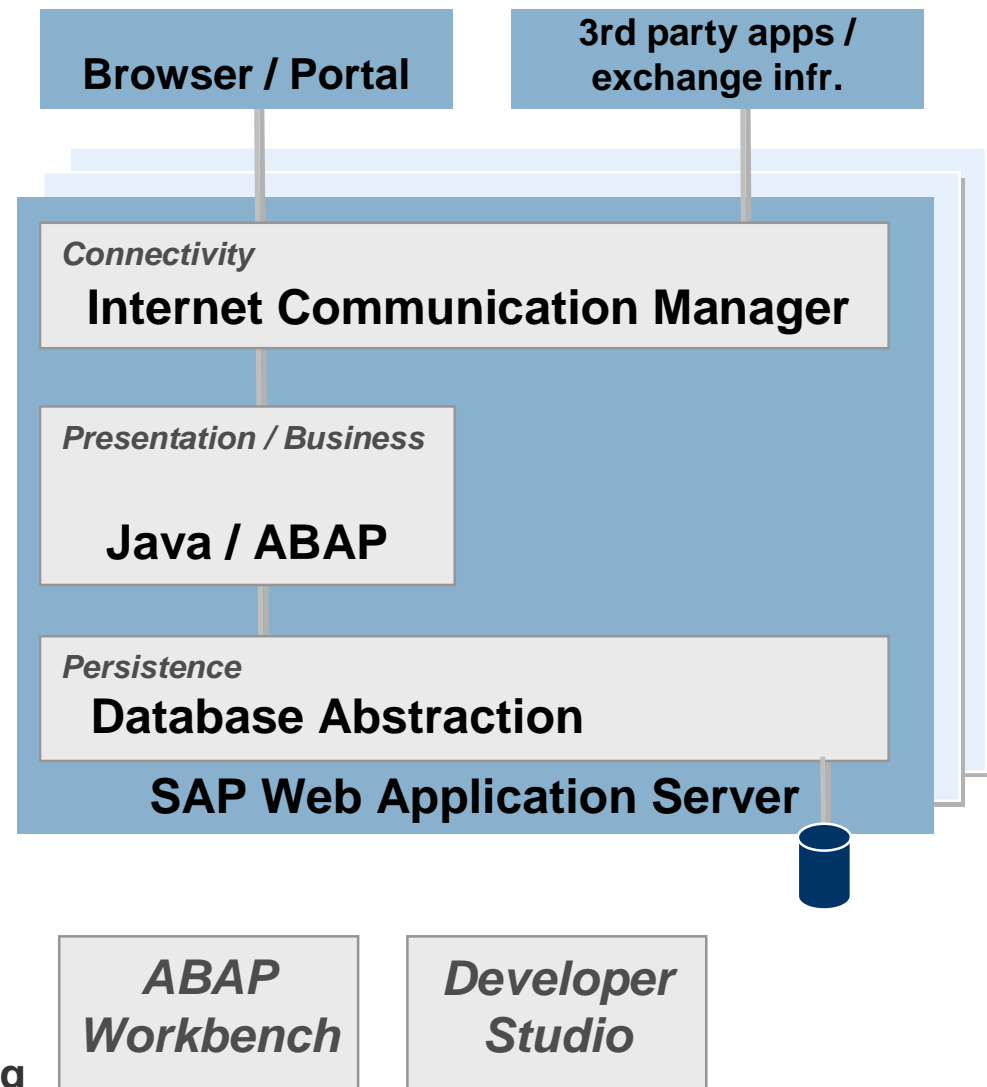
- n Multi tier architecture
- n Highly scalable and reliable
- n Platform independence

Common connectivity

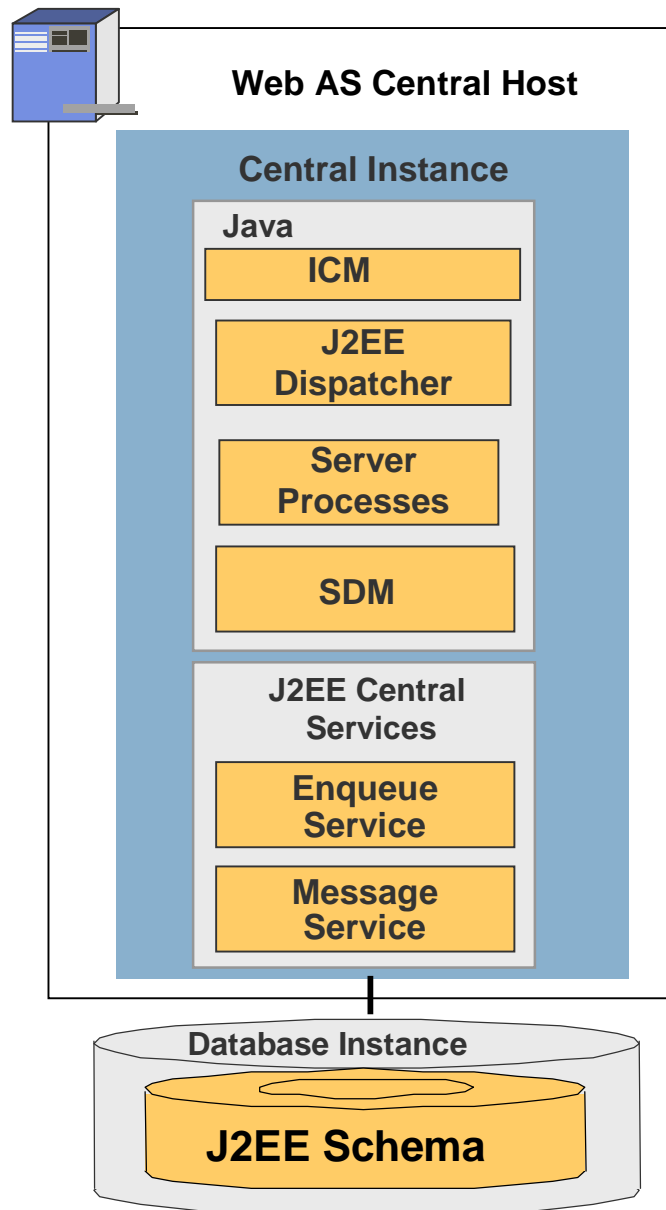
- n Different protocols (SOAP, HTTP, SMTP, RFC, FTP)
- n Expandable
- n Advanced caching

Common persistence

- n Database independence
- n Scalable transaction handling
- n Caching



SAP Web Application Server 6.40: Details



Components

n RDBMS Instance

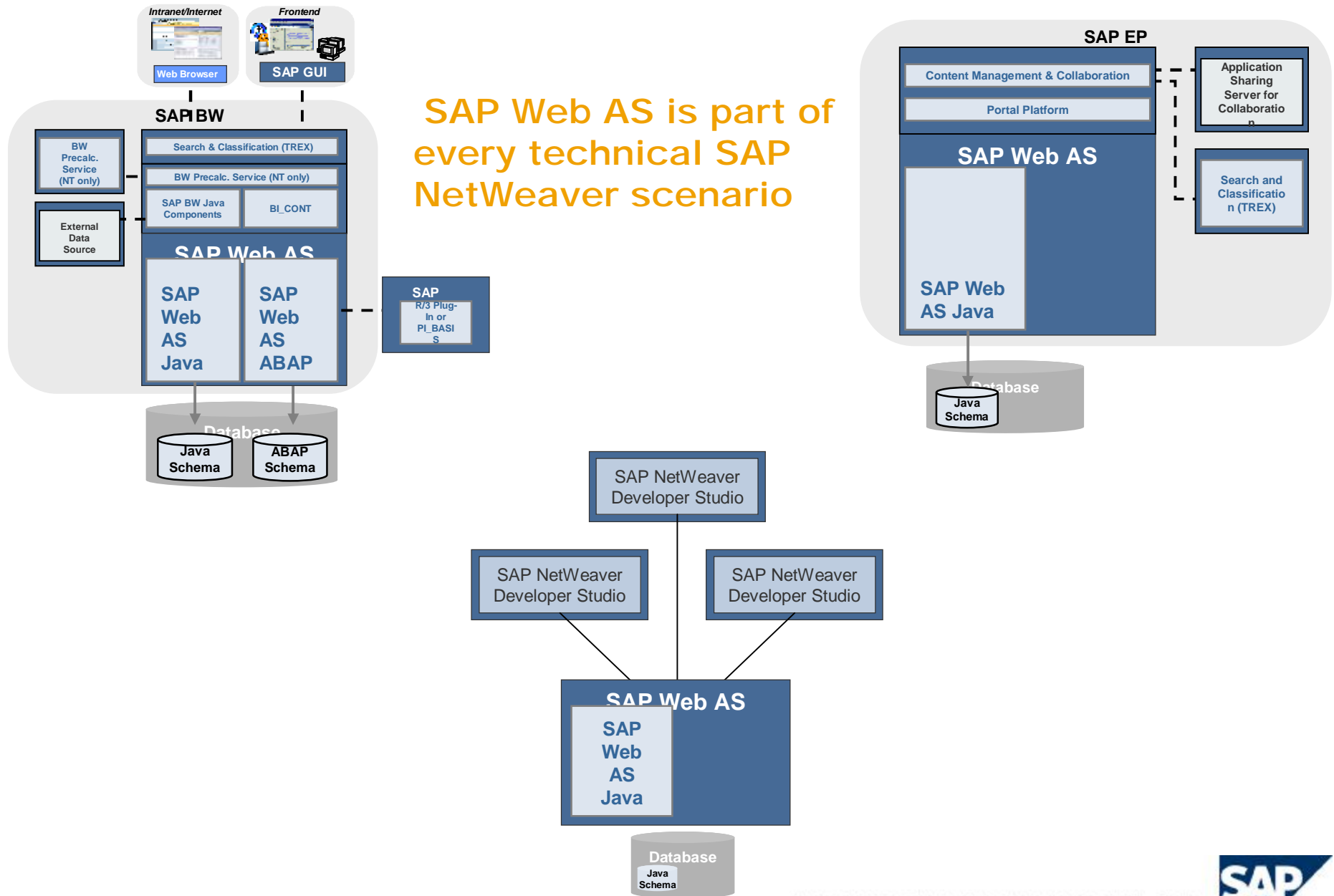
n SCS Instance

n J2EE Engine 6.30/6.40 \geq SP4

n IGS (Internet Graphics Server)

n Monitoring Tools (SAPCCMSR and SAPOsCol)

SAP Web AS as Basis for SAP NetWeaver





Review SAP Web Application Server

Review Startup Framework

THE BEST-RUN BUSINESSES RUN SAP



Features

- n Integration of Java Processes into the SAP instance concept
- n Inherit all management concepts from the ABAP stack
- n Integration into existing SAP instance management
- n Control and Restart functionality of J2EE processes (Watchdog)
- n Daemons for NT (sapserv.exe)
- n Remote Control of all J2EE instances in the cluster
- n Cluster wide management (shutdown, restart ...)
- n Integration of the Startup Framework Client into the IDE
- n Preparation of Remote Debugging Support

JCMon - Monitor Program

- n Command line tool
- n Overview about the instance and process state
- n Local administration menu for the local instance and their processes
- n Cluster administration menu for remote operations

```
-----  
SAP System Name   : C11  
SAP System       : 00  
MS Host          : pcj2ee01  
MS Port         : 3601  
Process Count    : 4  
PID of JControl  : 7244  
State of JControl : All processes running  
State inside MS  : All processes running  
Admin URL       :  
-----
```

Idx	Name	PID	State	Error	Restart
0	server0	5784	Running	0	yes
1	server1	2216	Running	0	yes
2	dispatcher	4748	Running	0	yes
3	SDM	436	Running	0	yes

Important Processes

For the simplest installation (one dispatcher, one server), the following processes must be running :

- n Message Server (msg_server or msg_server.exe)**
- n Enqueue Server (enserver or enserver.exe)**
- n Dispatcher and server process (two jlaunch.exe)**
- n Software Deployment Manager (SDM, jlaunch.exe)**

In jcmmon, all jlaunch processes can be seen.

Using SAPOSCOL* will display all processes started by Jcontrol and Jlaunch in transaction RZ20 of CCMS.

***Supported with SAPJ2EE Engine SP8 (part of SAP NetWeaver Support Package Stack 05)**



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Planning the installation: System environment

Planning the installation: The installation “stack”

Preparing the installation: Operating system

Preparing the installation: Documentation

Preparing the installation: DVDs

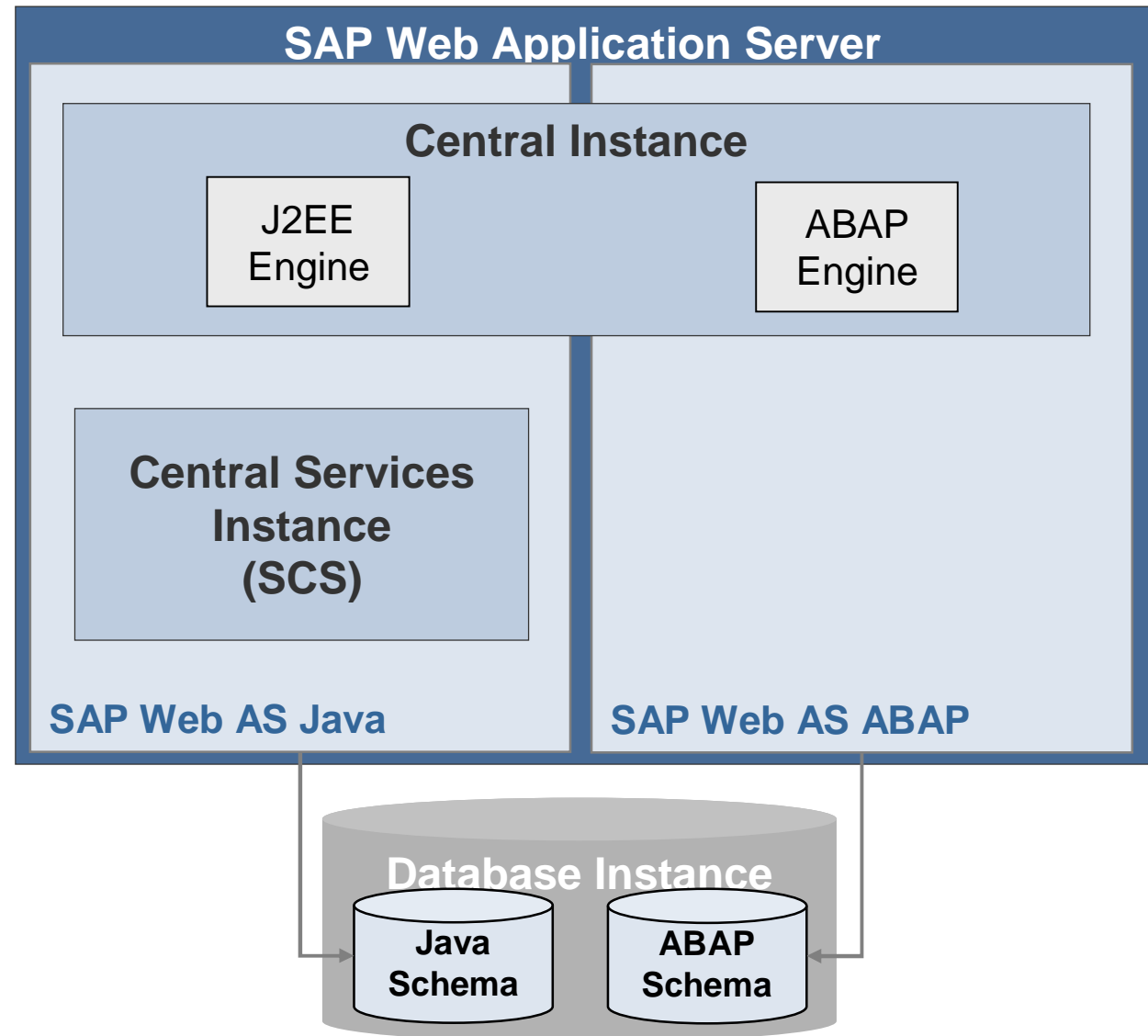
Divider Page Section 6

Basic System Variants of SAP Web AS

For SAP Web AS 6.40, the following basic system variants exist:

- **SAP Web AS ABAP** (ABAP Engine, but no J2EE Engine)
- **SAP Web AS Java** (J2EE Engine, but no ABAP Engine)
- **SAP Web AS ABAP+Java** (ABAP Engine and J2EE Engine)

Detailed view: central instance consists of both ABAP and Java parts, SCS instance only required for Java

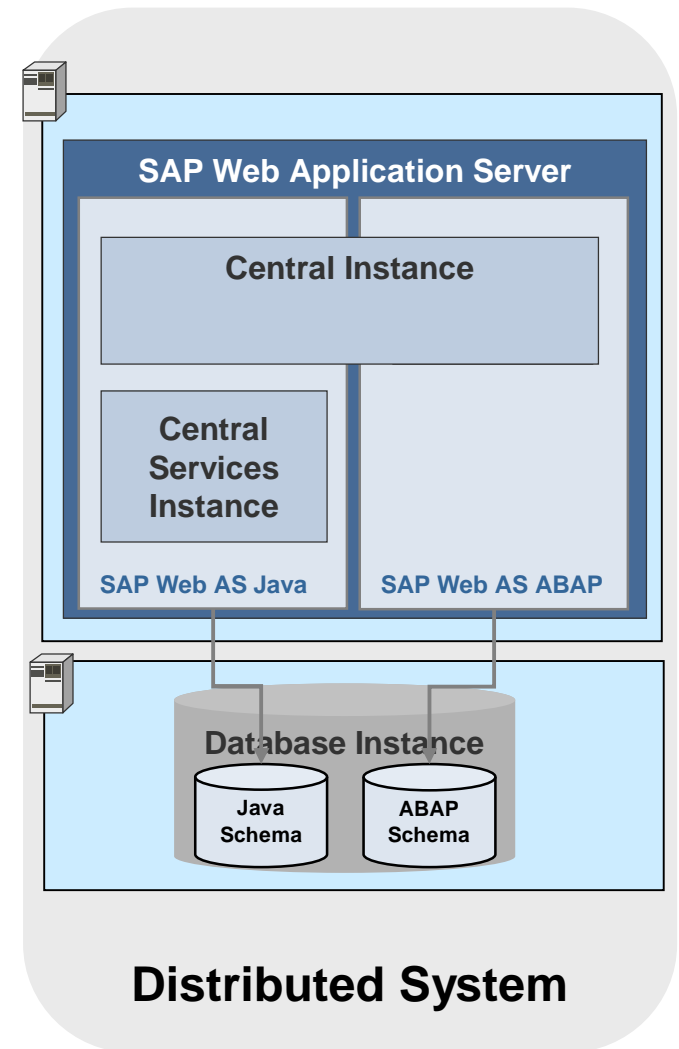
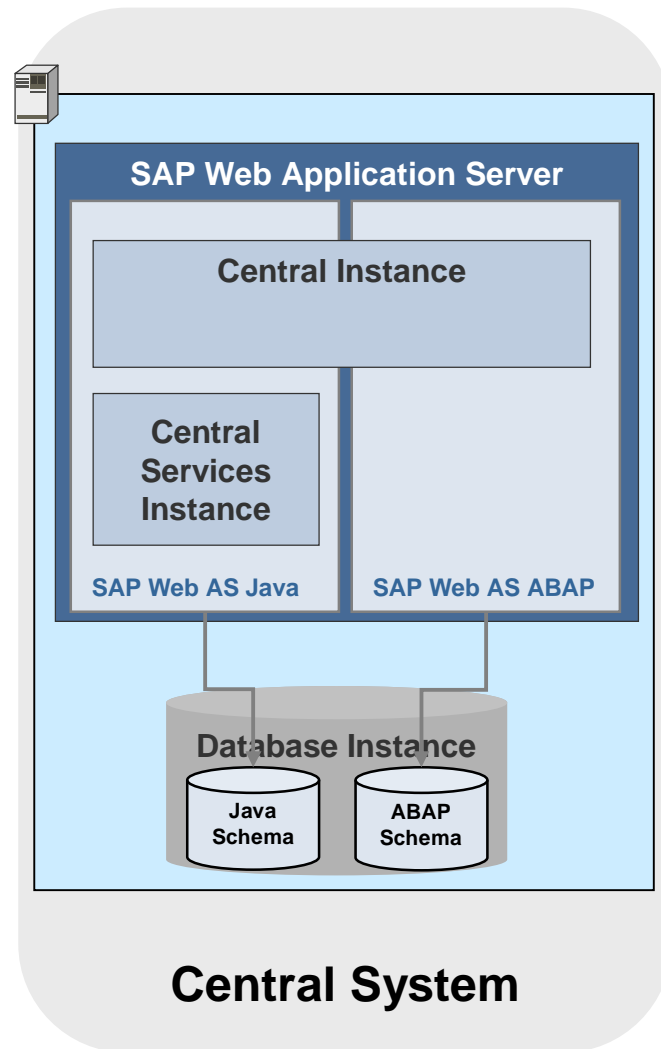


Distribution Options

SCS instance now always gets installed on the central instance host

So, only distribution option for one system is if you want to install a **central** system (CI + DB on one host) or a **distributed** system (CI and DB on different hosts)

à **Complexity reduced**





Planning the installation: System environment

Planning the installation: The installation “stack”

Preparing the installation: Operating system

Preparing the installation: Documentation

Preparing the installation: DVDs

Divider Page Section 6

3. Decision: EP 6.0 SP7 and / or KMC SP7 ? EP 6.0 SP7 only

EP 6.0 only on WAS 6.40 JAVA

EP 6.0 only on WAS 6.40 JAVA

Upgrade / installation from NW `04
Stack 01

Supported



Does not work and
not supported



EP 6.0: EP 6.0 Portal SP7 + Patch1
WAS 6.40: J2EE 6.30 SP8
NW `04 SP Stack 01

EP 6.0: EP 6.0 Portal SP7 + Patch1
EP 6.0: EP 6.0 Portal SP6 + Patchx
EP 6.0: EP 6.0 Portal SP3
WAS 6.40: J2EE 6.30 SP7
WAS 6.40: J2EE 6.30 SP8 incl. DB
J2SE: 1.4.2_05, 64 Bit Patch
OS: Solaris 8 or 9

3. Decision: EP 6.0 SP7 and / or KMC SP7 ? EP 6.0 SP7 only

EP 6.0 only on WAS 6.40 JAVA

Upgrade from NW '04 SP Stack 02

Supported



EP 6.0 only on WAS 6.40 JAVA

Upgrade from NW '04 SP Stack 04

Supported



EP 6.0: EP 6.0 Portal SP7 + Patch1

WAS 6.40: J2EE 6.30 SP8

EP 6.0: EP 6.0 Portal SP4 + Patch1

WAS 6.40: J2EE 6.30 SP5

NW '04 SP Stack 02

EP 6.0: EP 6.0 Portal SP7 + Patch1

WAS 6.40: J2EE 6.30 SP8

NW '04 SP Stack 04

3. Decision: EP 6.0 SP7 and / or KMC SP7 ? EP 6.0 SP6 and KMC SP6

EP 6.0 + KMC on WAS 6.40 JAVA

Officially supported (NW '04 SP Stack 05 Installation Guide)



NW '04 SP Stack 05	KM+C: KM + Collab. SP7 + Patchx
	EP 6.0: EP 6.0 Portal SP7 + Patchx
NW '04 SP Stack 04	KM+C: KM + Collab. SP6 Patch 2
	KM+C: KM + Collaboration SP6
	EP 6.0: EP 6.0 Portal SP6 + Patchx
	WAS 6.40: J2EE 6.30 SP8
NW '04 SP Stack 02	KM+C: KM + Collaboration SP4
	EP 6.0: EP 6.0 Portal SP4
	EP 6.0: EP 6.0 Portal SP3
	WAS 6.40: J2EE 6.30 SP4
	WAS 6.40: J2EE 6.30 SP3 incl. DB
	J2SE: 1.4.2_05, 64 Bit Patch
	OS: Solaris 8 or 9

Installation procedure simplified with Support Release 1



Planning the installation: System environment

Planning the installation: The installation “stack”

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Divider Page Section 6

Check OS Dependencies – Software Requirements

Example for SUN Solaris

Operating System:

- Check the version of your OS and Patch level: `uname -a | showrev -p`
- Check supported Language locales: `locale -a`

Check and Modifying the UNIX Kernel

- SAP Note: 395438 „ /etc/system parameter settings for Solaris“
- SAP Note: 499759 „High temporary swap space usage during start-up“

Check values for users

- in csh: `limit -a`
 - | value for data: 2097148 kB
 - | value for memory: unlimited
- If OS Users created manually, check:
 - | <sapsid>adm is a member of the groups: sapsys (primary group), oper, dba.
 - | ora<sapsid> is a member of the groups: dba (primary group), oper.

Check the installed version of the J2SE

- `java -version` or `java -full version`

Set DISPLAY, JAVA_HOME, PATH, LD_LIBRARY_PATH

4. Decision: SAP Web AS Java 6.40 Standard Ports

SAP Web AS Java port calculation:

$50000 + 100 * snr + port_index$

n snr= instance number

n Port_index= left table column

n Examples:

u AdminTool: port 50004

u Telnet: port 50008

This way port conflicts should be avoided.

You can individually configure every port the J2EE Engine uses

n Port numbers are configured in Visual Administrator

n Remember that all requests go through dispatcher!

0	HTTP port
1	HTTP SSL port
2	IIOp Initial Context port
3	IIOp SSL port
4	P4 port
5	P4 HTTP Tunneling port
6	P4 SSL port
7	IIOp port
8	Telnet port
9	Monitor port
10	JMS port



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Divider Page Section 6

The Service Marketplace (SMP) remains the central repository for all SAP documentation and reference materials related to NetWeaver 04 implementation.

The alias `/instguidesnw04` is the official home for all NetWeaver 04 installation, upgrade, and operations manuals.

The alias `/sp-stacks` will lead you to an overview of a certain NetWeaver 04 stack and the corresponding components.

SAP Help at <http://help.sap.com/nw04> remains the official home for all product documentation.

Best Practices in Web AS Installation

The `/instguidesnw04` alias of SMP provides all the necessary documentation for NetWeaver Web AS and component installations.

The new guides are arranged into seven primary content areas:

Category	Description	Content
Planning*	Documentation that should be read before installing and operating SAP NetWeaver software.	<ul style="list-style-type: none"> ■ Master Guide ■ ... <i>and others</i>
Installation*	Documentation on how to install SAP NetWeaver software.	<ul style="list-style-type: none"> ■ Installation Guides
Upgrade*	Documentation on how to upgrade former releases to SAP NetWeaver '04.	<ul style="list-style-type: none"> ■ Upgrade Guides
Operations*	Documentation on how to maintain SAP NetWeaver software, including how to install Support Packages (SPs).	<ul style="list-style-type: none"> ■ Support Package Installation Guides ■ ... <i>and others</i>
SAP Notes*	Instant access to the central SAP notes for SAP NetWeaver '04 and its components.	<ul style="list-style-type: none"> ■ Central Note for Master Guide ■ Central Note for Upgrade Master Guide ■ Release Restrictions of SAP NW '04 ■ ... <i>and others</i>
How-to Guides	Documentation of special cases, tips & tricks, or other information supplementary to the standard guides. You can find additional How-To guides in other folders (e.g., Planning), organized by subject.	
SAP NetWeaver Library	Documentation covering how to configure, administer, secure, operate and use SAP NetWeaver components. Published on SAP Help Portal at help.sap.com/nw04 .	<ul style="list-style-type: none"> ■ Getting Started ■ Release Notes ■ Configuration ■ Technical Operations Manual (TOM) ■ Security Guide ■ Architecture** ■ Administration Guides** ■ End User Guides** ■ Solution Life Cycle Management
<u>Service MarketPlace Installation Guides</u>		

Planning the NetWeaver Installation

All installations begin with a review of the current “Master Guide – SAP NetWeaver 04” and “Planning the SAP Web AS Installation on”



File Type	Title	Lang.	Component	Changed	Size [KB]
	High Availability Guide - SAP XI 3.0	E	SAP XI	02.08.2004	818
	Master Guide - SAP NetWeaver '04	E	Cross-NW	05.08.2004	1050
	Planning the SAP Web AS Installation on UNIX: Oracle	E	SAP Web AS	01.04.2004	
	Security Guide - SAP NetWeaver	E	Cross-NW	06.04.2004	
	Sizing Guide - SAP Exchange Infrastructure 3.0	E	SAP XI	13.07.2004	
	Technical Infrastructure Guide - SAP Enterprise Portal 6.0	E	SAP EP	08.08.2004	349
	Technical Infrastructure Guide - SAP XI 3.0	E	SAP XI	15.06.2004	313
	Unicode Guide - SAP Exchange Infrastructure	E	SAP XI	06.04.2004	553
	Upgrade Master Guide - SAP NetWeaver '04	E	Cross-NW	03.06.2004	394

Central Notes

Central Notes provide the most recent updates to documentation and procedures that are required for a successful installation.

This is accessed from the SAP Notes Link on the /instguidesnw04 alias.



SAP NetWeaver '04 - General Notes

668608	Master Guide SAP NetWeaver '04
685000	Upgrade Master Guide SAP NetWeaver '04
707730	Release Restrictions of SAP NetWeaver '04
701097	SAP NetWeaver '04 Documentation

SAP NetWeaver '04 - Component-Specific Notes

SAP Web Application Server

723288	Installation Note SAP Web AS 6.40
661640	Additional information on upgrading to SAP Web AS 6.40
667313	Adobe Document Service Installation on SAP Web AS 6.40
682619	Adobe Document Services: Configuration Guide

Portal

713295	Central Note for EP 6.0 SP3
693969	Central Note for Installing EP 6.0 SP3 (Portal Platform)
715246	Central Note for EP 6.0 SP3 Patches
709354	Release Restrictions For EP 6.0 SP3
734479	Central Note for EP 6.0 on Web AS 6.40 NW04 Feature Pack
642775	Central Note for EP 6.0 SP Stack 04 Patches

■ Preparing Installation: SAP Notes Collection

Important

668606: SAP Web AS 6.40 Java Installation on UNIX

668604: SAP Web AS 6.40 Installation on UNIX: Oracle

668602: SAP Software on UNIX: OS Dependencies

552522: JAVA VM Parameter settings (1.4.2)

306408: Corresponding Perl version for Oracle Database

601965: Latest Version of the Oracle Universal Installer

Additional / Optional:

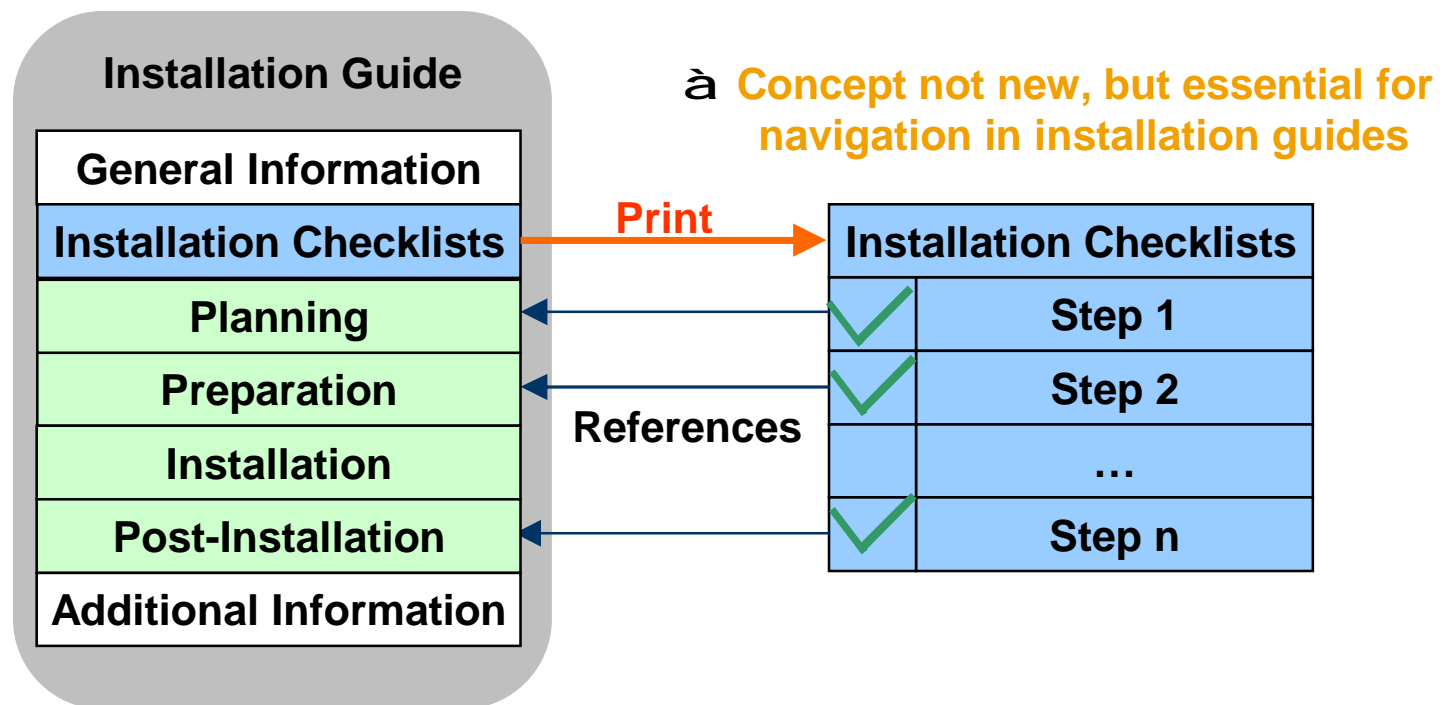
701385: SAP J2EE Engine 6.30, 6.40 Release Information

à Build numbers and SP level of the J2EE Engine

Concept of Installation Checklists in Installation Guides

List chronologically the actions that you must perform:

- n You **choose and print out** the relevant installation checklist(s) for your installation (there is one checklist for each installation service).
- n If a step is required for your installation, you **follow the link** for that step to the corresponding section.
- n You **perform** the procedure described there.
- n After successfully completing the installation step, you **mark** the corresponding entry in the printed table with ✓ to log the progress of your installation.
- n You **proceed** with the next step in the checklist



Evaluation of Planning Guide for UNIX/Oracle

- n All planning steps shifted to new guide
 - n You choose a **basic system variant** of SAP Web AS.
 - n You **choose the SAP instances** you want to install.
 - n You **choose how you want to distribute** the SAP instances to installation hosts.
 - n You decide if you want to perform a **MCOD** installation.
 - n You decide if you want to use the **LDAP** for SAP Logon or for the Microsoft Management Console (MMC).
 - n For every SAP instance, you **collect the values of the installation parameters** listed in the corresponding parameter tables.
- n In the present installation guides, only tasks will remain that have to be performed 'on the system'
- n There is **one parameter table** for every installation service of SAPinst, it contains descriptions of the SAPinst dialogs for your installation
 - à Sequence of dialogs is correct
- n Evaluation for **UNIX/Oracle** only
 - à Will be realized for other DBs and platforms if **YOU** provide positive feedback

à Usage of this documentation is mandatory for installations on UNIX/Oracle

Planning Guide Scenarios: Basic System Variants, Distribution, Parameter Guide

Basic System Variants	Distribution	Parameter Guide
SAP Web AS ABAP+Java system With this variant, you can operate both the ABAP Engine and the J2EE Engine in one system.	Central System	Parameter Guide - Central SAP Web AS ABAP+Java
	Distributed System	Parameter Guide - Distributed SAP Web AS ABAP+Java
SAP Web AS ABAP system This variant only consists of the ABAP Engine. There is no J2EE Engine.	Central System	Parameter Guide - Central SAP Web AS ABAP
	Distributed System	Parameter Guide - Distributed SAP Web AS ABAP
SAP Web AS Java system This variant only consists of the J2EE Engine in addition to auxiliary services. There is no ABAP Engine	Central System	Parameter Guide - Central SAP Web AS Java
	Distributed System	Parameter Guide - Distributed SAP Web AS Java

If you prefer, you can get the contents of all guides referenced on this page in a single [Planning and Parameter Guide - SAP Web AS on UNIX: Oracle](#). This single guide comprises the planning guide and **all** parameter guides shown above. Since this single guide is very large, we recommend that you normally use the planning guide and **one** parameter guide.



Planning the installation: System environment

Planning the installation: The installation “stack”

Preparing the installation: Operating system

Preparing the installation: Documentation

Preparing the installation: DVDs

Divider Page Section 6

DVDs (1) – Basic System Variant

SAP Web AS J2EE system:

n Central System

↳ SAP Master DVD, J2EE Engine DVD, All RDBMS DVDs, SAP IGS DVD

n Distributed System – Prepare the Central Instance

↳ SAP Master DVD, J2EE Engine DVD, SAP IGS DVD

n Distributed System – Complete Central Instance and install the Central services instance

↳ SAP Master DVD, J2EE Engine DVD, SAP IGS DVD

n Distributed System – Install the Database Instance

↳ SAP Master DVD, All RDBMS DVDs, SAP IGS DVD

n SAP Web AS – J2EE Dialog Instances

↳ SAP Master DVD, J2EE Engine DVD, SAP IGS DVD

DVDs (2) – Basic System Variant

SAP Web AS ABAP + J2EE system Add-Ins

n J2EE Add-In Central System

- u SAP Master DVD, J2EE Engine DVD

n J2EE Add-In Distributed System – Install Database schema

- u SAP Master DVD

n J2EE Add-In Distributed System – Complete Central Instance and install the Central services instance

- u SAP Master DVD, J2EE Engine DVD

n Dialog Instances for the SAP J2EE Add-In

- u SAP Master DVD, J2EE Engine DVD

If you copy the DVDs locally, ensure the copy of LABEL.ASC (recognition of DVD)

DVDs: (3) – Distribution: Java Stack only SAP NetWeaver '04 Installation Master / Oracle

Selection of installation paths: (à See ReadMe.TXT)

n IM1

‣ SAP Installation Master CD Oracle I386 LINUX_32 AIX_64 IA64

n IM2

‣ SAP Installation Master CD Oracle HPIA64 HP11_64 DEC_64 **SUNOS_64**

n IM3

‣ SAP Installation Master CD Oracle LINUXIA64_64

n IM4

‣ SAP Installation Master CD Oracle IA64

Select Path IM2 for Installation under SUN Solaris

Copy the File „LABEL.ASC“ (SAPInst reads this informations about the DVD content)

Preparing Installation DVDs

- n Make all required DVDs available in parallel
- n !!! Export DVD and RDBMS DVD (if required) **MUST BE** available in parallel

Disk space requirements:

- u 130 MB minimum for each J2EE installation service
- u 200 MB maximum for SAPInst executables
- u 250 MB approximately in /tmp



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THE BEST-RUN BUSINESSES RUN SAP





Installation Concepts

SAPInst in detail

SAP Patch Installer

Used installation concepts / mechanisms

EP 6.0 SP7 and KMC SP7

EP 6.0 + KMC on WAS 6.40 JAVA

Installation concept Source

NW '04 SP Stack 05	KM+C:	KM + Collab. SP7 + Patchx	SAPinst Patch Installer	SMP
	EP 6.0:	EP 6.0 Portal SP7 + Patchx	SAPinst Patch Installer	SMP
NW '04 SP Stack 04	KM+C:	KM + Collab. SP6 Patch 2	SAPinst Patch Installer	SMP
	KM+C:	KM + Collaboration SP6	SAPinst Patch Installer	SMP
	EP 6.0:	EP 6.0 Portal SP6 + Patchx	SAPinst Patch Installer	SMP
	WAS 6.40:	J2EE 6.30 SP8	SAPinst Patch Installer	SMP
NW '04 SP Stack 02	KM+C:	KM + Collaboration SP4	SAPinst Patch Installer	SMP
	EP 6.0:	EP 6.0 Portal SP4	SAPinst Patch Installer	SMP
	EP 6.0:	EP 6.0 Portal SP3	SAPinst Installer	DVD, SMP
	WAS 6.40:	J2EE 6.30 SP4	SAPinst Patch Installer	SMP
	WAS 6.40:	J2EE 6.30 SP3 incl. DB	SAPinst Installer	DVD, SMP
	J2SE:	1.4.2_05, 64 Bit Patch		
	OS:	Solaris 8 or 9		

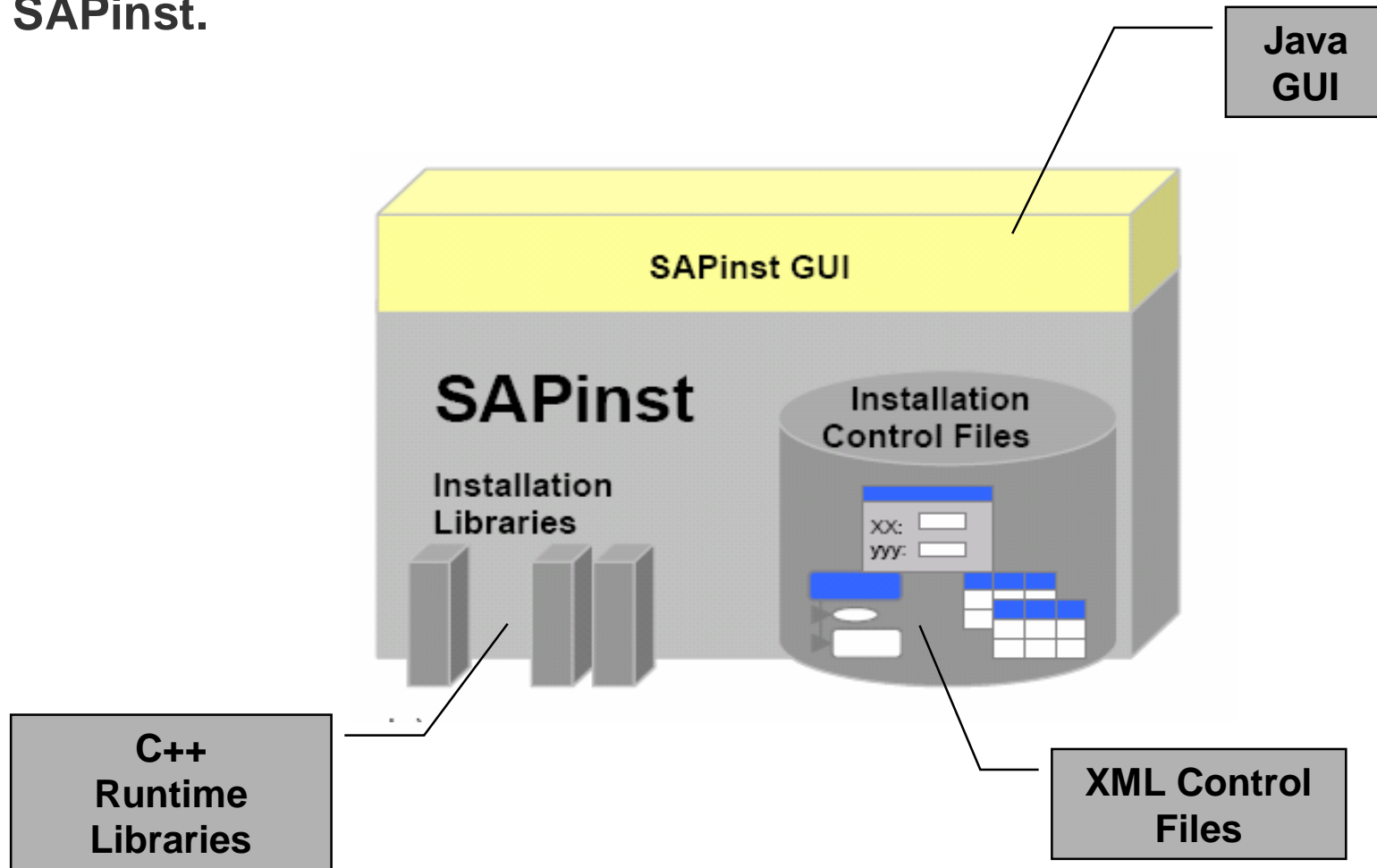


Installation Concepts

SAPInst in detail

SAP Patch Installer

SAP provides a standard installation tool for server installations, called System Landscape Implementation Manager, known for short as SAPInst.



SAPInst: Start Options for SAPInst

There are two ways to start SAPInst:

n Start SAPInst **directly from the Installer directory**

- u SAPInst creates a subfolder „sap_instdir“ in /tmp. Ensure, that content below /tmp will NOT be deleted after a reboot.
- u SAPInst extracts executables in /tmp. This folder has the name sapinst_exe.xxxxxx.xxxx (where xxxxxx.xxxx is a unique random number).
- u If /tmp does not exists, the installation terminates
- u /tmp file might be cleaned up from OS during/after reboot

n Launch SAPInst **from an extra installation directory**

- u You can launch SAPInst from an extra installation directory e.g. /home/install/SAPInst
- u If this directory is empty SAPInst will copy and store all necessary files for the installation into this directory.
- u If you launch the SAPInst within a directory which is not empty, SAPInst tries to continue the installation based on the files stored there.



Installation Concepts

SAPInst in detail

SAP Patch Installer

THE BEST-RUN BUSINESSES RUN SAP



Patch Installer: Locate Files at Service Marketplace

You are here:

- ▼ SAP Software Distribution Center
 - ▼ Download
 - ▼ Support Packages and Patches
 - Search for Support Packages and Patches
 - **Entry by Application Group**
 - My Application Components
 - ▶ Installations and Upgrades
 - RampUp for SAP Installations and Upgrades
 - ▶ Archive for Support Packages and Patches
 - Download Content from iView Studio
 - Database Patches
 - SAP Cryptographic Software
 - SAP Connectors
 - Development Projects
 - Emergency Requests
 - Ordering SAP-Software
 - ▶ Additional Information
 - ▶ Search
 - System data

SAP NETWEAVER

Support Packages and Patches

[Support Packages and Patches](#) → [SAP NetWeaver](#) → [SAP NETWEAVER](#)

SAP NETWEAVER

- [SAP NETWEAVER 04](#)

Info Page | **Navigation Tree Filter OFF**

SAP NetWeaver'04

This is the download summary for SAP NetWeaver'04 Support Package. General information about SAP Support Package Stacks can be found in the SAP Help Portal. Please read the corresponding documentation specified below before applying the selected SP Stack.

To avoid technical problems when applying Support Package queues, the required splits provided in [SAP Note 672651](#).

To give feedback about the SAP NetWeaver'04 Support Package Stack, please use the feedback link at the top. If your feedback is oriented towards a specific SP Stack, please mention this component or 'Docu' in the title.

Patch Installer: Locate Files at Service Marketplace

SAP NETWEAVER

- [SAP NETWEAVER 04](#)

Info Page Navigation Tree Filter OFF

affected component.
 Have a look at the SAP Support Package [Stack Schedule 2004](#) for dates of further SP Stacks.
 You may also want to check for [Side Effects](#) of the ABAP Support Packages selected below.

Select Scenario	Select SP Stack	
SAP EP 6.0 on Web AS 6.4	Stack 5 <input checked="" type="radio"/>	Stack 4 <input type="radio"/>

Documentation [Click here](#) [Click here](#)

SAP Library Patch

Installation Instructions [See S](#)
 English Version [See S](#)
 German Version [See S](#)

1. Select your NetWeaver '04 Scenario

NW Java	Select your Platform / OS	Required Level	Required Level	
EP Portal Platform	SOLARIS_64	SAPINST07, EP6CTRL07, EP6TOOLS07, EP6PORTAL07	SAPINST06, EP6CTRL06, EP6TOOLS06, EP6PORTAL06	Download Page
Web AS Java	SOLARIS_64	J2EERT08 (OS-independent), SAPINST08, CRTL<DB>08, J2EERTOS08	J2EERT07 (OS-independent), SAPINST07, CRTL<DB>07, J2EERTOS07	Download Page
<i>Optional Components</i>				
	Select your Platform / OS	Required Level	Required Level	
EP Knowledge Management	SOLARIS_64	EP6KMC07	EP6KMC06	Download Page
TREX	SOLARIS	TXSAPINST05, TREX6105, TREX61OS05	TXSAPINST04, TREX6104, TREX61OS04	Download Page

2. Locate corresponding files and go to download page(s)

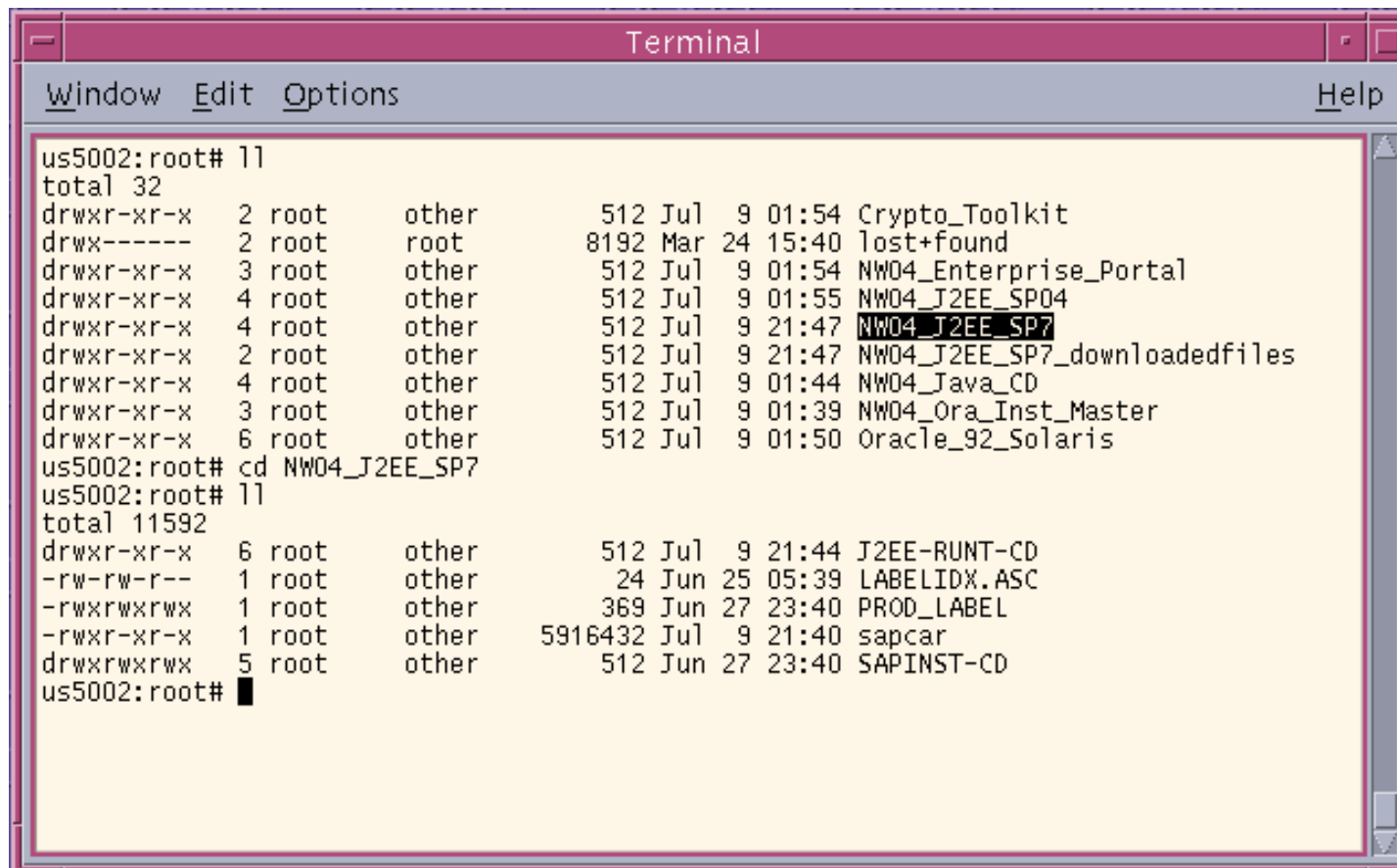
Result: Downloaded SAR-Files in a temp directory

```
Terminal
Window Edit Options Help
us5002:root# ll
total 32
drwxr-xr-x  2 root   other    512 Jul  9 01:54 Crypto_Toolkit
drwx-----  2 root   root      8192 Mar 24 15:40 lost+found
drwxr-xr-x  3 root   other    512 Jul  9 01:54 NW04_Enterprise_Portal
drwxr-xr-x  4 root   other    512 Jul  9 01:55 NW04_J2EE_SP04
drwxr-xr-x  4 root   other    512 Jul  9 21:47 NW04_J2EE_SP7
drwxr-xr-x  2 root   other    512 Jul  9 21:47 NW04_J2EE_SP7_downloadedfiles
drwxr-xr-x  4 root   other    512 Jul  9 01:44 NW04_Java_CD
drwxr-xr-x  3 root   other    512 Jul  9 01:39 NW04_Ora_Inst_Master
drwxr-xr-x  6 root   other    512 Jul  9 01:50 Oracle_92_Solaris
us5002:root# cd NW04_J2EE_SP7_downloadedfiles
us5002:root# ll
total 730872
-rw-r--r--  1 root   other    187 Jul  9 21:14 ctrlora07_0.info
-rw-r--r--  1 root   other  2358305 Jul  9 21:14 ctrlora07_0.sar
-rw-r--r--  1 root   other    190 Jul  9 21:13 j2eert07_0.info
-rw-r--r--  1 root   other 227435732 Jul  9 21:14 j2eert07_0.sar
-rw-r--r--  1 root   other    190 Jul  9 21:14 j2eertos07_0.info
-rw-r--r--  1 root   other  97453957 Jul  9 21:15 j2eertos07_0.sar
-rw-r--r--  1 root   other    168 Jul  9 21:15 sapinst07_0.info
-rw-r--r--  1 root   other  46718387 Jul  9 21:15 sapinst07_0.sar
us5002:root#
```


Extracting files: Example J2EE 6.30 SP7

Extracted files:

sapinst07_0.sar, j2eertos07_0.sar, j2eert07_0.sar, ctrlora07_0.sar



```
Terminal
Window Edit Options Help
us5002:root# ll
total 32
drwxr-xr-x  2 root   other    512 Jul  9 01:54 Crypto_Toolkit
drwx-----  2 root   root     8192 Mar 24 15:40 lost+found
drwxr-xr-x  3 root   other    512 Jul  9 01:54 NW04_Enterprise_Portal
drwxr-xr-x  4 root   other    512 Jul  9 01:55 NW04_J2EE_SP04
drwxr-xr-x  4 root   other    512 Jul  9 21:47 NW04_J2EE_SP7
drwxr-xr-x  2 root   other    512 Jul  9 21:47 NW04_J2EE_SP7_downloadedfiles
drwxr-xr-x  4 root   other    512 Jul  9 01:44 NW04_Java_CD
drwxr-xr-x  3 root   other    512 Jul  9 01:39 NW04_Ora_Inst_Master
drwxr-xr-x  6 root   other    512 Jul  9 01:50 Oracle_92_Solaris
us5002:root# cd NW04_J2EE_SP7
us5002:root# ll
total 11592
drwxr-xr-x  6 root   other    512 Jul  9 21:44 J2EE-RUNT-CD
-rw-rw-r--  1 root   other     24 Jun 25 05:39 LABELIDX.ASC
-rwxrwxrwx  1 root   other    369 Jun 27 23:40 PROD_LABEL
-rwxr-xr-x  1 root   other  5916432 Jul  9 21:40 sapcar
drwxrwxrwx  5 root   other    512 Jun 27 23:40 SAPINST-CD
us5002:root#
```

Result: „Installation CD“



Introduction

Planning and Preparing the installation

Installing SAP NW '04 SP Stack 05

Post installation tasks

Troubleshooting installation problems

Questions and Answers



Starting & Stopping

Checking J2EE, UME, Portal and KMC availability

How to check the correct startup of EP 6.0

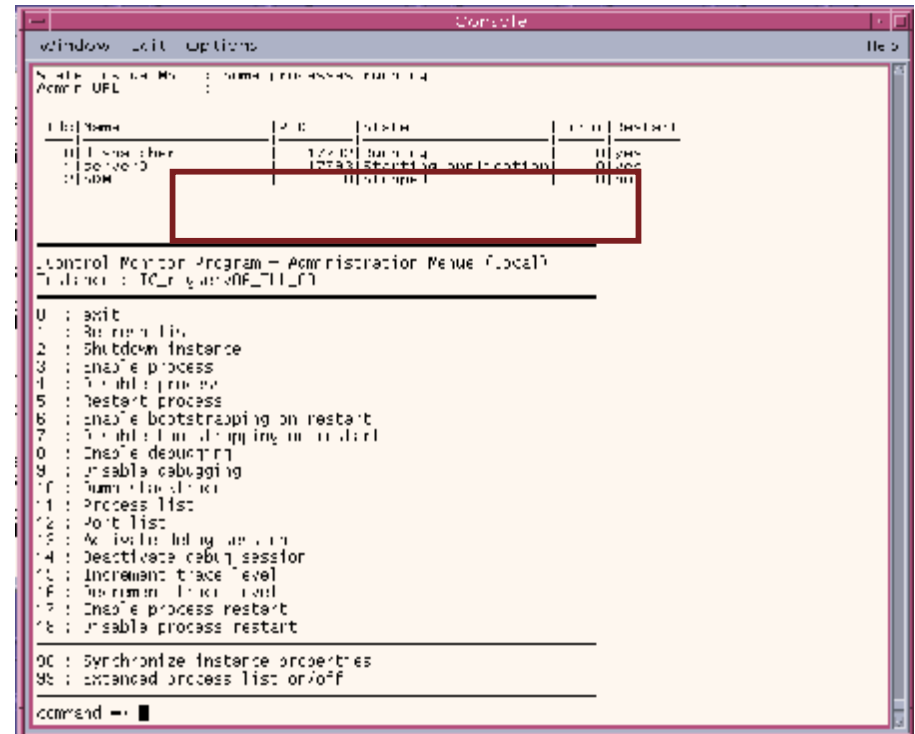
JCMON

displays the server process in status “Running” only, if all applications have been started up successfully.

If an application is still in the startup process, JCMON will describe the status as “Starting up”.

SAPMMC

has to change the server status from “RED” to “GREEN”.



The screenshot shows a console window titled "Console" with a menu bar (window, edit, options) and a status bar (file 5). The main content displays system statistics for SAP processes:

```
System Statistics: sum processes: 000004
Admin UFL:

```

Process Name	PID	STATUS	CPU	MEMORY
00000000	12280	Running	00.00%	00.00%
00000000	12288	Starting up	00.00%	00.00%
00000000	00000000	Stopped	00.00%	00.00%

Below the table, a red rectangular box highlights the "Starting up" status of the second process. Underneath, a list of control commands is shown:

```
Control Pointon Program - Administration Menu (Local)
Instance: TC01_gar00FL01100

```

- 0 : exit
- 1 : Re-run list
- 2 : Shutdown instance
- 3 : enable process
- 4 : enable process
- 5 : restart process
- 6 : enable bootstrapping on restart
- 7 : enable bootstrapping on restart
- 8 : enable debugging
- 9 : enable debugging
- 10 : sum processes
- 11 : process list
- 12 : port list
- 13 : activate debugging
- 14 : deactivate debug session
- 15 : increment trace level
- 16 : increment trace level
- 17 : enable process restart
- 18 : enable process restart

At the bottom, there are options for synchronizing instance properties and toggling the advanced process list, followed by a command prompt:

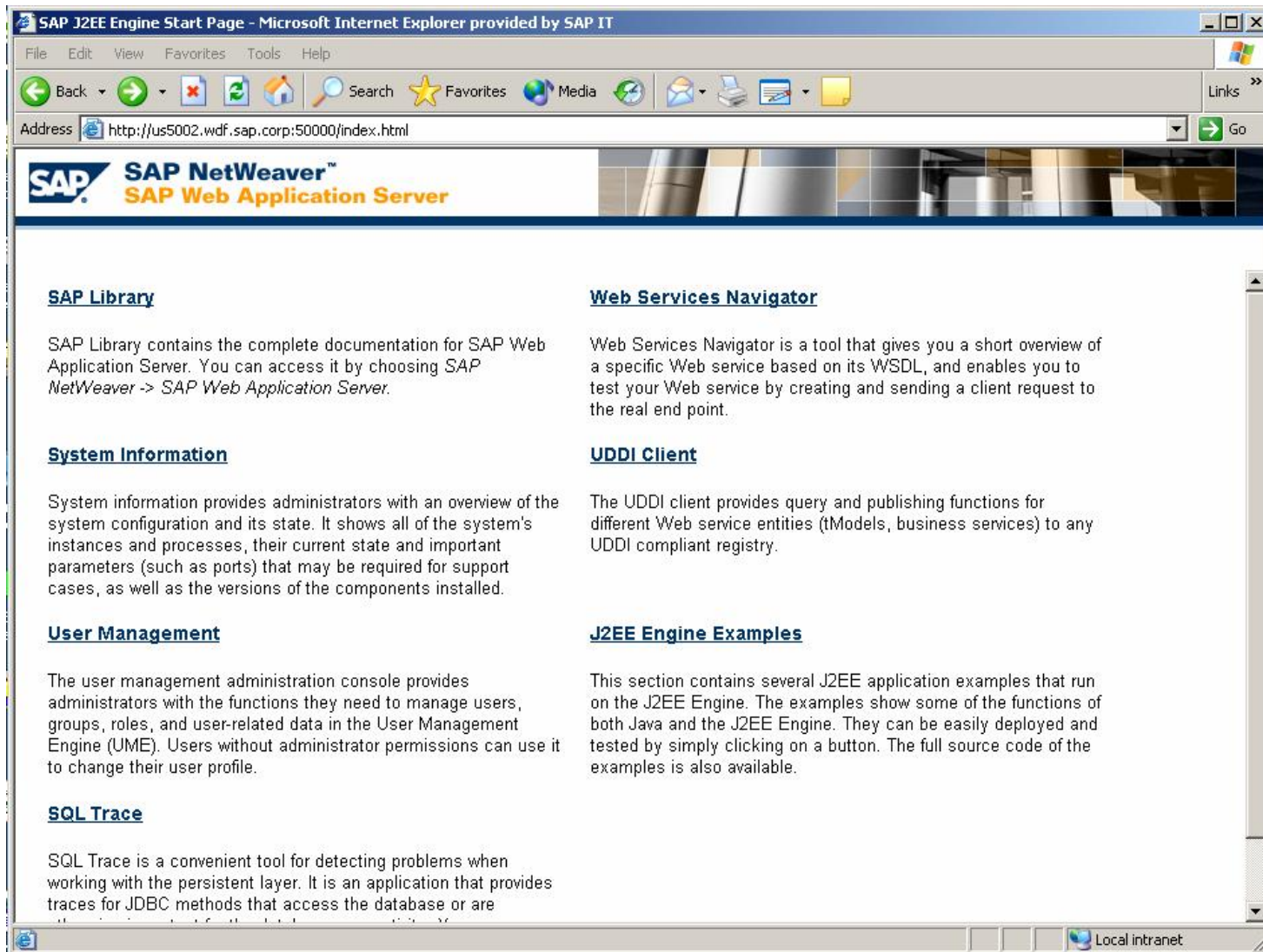
```
90 : synchronize instance properties
91 : advanced process list on/off
command -> █
```



Starting & Stopping

Checking J2EE, UME, Portal and KMC availability

Web AS, J2EE Engine, User Management



EP 6.0 SP7: Version Details

The screenshot shows the SAP Enterprise Portal 6.0 Support Desk interface. The browser window title is "Support Desk - SAP Enterprise Portal 6.0 - Microsoft Internet Explorer provided by SAP IT". The address bar shows the URL "http://us5010.wdf.sap.corp:50000/irj/portal". The page header includes "Welcome Administrator" and navigation links for "Help", "Personalize", and "Log Off". The main navigation menu includes "Content Administration", "User Administration", "System Administration", and "Home". The "Support Desk" section is active, displaying a table of version details.

Area	Version
J2EE Engine	6.40 PatchLevel 84589.313
Portal	6.4.0.0.200408131733

Below the table, there is a link "Back to Support Desk".



Introduction

Planning and Preparing the installation

Installing SAP NW '04 SP Stack 05

Post installation tasks

Troubleshooting installation problems

Questions and Answers

Restarting an Installation

When you restart SAPInst, you are first prompted to choose the product you want to install (unless the startup file of the installation contains only one executable service).

After that, SAPInst checks whether the installation directory, which it computed according to the product choice, is empty or not. If it is not empty, you have two options:

Run the installation with the files in that directory (that is continue an installation)

Restart from scratch

Canceling the Installation

If you cancel an installation, SAPinst lets you choose between the following options:

Stop the installation and leave the installation files in the state in which they are at the current point in time.

Reset all installation input files. (This means that all files in the installation directory are removed from the system. No log files are saved.)

Installation of J2EE 6.30 SPx:

n Error: You entered /usr/NW04_Java_CD/LABEL.ASC... other label required

Solution: Refer to correct label of your DVD / copy the DVD content with the corresponding label file.

n Error: (During Deploy Online) - Too many open Files

Solution: check settings of your kernel parameters

n Error: User “undefined” is not known. (SAPCCMSRAgent)

Solution: Press Retry

n Error: Another SDM is already running (Deploy Online)

Solution: Run /usr/sap/<SID>/<instance>/SDM/program/StopServer.sh
Than press “Retry” in SAPInst.

Installation of SAP EP 6.0 SPx, SAP KMC SPx:

n Error: Invalid connection details

Solution: Check availability of J2EE Engine if all is up and running



Introduction

Planning and Preparing the installation

Installing SAP NW '04 SP Stack 05

Post installation tasks

Troubleshooting installation problems

Questions and Answers



Installation of NW04 SP Stack 05 Web AS, EP, KMC

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