How to Install & Configure NetWeaver 7.0 (2004s) for your Manufacturing Landscape

Applies to
SAP NetWeaver 7.0 (2004s)
SAP Manufacturing Integration and Intelligence v12.0.x

Summary
The purpose of this document is to walk you through the steps required to install, configure, use and troubleshoot your NetWeaver 7.0 instance. It gives an overview of a typical corporate and manufacturing landscape and provides a step by step overview of various types of NetWeaver installations. It highlights key setup, configuration settings and utilities required to ensure success with your software while providing insight into various NetWeaver components. It is important to note that the MII product version 12.0.3 and newer requires NetWeaver 7.0 SP14 or newer and v12.0.2 requires SP10 or newer.

Author: Salvatore Castro, Van Vi
Company: SAP Labs, LLC
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Author Bio
Salvatore Castro of SAP Labs and has a Bachelors Degree in Computer Engineering and a Masters Degree in Computer Science both through the Rochester Institute of Technology. He is a member of the MII Product Management group under John Schaefer.

Van Vi is a principal NetWeaver consultant at SAP Americas in the West Region. He holds a Bachelor Degree in MIS from Chico State University and a MBA from University of Phoenix. He is an active member in the Process Integration (XI/PI) community at SAP America.
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NetWeaver Installation Overview

Getting Started

The installation of a NetWeaver system can be a daunting task for anyone not familiar with the SAP Software Model. This document has been written in order to address any questions or concerns faced by customers and partners on how to proceed through the installation process and correctly configure your SAP system landscape. One of the most common mistakes or pitfalls encountered during this procedure is to lose track of configuration and setup parameters set during the installation. The other is to have your installation fail numerous times due to an improperly configured system can be very frustrating. This document was targeted for a common system configuration of a Windows 32-bit OS running MS SQL Server. A different OS or DB will only vary your installation steps slightly and require the download of different files from Service Marketplace (SMP), http://service.sap.com. The overall installation process still remains the same and is a nice bonus to using the SAP NetWeaver platform.

The installation of a new or additional Netweaver instance to your system landscape, depending on your SAP software exposure, can bring up may questions on how to proceed and why. In order to address the two main issues mentioned earlier and other smaller ones; follow the installation procedure closely but with some discretion as to your own system environment. The installation and configuration of your landscape can begin at various points depending on how new or old of an SAP customer you are. These procedures assume you are brand new to the process and move on from there.

In order to properly install or upgrade any NetWeaver instance you need to first gather some important information about what does and does not already exist in your corporate landscape. Before you begin, know the answers to the following questions:

- What are the credentials to login to Service Marketplace?
- What operating system are we installing NetWeaver onto?
  - Who will install, configure, and maintain the machine and OS?
- What database platform are we installing NetWeaver onto?
  - Who will install, configure, and maintain the database?
- Who will request the SAP Software License?
  - What is your Partner, Customer or Installation number?
- How do we manage our SAP users?
- Do we have a Transport Directory configured and if so which machine is hosting it?
- Do we have a System Landscape Directory (SLD) configured and if so where and how is it setup (host, port, username, and password)?
- What is the purpose of the NetWeaver installation?
  - Is it for a small or large application?
  - Where will it be located and who will maintain it?
  - What type of instance will it be (Development, Quality Assurance, or Production)?
- Do I have Solution Manager Installed and if so where and what user can I use to access this system?
  - Who will register this system in Solution Manager?
  - Using Solution Manager, who will generate my Solution Manager Key for the installation?
Installation & Configuration Procedures

Software Overview
The definitions in this section are intended to give a broad and general overview of each piece of software and in no way intended to replace the SAP Help Documentation (http://help.sap.com).

**NetWeaver** – Intended to be a unified platform where all SAP software runs in order to abstract the software from any OS or DB dependency. All basic configuration and resource parameters are maintained here to provide cross-application consistency.

**Solution Manager** – This software is intended to manage your global software installations by giving you a common platform for tracking, tracing, and maintaining each installation.

**AS Java** – The Java based SAP Application Server stack necessary to run most of the web based application which SAP provides.

**AS ABAP** – The Application Server for Advance Business Application Programming which provides various business rules and functionality and can be interfaced to via the SAP GUI front-end software.

**System Landscape Directory (SLD)** – Used to centrally view each of your systems and the software currently deployed in each. See the help documentation for the recommended configuration and setup: http://help.sap.com/saphelp_nw70/helpdata/en/31/f0ff69551e4f259fddad799a229363e/content.htm

**Transport Directory** – Used to centrally store Java Support Stacks and Software Component Archives to be deployed to various systems across your network. The Common Transport Manager (CTM) is a piece of the Transport Management System (TMS) which is used for enterprise wide file management. See the help documentation for the recommended configuration and setup: http://help.sap.com/saphelp_nw70/helpdata/en/de/6b0d84f34d11d3a6510000e835363f/content.htm and http://help.sap.com/saphelp_nw70/helpdata/en/44/b4a0137acc11d1899e0000e829fbbd/content.htm

**Java Support Package Manager (JSPM)** – Utility software used to deploy support stacks and software components contained in the Transport directory.

**Central Instance (CI)** – The application services for the SAP System, including the enqueue and message services that are located on a single host machine. Typically, the central instance has multiple work processes for the dialog, update and background services.


**Dialog Instance (DI)** – SAP Web AS instance that is not the central instance (CI).
http://help.sap.com/saphelp_nw70/helpdata/en/2e/611724f410254ca12a3f396ec5ae85/content.htm

**Manufacturing Integration & Intelligence (MII)** – An SAP product which integrates shop floor systems at the plant level for synchronized reporting and operation while utilizing your existing IT infrastructure. For more information see: http://www.sap.com/usa/solutions/xapps/xmii/index.epx
Typical Landscape

A typical corporate landscape will include many different SAP Software systems, each with their own purpose. The SAP Solution Manager software must be installed in your corporate landscape in order to register your systems, download updates, and to generate Installation Keys. The Installation Key is not used in a Rapid Installation but will be required for any software updates and custom installations.

Typical Architecture

The position of the various SAP software pieces relative to each other can be somewhat confusing and if not properly done can lead to maintenance and configuration issues. Here’s a diagram of a typical implementation landscape including the following software pieces (Solution Manager, BI, PI, ECC on Java & ABAP stacks, TMS, LDAP, MII, UDS, Shop Floor, and Custom developed). The non-SAP software components each operate in their own “silos” and require multiple manual steps or costly development overhead to synchronize. This is where the PI and MII software components fit into your landscape, each playing a different role in synchronizing these systems with a supported, consistent and clear approach. The PI system will live at the Enterprise level and is used to deliver reliable messaging and large data transfer capabilities. For example when data is updated from the ECC to BI system for long term storage or when intermediate documents (IDocs) are generated which need to be delivered to external systems. The MII product typically exists at the Plant level and also at the Enterprise level to provide a distributed solution for reporting and synchronizing near real-time manufacturing information across your company. MII is designed to rapidly solve the inherent disconnect between your plant floor and enterprise systems and enabling your business to operate with a “Single Version of the Truth”.

Figure 1: Typical SAP Software implementation landscape, the LDAP and Shop Floor Data Sources are 3rd Party Software Components
Installation Overview

Before any of the installations, configure your machine to match the setup specified in the Before you Begin section of this document; if you do not do this the installation will most likely fail. In addition to this be sure to print out the table in Appendix A of this document to keep track of your installation configuration values for future reference.

If you are new to SAP and have not installed any of this software in your landscape there are a couple of things that you need to know about what, when, and why to install you should install it. In order to successfully install any SAP Software you need to first download and install the SAP Solution Manager. This software allows you to download any of the SAP Software Service and Support packs for your system landscape. It also helps you to track the various SAP Software Solutions you have implemented and on which systems they belong. Finally, it is required if you are performing an install of NetWeaver because it is used to generate the Solution Manager Key which is required by the install. There are many benefits to the Solution Manager Software package as it is designed to help organize your IT process so that all systems and the state of their software are readily available. It also allows you to manage what updates and when they are retrieved from Service Marketplace. For more information about Solution Manager please visit the following site: http://service.sap.com/solutionmanager

Here is a typical procedure for a Manufacturing environment:

It is important to note that you only need a single central/corporate instance of Solution Manager installed but you may need multiple NetWeaver platforms with various application server stack combinations. The required stacks are dependent on the use case for the platform but for the purpose of this document only the AS Java stack installation is covered as this is all that is required for the Manufacturing Integration & Intelligence (MII) product.

Once you are ready to install your NetWeaver instance you need to consider the various pros and cons of each install. You will also have to have a database installed and configured for use before you can start. There are a couple of benefits to the Rapid Installation which you may wish to perform, but like any quick install there are default configuration parameters which are already set for you which you cannot change. For example with the Rapid Install you get a lot of additional software components which you cannot unselect or change which translates to a couple of cons. The additional software leads to longer shutdown and startup times of the instance, a larger physical presence on the machine, and unnecessary services which can be confusing for maintenance and development. As a result, it is recommended to perform the AS Java install and configure your system for only necessary components. Once you have completed each of the installation steps, there are various features and administration tools available for central administration and monitoring. Be sure to use your installation down-time wisely and read up on these features. There are plenty of publicly available documents on the SAP Help (http://help.sap.com), SDN (http://sdn.sap.com), and Education (www.sap.com/services/education/index.epx) websites.
High-Level Installation Steps

This guide is broken up into multiple sections for quick reference the following groupings are designed to assist you by outlining the necessary steps for installing various software components (You may want to print this page in the guide). Each of these sections can be performed independent of the other depending on your installation scenario. It is important to note that you need Solution Manager installed and configured prior to installing anything else.

Solution Manager

The Solution Manager Installation will take a significant amount of time to complete so be sure to plan accordingly. Follow the sections in this order:

1. Before you Begin
2. Installing Solution Manager 4.0
3. Post NetWeaver Installation Configuration
4. Configuring Solution Manager
5. License Key for Netweaver 7.0 – License to register your Solution Manager software with SAP

AS Java

Once Solution Manager is properly installed and configured, you can install your Custom AS Java NetWeaver stack. Follow the sections in this order:

1. Before you Begin
2. Custom AS Java Installation
3. Post NetWeaver Installation Configuration
4. License Key for Netweaver 7.0 – License to register your NetWeaver instance with SAP
5. Deploying Software Delivery Units

Rapid Installation

The Rapid Installation may install software that will not be used taking up space on your system.

1. Before you Begin
2. Rapid Install for NetWeaver 7.0 SP11
3. Post NetWeaver Installation Configuration
4. License Key for Netweaver 7.0 – License to register your NetWeaver instance with SAP
5. Deploying Software Delivery Units

High-Availability

The High-Availability installation requires multiple hardware systems and Domain Administrator access

1. Before you begin – For each machine in the scenario
2. High-Availability Scenario Installation
3. Post NetWeaver Installation Configuration
4. License Key for Netweaver 7.0 – License to register your NetWeaver instance with SAP
5. Deploying Software Delivery Units
Before you Begin

You may want to print this page so that you can keep track of what was completed.

- Be sure to setup your system environment as outlined in these steps, failure to do so may result in your installation failing. Make sure you are logged in with an Administrator account for a local installation. If you are planning on installing this into a Domain then you need to be logged in as a Domain Administrator.

- Install the Java SDK, this document references JDK 1.4.2_16 (Turn off automatic updates)

- Add the JAVA_HOME value as a System Environment variable (Search internet for details)

  Default for this Java version is: C:\j2sdk1.4.2_16

- Add the SAPINST_JRE_HOME value as a System Environment variable

  Default for this Java version is: C:\j2sdk1.4.2_16\jre

- Determine if there is a database installed, document uses MSSQL 2000, and get the credentials for it. If no database exists then you will need to install and configure it yourself before you can continue.

  - Install MSSQL 2000 SP3 or newer – Set collation: SQL_Latin1_General_CP850_BIN

    o For MSSQL 2005 see note 799058 Setting Up Microsoft SQL Server 2005

  - Run instcoll.exe to update collation to SQL_Latin1_General_CP850_BIN2

    o For more information on the collation for MS SQL Server, see SAP Note 600027.

- If you are using MSSQL, be sure that mixed mode authentication is enabled in order for the installation to properly connect.

- Make sure you have at least 2GBs of memory and 5.5GBs of free space before starting the installation (This only applies to a Web AS and Java Stack install (Bare minimum), other installations may require more space).

  Be sure that the Page File Configuration for your system is set to automatically resize as necessary via the following steps. This will ensure that the Page File usage for your system is controlled by the OS and allocated as required by the installation.

    o Control Panel -> System -> Advanced tab
    o Press the Settings button in the Performance section
    o Select the Advanced tab
    o Press the Change button in the Virtual Memory section
    o Select the “System Managed Size” radial and Press Set

  Print out the NetWeaver Parameter List in Appendix A of this document, it will help you to keep all of your installation settings for future reference and knowledge transfer.

  You may also wish to install the SAP GUI on your host/client in order to access the ABAP stack setup and configuration transactions.

  Ask the SAP Basis Team about the SLD and Transport directories, such as the Server Name, Port, Username, and Password.
Installing Solution Manager 4.0

The SAP Solution Manager environment should be configured and managed centrally in business and is required to download service packs and generate installation license keys. You should still be able to download installation software via the SAP Service Marketplace directly, but this is subject to change. Be sure that you have already completed the steps in the Before you Begin section of this document. For additional information see the help documentation:

Acquiring the needed Software

Download Concerns

Download the latest version…at the time this document was written it was v4.0
These files are for a Microsoft Windows 32-bit system running Microsoft SQL Server
The “Sun Java Cryptographic Extension Policy File” will be used during the installation in this document, but both download URLs will be provided below and by the installation wizard.

Where to Go

Navigate to the SAP Service Marketplace Software Distribution Center
http://service.sap.com/swdc

Select Entry by Application Group

- SAP Software Distribution Center
- Download
  - Support Packages and Patches
  - Installations and Upgrades
    - Search for Installations and Upgrades
    - Entry by Application Group
      - My Company’s Application Components
      - RampUp for Installations and Upgrades
      - Installation and Upgrade Guides

Choose SAP NetWeaver (twice)

- SAP Application Components
- SAP Industry-specific Components
- SAP NetWeaver
- SAP Business One
- Adapters
- SAP Technology Components
- SAP xApp
- Country-specific Add-Ons
- Supplementary Components for Cross Industry Solutions
- SAP Best Practices

Then choose 2004s or v7.0 (Different labels for the same product)

SAP NETWEAVER

- SAP NETWEAVER 04
- SAP NETWEAVER 7.0 (2004s)
- SAP NETWEAVER CE 7.1
- SAP NETWEAVER MOBILE 7.1
- SAP NETWEAVER PI 7.1

Next choose Installation and Upgrades and select your OS and Database
This document uses Windows 32bit and MS SQL Server

**Installations and Upgrades**

- **Installation and Upgrade**
  - AIX
  - HP-UX
  - LINUX
  - OS/400
  - SOLARIS
  - Windows Server
    - DB2 UDB
    - MS SQL SERVER
    - CRACLE
    - SAP DB
  - z/OS
- **Language Version**
- **Content**
- **Plug-In Satellite System**
- **SAP Solution Manager Diagnostics**
- **BMC APPSIGHT BLACKBOX**
What to Download

Solution Manager Master Installation

- SOLMAH40 SR3 Installation Master Windows Server on IA32

Solution Manager Installation Export

- SAP Solution Manager 4.0 SR3 Installation Export CD 4/4
- SAP Solution Manager 4.0 SR3 Installation Export CD 1/4
- SAP Solution Manager 4.0 SR3 Installation Export CD 3/4
- SAP Solution Manager 4.0 SR3 Installation Export CD 2/4

Solution Manager Java Component

- SAP Solution M. 4.0 SR3 Java Comp. 1 of 5
- SAP Solution M. 4.0 SR3 Java Comp. 2 of 5
- SAP Solution M. 4.0 SR3 Java Comp. 3 of 5
- SAP Solution M. 4.0 SR3 Java Comp. 4 of 5
- SAP Solution M. 4.0 SR3 Java Comp. 5 of 5

NW 2004s Unicode Kernel 7.0 for Windows 32-bit

- NW 2004s SR2 UC-Kernel 7.00 Windows Server on IA32 32bit

To install Solution Manager configure the system the same way that you would for a NetWeaver Install (See the "Before you Begin" section). The Solution Manager product is larger than a base Java NetWeaver install and requires a minimum of 40 GBs of free space to complete successfully and takes approximately 20 hours on a dual core processor with 2GBs of memory. Please plan and prepare accordingly; you can waste a lot of time if your installation fails!
Installation Procedure

Uncompress the downloaded files into their respective directories except for the Java Cryptographic Extension file which needs to be left as a zip. In the following examples the necessary installation files have been placed on a separate drive. Also they have been manually organized into a logical file structure so that they are easy to find during the following installation procedures. It is highly recommended that you do the same.

Here's the breakdown that was used:

**Database Utilities** - F:\MSSQL (i.e. instcoll.exe, see note 600027 for details)

**Installation Master** - F:\SolMgr40SR3\InstallationMaster

**Solution Manager Export** - F:\SolMgr40SR3\InstallationExport

**Solution Manager Java** - F:\SolMgr40SR3\JavaComp

**NW UC Kernel** - F:\NW2004s\UCKernel

**Java Policy File** - F:\JavaCryptoExtension (Leave JCE file compressed)

These files consume approximately 10GB so be sure you have the necessary space to handle them; this is in addition to the 40GB you need to run the install.

Run the sapinst.exe file located in the directory below:

The NetWeaver Installation Wizard will appear; select a **Central System Installation** to follow along with this guide.
Welcome to SAP Installation Master

Before you start the installation, make sure that you have identified the required scenario as described in the Master Guide.

There are benefits to the different types that are specific to your use-case. Be sure to consider the Distributed and High-Availability systems based on your needs, see the High-Availability Configuration section of this document.

This guide will perform a Custom installation in order to cover all of the configuration parameters necessary to perform the Solution Manager installation.

There are benefits to the different types that are specific to your use-case. Be sure to consider the Distributed and High-Availability systems based on your needs, see the High-Availability Configuration section of this document.

This guide will perform a Custom installation in order to cover all of the configuration parameters necessary to perform the Solution Manager installation.

Default Settings

If you choose the typical settings, SAPinst runs mostly with automatic default settings. You only have to respond to a minimum number of prompts. However, you can still change any of the default settings on a parameter summary screen.

Point the installation to the Solution Manager Java Component

F:\SolMgr40SR3\JavaComp\LABEL.ASC
How to Install & Configure NetWeaver 7.0 (2004s) for your Manufacturing Landscape

Point the installation to the Java JDK directory
C:\j2sdk1.4.2_16

Java Development Kit
SAPInst has found a valid JDK directory. The installed JDK has version 1.4.2_16. Confirm that you want to use this JDK directory.

JDK Directory C:\j2sdk1.4.2_16
Point the installation to the Java Cryptographic Extension policy
F:\JavaCryptoExtension\jce_policy-1_4_2.zip (Notice this is the zip archive)
At this point in the install you may have to download this file from one of two locations depending on your VM
Sun: http://java.sun.com/j2se/1.4.2/download.html

IBM: https://www6.software.ibm.com/dl/jcesdk/jcesdk-p

You will have to sign in

Specify the SAP System ID (SID) and the Installation Target Driver Letter; Unicode should be selected because it allows multi-national compatibility. There is usually a company policy naming convention which should be strictly adhered to in order to prevent confusion.

**SAP System Parameters**

- **SAP System ID (SAPSID)**: F11
- **Installation Drive**: F:
- **Unicode System (recommended)**: 

**Additional Information**

The SAP System ID is an identifier for your SAP system. It must be unique throughout your system landscape. The system will be installed under <Installation Drive>\usr\sap\<SAPSID>\...
Specify the Master Password for the installation which is what the default password will be for all users created during the installation (Print the grid in Appendix A to keep track of your settings).

This document uses: abcd1234

It is highly recommended that you use something more secure than this!

**Master Password**
The password will be used for all accounts SAPinst creates and for the secure store key phrase. The length has to be 8-14 characters. Depending on your installation scenario there might be more restrictions.

Password for all users of this SAP system: ********
Confirm: ********

Your installations will probably a domain based installation, be sure you are logged in as a domain administrator, in order to be properly configured in your corporate landscape.

This document uses a **Local installation** for convenience but you may wish to select different domains depending on your use case (Typically will want Use domain of current user). For more information see the **Additional Information** section located in the Installation Wizard.

It states: "If you want the SAP system to run on a single machine, you can perform a Local installation. For high availability with MSCS (Microsoft Cluster Server) you must perform a domain installation. If you want the system to be distributed across more than one machine, we strongly recommend a domain installation. In this case, you have to be a domain administrator to create the operating system users during the installation, or all operating system users have to be created before the installation. For more information about Windows domain structures, see the Windows documentation."

**SAP System User Domain**

- Domain Model:  
  - Local installation
  - Use domain of current user
  - Use different domain

Windows Domain: 

Specify the default passwords for your Admin and Service user accounts

The default value is what you specified for your Master Password

**SAP System Administrator**

Account: Scenario4F11adm

Password of SAP System Administrator: ********
Confirm: ********

**SAP System Service User**

Account: Scenario4SAPServiceF11

Password of SAP System Service User: ********
Confirm: ********
Specify your destination database instance; this is automatically populated by the installation.

**Database Connection**

Local MS SQL Server Instances **SCENARI04**

Note that the *DBSID* is the same as the *SAPSID*; in this case the value is **F11**

Specify the location to the Solution Manager Export 1 Component

E:\SolMgr40SR3\InstallationExport\EXP1\LABEL.ASC

**Media Browser > Software Package Check**

Enter the location of the required software packages

**Software Package(s)**

<table>
<thead>
<tr>
<th>Media Name</th>
<th>Package Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Export SOLMAN40SR3</td>
<td>(1/2)</td>
</tr>
</tbody>
</table>

Specify the location to the Solution Manager Export 2 Component

E:\SolMgr40SR3\InstallationExport\EXP2\LABEL.ASC

**Media Browser > Software Package Check**

Enter the location of the required software packages

**Software Package(s)**

<table>
<thead>
<tr>
<th>Media Name</th>
<th>Package Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Export SOLMAN40SR3</td>
<td>(1/2)</td>
</tr>
</tbody>
</table>
Specify the default passwords for both of the MSSQL login user accounts.
The default value is what you specified for your Master Password, be sure to record the value.

**Database Schema Parameters**

<table>
<thead>
<tr>
<th>MSSQL Server login and user:</th>
</tr>
</thead>
<tbody>
<tr>
<td>F11</td>
</tr>
<tr>
<td>Password of ABAP Schema</td>
</tr>
<tr>
<td>Confirm</td>
</tr>
<tr>
<td>MSSQL Server login and user:</td>
</tr>
<tr>
<td>SAPF11DB</td>
</tr>
<tr>
<td>Password of Java Schema</td>
</tr>
<tr>
<td>Confirm</td>
</tr>
</tbody>
</table>

Define the size of your database instance files; you can manually adjust this in the MSSQL Enterprise Manager later. This is based on expected data hardware requirements and the use case for your installation. Be sure to look into this setting before proceeding in order to avoid problems down the road. It’s good to error on the high side here.

Specify the number, location, and size of the database data and log files, these sizes should be determined by your use case scenario.

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Path</th>
<th>Size [MB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>data</td>
<td>F11DATA1</td>
<td>F:\F11DATA1</td>
<td>1000</td>
</tr>
<tr>
<td>data</td>
<td>F11DATA2</td>
<td>F:\F11DATA2</td>
<td>1000</td>
</tr>
<tr>
<td>data</td>
<td>F11DATA3</td>
<td>F:\F11DATA3</td>
<td>1000</td>
</tr>
<tr>
<td>log</td>
<td>F11LOG1</td>
<td>F:\F11LOG1</td>
<td>500</td>
</tr>
</tbody>
</table>

Specify the location of the new temporary database for your MS SQL server

<table>
<thead>
<tr>
<th>File</th>
<th>Location</th>
<th>Size [MB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>tempdb</td>
<td>F:\TEMPDB\tempdb.mdf</td>
<td>300</td>
</tr>
<tr>
<td>templog</td>
<td>F:\TEMPDB\templog.ldf</td>
<td>50</td>
</tr>
</tbody>
</table>

Specify some basic installation parameters (Recommend to leave as defaults)

**General Load Parameters**

<table>
<thead>
<tr>
<th>SAP Code Page</th>
<th>4183</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Parallel Jobs</td>
<td>3</td>
</tr>
</tbody>
</table>

Specify the default password for the Secure Store

The default value is what you specified for your Master Password

**Secure Store Settings**

<table>
<thead>
<tr>
<th>Key Phrase (8-30 characters)</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>
Specify the instance number for the central and SCS instances  
(Recommend to keep the default values)

**Central Instance Parameters**

- Central Instance Number: 00

**SCS Instance Parameters**

- SCS Instance Number: 01

Specify the CSC and SCS communication parameters, the Transport Directory may exist in your landscape already so be sure to check with your SAP BASIS team for details.  
(Recommend to keep the default values)

**Central Instance Parameters**

- ABAP Messaging Service Port: 3809
- Internal ABAP Messaging Service Port: 3903
- Host with Transport Directory: Scenario04

**SCS Instance Parameters**

- Internal SCS Messaging Service Port: 3901

Specify the J2EE engine usernames  
(Recommend to keep the default values)

For additional information see:

ABAP User Management Engine (ABAP UME)  
SAP Note 718383

**J2EE Engine Connection**

- Administrator User: J2EE_ADMIN
- Guest User: J2EE_GUEST
- Communication User: SAP_JSF
Specify the passwords for the previously specified users

The default value what you specified for your Master Password

SDM Connection corresponds with the Communication User

**J2EE Engine Connection**

<table>
<thead>
<tr>
<th>Password of Administrator User</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
<tr>
<td>Password of Communication User</td>
<td>**********</td>
</tr>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>

**SDM Connection**

<table>
<thead>
<tr>
<th>Password for SDM</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>

Specify the location of the NetWeaver Kernel v7.0

E:\NW2004s\UCKernel\NW_2004s_SR2_Kernel_WINDOWS__LNX_X86\LABEL.ASC

Specify which archives need to be unpacked and to which destination

(Recommend to leave the defaults here)

The **Downloaded To** is to specify a newer archive than what you may have if you are installing from a DVD, in this scenario this is not the case so they are empty

```
<table>
<thead>
<tr>
<th>Unpack</th>
<th>Archive</th>
<th>Codepage</th>
<th>Destination</th>
<th>Downloaded To</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DBINDEXE\SAPEXE.SAR</td>
<td>Unicode</td>
<td>F:\user\sap\F11\SYSEX\exeluc\NTI386</td>
<td>Browse</td>
</tr>
<tr>
<td></td>
<td>MSINDEXE\SAPEXE.SAR</td>
<td>Unicode</td>
<td>F:\user\sap\F11\SYSEX\exeluc\NTI386</td>
<td>Browse</td>
</tr>
<tr>
<td></td>
<td>DBINDEXE\GSEXE.SAR</td>
<td>Unicode</td>
<td>F:\user\sap\F11\SYSEX\exeluc\NTI386</td>
<td>Browse</td>
</tr>
<tr>
<td></td>
<td>DBINDEXE\GSHelper.SAR</td>
<td>Unicode</td>
<td>F:\user\sap\F11\SYSEX\exeluc\NTI386</td>
<td>Browse</td>
</tr>
<tr>
<td></td>
<td>SAPCRYPTO.SAR</td>
<td>Unicode</td>
<td>F:\user\sap\F11\SYSEX\exeluc\NTI386</td>
<td>Browse</td>
</tr>
</tbody>
</table>
```
Specify if you would like to install the NetWeaver Development Infrastructure (NWDI) which provides central storage, versioning, and build services.

See the help for more information:
http://help.sap.com/saphelp_nw70/helpdata/en/03/f6bc3d42f46c33e10000000a11405a/content.htm

### Integration into NWDI Landscape

Prepare SAP system for NWDI integration [ ]

Specify which System Landscape Directory (SLD) to use. The SLD is required so if you have one, point to that system. If not, then you must configure a local SLD, this takes a long time!

#### Registration in System Landscape Directory

<table>
<thead>
<tr>
<th>SLD Destination</th>
<th>Register in existing central SLD (default)</th>
<th>Configure a local SLD</th>
</tr>
</thead>
</table>

To configure an SLD, the default value what you specified for your Master Password. The Object server name and CIM namespace are used to identify the SAP SLD. The Object Server Name was set to the local machine name; SCENARIO04.

### Object Server

To guarantees global separation of all objects in the system (the enclosing slashes) for the Object Server Name. SAPinst will initialize the object server.

Object Server Name: SCENARIO04

### Self-Registration in Local SLD

The SLD Data Supplier User is used to perform send

<table>
<thead>
<tr>
<th>SLD Data Supplier User</th>
<th>SLDDGUSER</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Password of SLD Data Supplier User</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>

### Communication to Local SLD

The SLD ABAP API User of your system communicates

<table>
<thead>
<tr>
<th>SLD ABAP API User</th>
<th>SDLAPIUSER</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Password of SLD ABAP API User</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>
Specify the passwords for the ADS users (created in the J2EE engine)

The default value what you specified for your Master Password

**ADS Administrator**

<table>
<thead>
<tr>
<th>Password of 'ADSUSER'</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>

**ADS Communication User**

<table>
<thead>
<tr>
<th>Password of 'ADS_AGENT'</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>

Review your configuration to make sure you specified everything correctly and press the “Start” button; this will take approx. 20 hours on a Dual Core machine with 2GB of RAM.

If the J2EE Process -> server0 process fails to start then right-click on it and open up the “Developer Trace”. Scroll to the bottom of the window and look at the exception message. Typically it will tell you to reference this note, 943602, for more details.
Configuring Solution Manager

Acquiring a Solution Manager Account (S Number)

Navigate to the SAP Service Marketplace (http://service.sap.com)
Select the “New User? Register here!” link at the top right of the page.

QUESTIONS REGARDING LOGIN?
- Forgot password/user ID?
- New User? Register here!
- Get assistance in the FAQ section
- Benefit from Single Sign-On

Fill out the form accordingly (Internal employees are considered Customers)

*The Customer or Installation Number can be determined with your company’s resident SAP team.*
The Installation number can be found in the Visual Administrator by:

In the Visual Administrator navigate to:

<SID> -> Server -> Services -> Licensing Adapter

Make sure the Runtime and General tabs are selected as shown in the image below:
Linking Solution Manager to Service Marketplace

This only needs to be done if you are a Customer or Partner, if you are an SAP Internal Employee then you can apply for permissions to download these files here:

https://uap.wdf.sap.corp/AE/index.jsp

First configure the Maintenance Optimizer as per this document:

https://websmp204.sap-ag.de/~sapidb/011000358700000235502007E

Found on:
SMP -> SAP Solution Manager -> Functions in Detail -> Support Area -> Maintenance Optimizer, then on the page at the bottom: Step by Step Configuration of Maintenance Optimizer SP Stack 09

OR

https://websmp204.sap-ag.de/~sapidb/011000358700006355032006E/SMP_MOPS_EN_061214.htm

Once you've registered for your S# account you will receive it an automated email with the registration details.

Next login to the Solution Manager system via SAP GUI and go to transaction DSWP, you may need to request permission for this or pass along these steps for someone else to complete.

Select Change Management -> Support Package Stacks at the top

Select Maintenance Optimizer (MO) at the bottom.

Configure the MO to connect to your download basket on Service Marketplace (SMP) and begin the download process.
Generating Solution Manager Keys

The following section is based on Solution Manager Version 4.

To generate a key perform the following steps:

Login to the Solution Manager environment via SAP GUI.

**SAP**

<table>
<thead>
<tr>
<th>New password</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client: 001</td>
</tr>
<tr>
<td>User: SAPXMII</td>
</tr>
<tr>
<td>Password: ***********</td>
</tr>
<tr>
<td>Language: EN</td>
</tr>
</tbody>
</table>

Navigate to transaction code **SMSY**

- SAP menu
  - Office
  - Cross-Application Components
  - Collaboration Projects
  - Accounting
  - Information Systems
  - Tools
  - ABAF Workbench
  - SAP Solution Manager
    - SOLAR_PROJECT_ADMIN - Project Administration
    - SOLMAN_PROJECT - Project Overview
    - AI_SPS - Project Setup: Quick Start
    - RMMAIN - Roadmap
    - SOLAR01 - Business Blueprint
    - SOLAR02 - Configuration
    - SOLAR_LEARNING_MAP - SOLAR_LEARNING_MAP
    - STWB_2 - Test Plan Management
    - SOLAR_EVAL - Project Analysis
    - SOLUTION_MANAGER - Solution Operation
    - SMSY - System Landscape
Add a new System

Specify the SID, Software, version, and Installation Number and then select Save.

Select all of the components as Relevant and Save.

Select the Other Object button at the top.
Select System and enter the SID, should already be there

Press the “Generate Installation/Upgrade Key” button.

Enter the SID, CSC ID, and Server name and Press the “Generate Key” button

Enter this key into your installation Solution Manager Key Field which will appear at the end of the installation configuration.
Custom AS Java Installation

This is the installation necessary to run the MII v12.0.x application. It is important to note that MII v12.0.2 will work with SP10 and newer and that MII v12.0.3 requires SP14 and newer. In addition to this Solution Manager must be installed in your corporate landscape to successfully complete the installation.

Acquiring the needed Software

Download Concerns

Download the latest version...at the time this was v7.0 SP14

These files are for a Microsoft Windows 32-bit system running Microsoft SQL Server

Also you will have to download the Java Security Policy file from Sun or IBM depending on your system. This document shows the installation of the Sun Java Policy File but both URLs are given by the installation wizard.

Where to Go

Navigate to the SAP Service Marketplace Software Distribution Center

http://service.sap.com/swdc

Select Entry by Application Group

- SAP Software Distribution Center
  - Download
    - Support Packages and Patches
  - Installations and Upgrades
    - Search for Installations and Upgrades
      - Entry by Application Group
        - My Company’s Application Components
        - RampUp For Installations and Upgrades
        - Installation and Upgrade Guides

An choose SAP NetWeaver (twice)

- SAP Application Components
- SAP Industry-specific Components
- SAP NetWeaver
- SAP Business One
- Adapters
- SAP Technology Components
- SAP xApps
- Country-specific Add-Ons
- Supplementary Components for Cross Industry Solutions
- SAP Best Practices

Then choose 2004s or v7.0 (Same product, different names)

SAP NETWEAVER
Next choose Installation and Upgrade and select your OS and Database
This document uses Windows 32 bit and MS SQL Server

**Installations and Upgrades**

- Installation and Upgrade
  - AIX
  - HP-UX
  - LINUX
  - OS/400
  - SOLARIS
  - Windows Server
    - DB2 UDB
    - MS SQL Server
    - ORACLE
    - SAP DB
  - z/OS
  - Rapid Installer
  - BI Content for SAP NetWeaver
  - SAP BI Accelerator

**What to Download**

NW Installation Master

| NW 2004s SR2 Installation Master Multi-SID MSCS Installation | 51032642 |

NW 2004s Unicode Kernel 7.0 for Windows 32-bit

| NW 2004s SR2 Unicode Kernel 7.00 Windows Server on IA32 32bit | 51033032_11 |

NW 2004s SR2 Java based Software Component

| NW 2004s SR2 Java based SW Comp. 1 of 5 | 51032257_1 |
| NW 2004s SR2 Java based SW Comp. 2 of 5 | 51032257_2 |
| NW 2004s SR2 Java based SW Comp. 3 of 5 | 51032257_3 |
| NW 2004s SR2 Java based SW Comp. 4 of 5 | 51032257_4 |
| NW 2004s SR2 Java based SW Comp. 5 of 5 | 51032257_5 |

To install the NetWeaver Java Stack configure the system the same as in the “Before you Begin” section.
Installation Procedure

Uncompress the downloaded files into their respective directories except for the Java Cryptographic Extension file. In the following examples the necessary installation files have been placed on a separate drive. Also they have been manually organized into a logical file structure so that they are easy to find during the following installation procedures. It is highly recommended that you do the same.

Here’s the breakdown that was used:

**Database Utilities** - F:\MSSQL (i.e. instcoll.exe)

**Installation Master** - F:\NW2004s\InstallationMaster

**NetWeaver Java** - F:\NW2004s\JavaComp

**NW UC Kernel** - F:\NW2004s\UCKernel

**Java Policy File** - F:\JavaCryptoExtension (Leave as a zip archive)

These files consume approximately 10GB so be sure you have the necessary space to handle them; this is in addition to the 3GB you need to run the install.

Run the sapinst.exe file located in the directory below:

```
F:\NW2004s\MasterInstall\51032260_11\BS_2005_SR2_SAP_Installation_Master\IM_WINDOWS_I386
```
From the initial master installation screen choose a Central System Installation

**Welcome to SAP Installation Master**

Before you start the installation, make sure that you have identified the required scenario as described in the Master Guide.

Select the service that you want to install:

- **SAP Systems**
  - SAP CRM 6.0 Support Release 2
  - SAP ERP 2005 Support Release 2
  - SAP SCM 5.0 Support Release 2
  - SAP SRM 5.0 Support Release 2
  - SAP NetWeaver 2004s Support Release 2

- **Central System**
  - IBM DB2 for Linux, UNIX, and Windows
  - IBM DB2 for z/OS
  - MariaDB
  - MS SQL Server

- **Optional Standalone Units**
  - Central System
  - Distributed System
  - High-Availability System
  - Oracle

- **Additional Software Life-Cycle Tasks**

**Description**

Installs on one host (central system) a SAP system including usage types/software units. At least one of the basic usage types AS ABAP or AS Java is required.

- Central Services Instance (CSN) - with usage types based on AS Java
- Database Instance
- Central instance

**Software Units / Usage Types**

Software units or usage types can be run together with others in one system or each software unit/usage type can run separately on different systems. Software units and usage types are realized by installing (and configuring) a collection of software components.

The usage types Application Server ABAP (AS ABAP) and Application Server (AS Java) are also used as a foundation for other units.

**Central Services Instance**

The central services instance is the main point of

**Default Settings**

If you choose the typical setting, SAPInst runs mostly with automatic default settings. You only have to respond to a minimum number of prompts. However, you can still change any of the default settings on a parameter summary screen.

Parameter Mode:
- Typical
- Custom

All that is necessary for MII is the AS Java; any other components will add installation size and hardware requirements. However these other components may be necessary for your business so be sure to understand what each of them is and how each affects your NetWeaver installation.

**NetWeaver Usage Types**

Software units are installation units. Usage types of SAP NetWeaver are software units to be installed and configured. Software units or usage types can be run together with others in one system, they can run separately on different systems. The usage types Application Server ABAP (AS ABAP) and Application Server (AS Java) are also used as a foundation for other units.

<table>
<thead>
<tr>
<th>Install</th>
<th>Software Unit</th>
<th>Description</th>
<th>Depends On</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AS ABAP</td>
<td>NetWeaver Application Server ABAP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AS Java</td>
<td>NetWeaver Application Server Java</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI Java</td>
<td>NetWeaver BI Java</td>
<td>AS Java, EP, EP Core</td>
</tr>
<tr>
<td></td>
<td>DI</td>
<td>NetWeaver Development Infrastructure</td>
<td>AS Java</td>
</tr>
<tr>
<td></td>
<td>EP Core</td>
<td>NetWeaver Enterprise Portal Core Components</td>
<td>AS Java</td>
</tr>
<tr>
<td></td>
<td>EP</td>
<td>NetWeaver Enterprise Portal</td>
<td>EP Core, AS Java</td>
</tr>
<tr>
<td></td>
<td>MI</td>
<td>NetWeaver Mobile Infrastructure</td>
<td>AS ABAP, AS Java</td>
</tr>
<tr>
<td></td>
<td>PI</td>
<td>NetWeaver Process Integration</td>
<td>AS ABAP, AS Java</td>
</tr>
</tbody>
</table>

Choose the NetWeaver Java Software Component you have downloaded from SMP.
Media Browser > Software Package(s)

Enter the location of the required software package. The Software Package(s) view appears. Expand the tree in the Media Browser to navigate to the required software package.

Software Package(s)

| Media Name | Java Component NW2004sSR2 |

Specify the install location of your Java Development Kit

Java Development Kit

SAPInst has found a valid JDK directory. The installed JDK has version 1.4.2_16. Confirm that you want to use this JDK directory.

JDK Directory: C:\j2sdk1.4.2_16

Point the installation to the Java Cryptographic Extension policy

F:\JavaCryptoExtension\jce_policy-1_4_2.zip

At this point in the install you may have to download this file from one of two locations depending on your VM

Sun: http://java.sun.com/j2se/1.4.2/download.html

IBM: https://www6.software.ibm.com/dl/jcesdk/jcesdk-p

You will have to sign in
How to Install & Configure NetWeaver 7.0 (2004s) for your Manufacturing Landscape

The SAP System ID (SID) is very important in managing your various systems as they uniquely identify each installation. There is usually a company policy naming convention which should be strictly adhered to in order to prevent confusion.

Enter the system ID and installation drive

SAP System Parameters

SAP System ID (SAPSID) **F13**

Installation Drive **C:**

Additional Information

The SAP System ID is an identifier for your SAP system. It must be unique throughout your system landscape. The system will be installed under INSTALLATION Drive:\usr\sap\SAPSID\...
Specify the Master Password for the installation which is what the default password will be for all users created during the installation (See Appendix A).

This document uses: abcd1234

It is highly recommended that you use something more secure than this!

Master Password
The password will be used for all accounts SAPinst creates and for the secure store key phrase. The length has to be 8-14 characters. Depending on your installation scenario there might be more restrictions.

Password for all users of the SAP system

Confirm

Additional Information
You can choose a different value for each Password by choosing to edit the regarding parameter section in summary screen. If you set already some password to a different value and change the Master Password in this dialog afterwards, the individually set passwords are NOT overwritten with the new master password.

Back Next

Your installations will probably a domain based installation, be sure you are logged in as a domain administrator, in order to be properly configured in your corporate landscape.

This document uses a Local installation for convenience but you may wish to select different domains depending on your use case (Typically will want Use domain of current user). For more information see the Additional Information section located in the Installation Wizard.

It states: “If you want the SAP system to run on a single machine, you can perform a Local installation. For high availability with MSCS (Microsoft Cluster Server) you must perform a domain installation. If you want the system to be distributed across more than one machine, we strongly recommend a domain installation. In this case, you have to be a domain administrator to create the operating system users during the installation, or all operating system users have to be created before the installation. For more information about Windows domain structures, see the Windows documentation.”

SAP System User Domain

<table>
<thead>
<tr>
<th>Domain Model</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Local installation</td>
<td>Use domain of current user</td>
</tr>
</tbody>
</table>

Windows Domain

Additional Information
If you want the SAP system to run on a single machine, you can perform a Local installation.
For high availability with MSCS you must perform a domain installation.
If you want the system to be distributed across more than one machine, we strongly recommend a domain installation. In this case, you have to be a domain administrator to create the operating system users during the installation, or all operating system users have to be created before the installation.
For more information about Windows domain structures, see the Windows documentation.

Back Next

The creation of these users is based on the account you are currently logged in as so be sure you have proper permissions.
Enter the passwords of the operating system users

**SAP System Administrator**
Account: Scenario2f13adm
Password of SAP System Administrator: ********
Confirm: ********

**SAP System Service User**
Account: Scenario2fSAPServiceF13
Password of SAP System Service User: ********
Confirm: ********

Choose the database you wish to install to, for MSSQL be sure that mixed mode authentication is enabled in order to properly authenticate with the instance.

**Database Connection**
Local MS SQL Server Instances: SCNART02

**Additional Information**
Make sure that your database is running. SAP uses Windows authentication to connect to the database instance. You can only use a local instance of MS SQL Server for this installation type.

**Important Information**
The system to be installed will be configured to use a new database with DBSID equal to SAPSID.

Define the passwords for the DB system accounts.

**Database Schema Parameters**
MS SQL Server login and user: SAPF13DB
Password of Java Schema: ********
Confirm: ********

Define the size of your database instance files; you can manually adjust this in the MSSQL Enterprise Manager later. This is based on expected data hardware requirements and the use case for your installation. Be sure to look into this setting before proceeding in order to avoid problems down the road. It’s better to error on the high side here.
How to Install & Configure NetWeaver 7.0 (2004s) for your Manufacturing Landscape

Specify the location of the temporary DB files, it is recommended to leave these settings as it to avoid any future complications.

Important Information
Increase the size of the tempdir system database on the MS SQL Server instance where you want to install this SAP component to at least 300 MB. Change the configuration of tempdir if you are not satisfied with the configuration suggested by SAPinst. However, we recommend that you accept this configuration.

Current Tempdir Configuration

<table>
<thead>
<tr>
<th>File</th>
<th>Location</th>
<th>Size [MB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>tempdev</td>
<td>C:\Program Files\Microsoft SQL Server\MSSQL\data\tempdb.mdf</td>
<td>8</td>
</tr>
<tr>
<td>templog</td>
<td>C:\Program Files\Microsoft SQL Server\MSSQL\data\templog.ndf</td>
<td>6</td>
</tr>
</tbody>
</table>

New Tempdir Configuration

<table>
<thead>
<tr>
<th>File</th>
<th>Location</th>
<th>Size [MB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>tempdev</td>
<td>C:TEMPDB\tempdb.mdf</td>
<td>300</td>
</tr>
<tr>
<td>templog</td>
<td>C:TEMPDB\templog.ndf</td>
<td>50</td>
</tr>
</tbody>
</table>

Specify the Secure Store password; the secure store manages your system Certificates. It is important to note that your internal security requirements may require this password to be more complex than what was used for your Master Password.

Secure Store Settings

Key Phrase (8-30 characters) ******

Confirm ******

Additional Information

The J2EE engine uses this Key Phrase to generate the key that is used to encrypt the data. We recommend that you use a long phrase that includes lower and upper case letters, and special characters.
Enter the Central Instance information; you may have multiple instances installed on the same hardware. If you do they will appear in the list.

### Detected SAP System Instances

<table>
<thead>
<tr>
<th>SAP System ID (SAPSID)</th>
<th>Instance Number</th>
<th>Instance Name</th>
</tr>
</thead>
</table>

### Central Instance Parameters

- **Central Instance Number**: 00

### SCS Instance Parameters

- **SCS Instance Number**: 01

### Additional Information

The Instance Number for the central and SCS instances serves as a technical identifier for controlling internal processes (such as assigned memory). This number must be unique for this installation host.

The SAP Transport Directory should be a centralized location in your environment, depending on use case. For more information on this see the SAP Help Documentation

http://help.sap.com/saphelp_nw70/helpdata/en/de/6b0da5f34d11d3a6510000e835363f/content.htm

If the remote directory does not exist on the local system make sure that your <SID>adm user has read/write permissions across the network.

<drive>:\usr\sap\trans or \<machine>\sapmnt\trans

### Central Instance Parameters

<table>
<thead>
<tr>
<th>Host with Transport Directory</th>
</tr>
</thead>
</table>

### SCS Instance Parameters

| Internal SCS Messaging Service Port | 3001 |

### Additional Information

The instance-specific Internal Messaging Service Port for internal communication is required as a unique communication channel. The transport directory will be created at <transcode>:\sapmnt\trans.

Since this is only an AS Java installation, select the Java UME Configuration.

### User Management Engine (UME)

- **UME Configuration**: Use Java database (default)
- **Use ABAP**

### Additional Information

Further Info: http://help.sap.com or SAP Note 773329

- With the option Use Java database, administrators can manage users and groups with UME Web admin tool and the Visual Administrator only. For LDAP, use this configuration for installation and change the configuration to LDAP after installation.
- With the option Use ABAP, administrators can manage users with the transaction SU01 and, depending on the permissions of the communication user, also with the UME Web admin tool and the Visual Administrator.
Define the J2EE engine and Software Deployment Manager (SDM) username and password values, which should correlate with corporate standards and defaults to the Master Password specified earlier.

**J2EE Engine Connection**

<table>
<thead>
<tr>
<th>Administrator User</th>
<th>J2EE_ADMIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password of Administrator User</td>
<td>**********</td>
</tr>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
<tr>
<td>Guest User</td>
<td>J2EE_GUEST</td>
</tr>
</tbody>
</table>

**SDM Connection**

<table>
<thead>
<tr>
<th>Password for SDM</th>
<th>**********</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>**********</td>
</tr>
</tbody>
</table>

**Additional Information**

The Administrator User has full control of the J2EE engine, whereas the Guest User account has read access only.

Point the installation to the Unicode Kernel, in this case it is:

F:\NW2004s\UCKernel\NW_2004s_SR2_Kernel_Windows_LNX_X86\KU_Windows_I386\LABEL.ASC

**Media Browser > So**

Enter the location of the required software package(s).

**Software Package(s)**

<table>
<thead>
<tr>
<th>Media Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC Kernel NW2004sSR2</td>
</tr>
</tbody>
</table>

- JavaCryptoExtension
- MSSQL
- NW2004s
- JavaWComponent
- MasterInstall
- UCKernel
- NW_2004s_SR2_Kernel_Windows_LNX_X86
  - KU_Windows_I3
    - CDLABEL.ASC
    - CDLABEL.EBC
    - COPY_TM.HTM
    - COPY_TM.TXT
    - CRFILE.DAT
    - LABEL.ASC
    - LABEL.EBC
    - LABELIDX.ASC
    - SHAFILE.DAT
Since the archives are current from Service Marketplace (SMP) and located on a hard drive there’s no need to specify an unpacking directory.

**SAP System Archives**
SAP has determined that the selected archives have to be unpacked. Choose Next to get the archives unpacked automatically from DVD to SAP Global Host.

<table>
<thead>
<tr>
<th>Unpack</th>
<th>Archive</th>
<th>Codepage</th>
<th>Destination</th>
<th>Downloaded To</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>DUNCEPISAPRX.SAR</td>
<td>Unicode</td>
<td>C:\vsr\sap\F13\SYS\ext\etc\NT136</td>
<td>Browse...</td>
</tr>
<tr>
<td>✔️</td>
<td>DUNCEPISAPRXHELPER.SAR</td>
<td>Unicode</td>
<td>C:\vsr\sap\F13\SYS\ext\etc\NT136</td>
<td>Browse...</td>
</tr>
</tbody>
</table>

**Additional Information**
If you have downloaded newer versions of these archives from SAP Service Marketplace, enter their locations in column Downloaded To.

Depending on your environment you may wish to configure the NetWeaver Development Infrastructure to aid in collaborating with custom Java code written for your environment. This is not used by MII and as a result not configured.

**Integration into NWIDI Landscape**
Prepare SAP system for NWIDI integration  

**Additional Information**
The SAP NetWeaver Development Infrastructure (NWIDI) has a set of services that provide central storage and distributed versioning of Java source code, plus centralized build services and a product exchange management process that control the flow of software through the landscape. To integrate your SAP system into the development landscape, NWIDI requires all installed software components to be available in the file system. If you choose the option above all installed software component archives (SCAs) are copied to the transport directory for later use in the NWIDI.

The System Landscape Directory (SLD) system should already exist in your corporate environment. If it does not, then it is recommended to configure your own local SLD only if you are planning on having multiple systems on your network. If not, and this is an isolated install, the SLD destination is not required. This document covers the SLD configuration in the “Installing Solution Manager v4.0” section, where this section covers connecting to the previously defined SLD.

**Important Information**
The SAP System Landscape Directory (SLD) is designed for registering the systems (along with the installed software) of your whole system landscape. For the software units/usage types you selected, an SLD configuration is not required.

We strongly recommend to choose Register in existing central SLD if you want the SLD to be configured. The usual case is to configure one SLD for your complete landscape. Note that Register a local SLD may take up to several hours.

**Registration in System Landscape Directory**
The SLD also can be configured manually later on if desired.

- **SLD Destination**  
  - Register in existing central SLD (default)
  - Configure a local SLD
  - No SLD destination
Configure the SLD connection to the remotely located SLD. The username, password, HTTP server and port can be found via transaction code **SLDAPICUST**, see the “Frequently Asked Questions” section for more information. In this case the SLDDSUSER was added in an additional row since the default user was SLDAPIUSER which is ok to use.

From the SAP GUI Transaction SLDAPICUST:

<table>
<thead>
<tr>
<th>Alias Name</th>
<th>Prim.</th>
<th>Host Name</th>
<th>Port</th>
<th>User</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP_CONFIG</td>
<td>✓</td>
<td>Scenario4</td>
<td>50000</td>
<td>SLDAPIUSER</td>
<td></td>
</tr>
</tbody>
</table>

The values for these fields may require you to ask your BASIS team for details and authorization, please note that in the image above the SLDAPIUSER is specified while in the image below the SLDDSUSER is specified, **in your installation these fields have to match**.

**Self-Registration in Central SLD**

- **SLD HTTP Host**: `scenario4.lighthammer.com`
- **SLD HTTP Port**: `50000`
- **SLD Data Supplier User**: `SLDDSUSER`
- **Password of SLD Data Supplier User**: `********`

**Additional Information**

The SLD Data Supplier User is used to perform send the self-registration data of your system to the SLD.

* If you have to ask about the Lighthammer domain

Configure the Adobe Document Services (ADS) user account.

**ADS Administrator**

- **Password of ‘ADSUSER’**: `********`
- **Confirm**: `********`

**Additional Information**

The ADS administrator user `ADSUSER` will be created in your J2EE engine with the given password.
Review your installation parameters and then “Start” the installation procedure.

The SAP Solution Manager application is required in order to generate valid software license keys in your landscape. See the “Generating Solution Manager Keys” section of this document for instructions on how to generate a valid key.

This takes approximately 2 hours and requires approximately 3GB depending on your hardware and installation configuration settings.

If the J2EE Process -> server0 process fails to start then right-click on it and open up the “Developer Trace”. Scroll to the bottom of the window and look at the exception message. Typically it will tell you to reference this note, 943602, for more details.
Rapid Install for NW 7.0 (2004s) SP11

Acquiring the needed Software

Download Concerns
Download the latest version…at the time this was 7.0 SP11
These files are for a Microsoft Windows 32-bit system running Microsoft SQL Server
Also you will have to download the Java Security Policy file from Sun or IBM depending on your system. This document shows the installation of the Sun Java Policy File but the URLs are given during the installation wizard.
These files should also be downloadable via Solution Manager, which is currently the recommended approach.

Where to Go
Navigate to the SAP Service Marketplace Software Distribution Center
http://service.sap.com/swdc

Select Entry by Application Group

An choose SAP NetWeaver (twice)

- SAP Application Components
- SAP Industry-specific Components
- SAP Business One
- Adapters
- SAP Technology Components
- SAP xApps
- Country-specific Add-Ons
- Supplementary Components for Cross Industry Solutions
- SAP Best Practices
Then choose 2004s or v7.0

**SAP NETWEAVER**

- SAP NETWEAVER 04
- SAP NETWEAVER 7.0 (2004s)
- SAP NETWEAVER CE 7.1
- SAP NETWEAVER MOBILE 7.1
- SAP NETWEAVER PI 7.1

Next choose Rapid Installer and select your OS and Database

This document uses Windows and MS SQL Server

**Installations and Upgrades**

Installations and Upgrades → SAP NetWeaver → SAP NETWEAVER → SAP NETWEAVER 7.0 (2004s)

**SAP NETWEAVER 7.0 (2004s)**

- Installation and Upgrade
- Rapid Installer
  - LINUX
  - SOLARIS
  - Windows Server
    - DB2 UDB
    - MS SQL SERVER
    - ORACLE
    - SAP DB
  - BI Content for SAP NetWeaver
  - SAP BI Accelerator

What to Download

Rapid Installer for NW SP11

<table>
<thead>
<tr>
<th>Rapid Installer</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP Rapid Installer 2004s SPS1 1 of 7</td>
<td>51032614_1</td>
</tr>
<tr>
<td>SAP Rapid Installer 2004s SPS1 2 of 7</td>
<td>51032614_2</td>
</tr>
<tr>
<td>SAP Rapid Installer 2004s SPS1 3 of 7</td>
<td>51032614_3</td>
</tr>
<tr>
<td>SAP Rapid Installer 2004s SPS1 4 of 7</td>
<td>51032614_4</td>
</tr>
<tr>
<td>SAP Rapid Installer 2004s SPS1 5 of 7</td>
<td>51032614_5</td>
</tr>
<tr>
<td>SAP Rapid Installer 2004s SPS1 6 of 7</td>
<td>51032614_6</td>
</tr>
<tr>
<td>SAP Rapid Installer 2004s SPS1 7 of 7</td>
<td>51032614_7</td>
</tr>
</tbody>
</table>

To install properly configure the system as shown in the **Before you Begin** section.
Installation Procedure

Uncompress the downloaded files into their respective directories except for the Java Cryptographic Extension file. In the following examples the necessary installation files have been placed on a separate drive. Also they have been manually organized into a logical file structure so that they are easy to find during the following installation procedures. It is highly recommended that you do the same.

Here’s the breakdown that was used:

**Database Utilities** - C:\MSSQL (i.e. instcoll.exe)

**NetWeaver Rapid Install** - C:\NW2004sSP11\RapidInstall

**Java Policy File** - C:\JavaCryptoExtension  (Leave as a zip archive)

These files consume approximately 5GBs so be sure you have the necessary space to handle them; this is in addition to the 9GBs you need to run the install.

To start the rapid installation run the file located here:
Select the Rapid installation with MS SQL Server, as shown below.

Welcome to NetWeaver Installation

SAPinst needs to log you off in order to reliably continue the installation.
If you select OK, SAPinst will log you off and continue the installation when you log on again.
You can select Cancel now, log off yourself and call SAPinst again later.

Note:
If this message reappears after the new logon, your domain is probably setting group policies. In this case, make sure the account which runs the installation has the following User rights before continuing:
Act as part of the operating system, increase quotas and Replace a process level token.
The SAP System ID (SID) is very important in managing your various systems as they uniquely identify each installation. There is usually a company policy naming convention which should be strictly adhered to in order to prevent confusion. Be sure to choose an installation drive with sufficient space for the installation.

Specify the Master Password for the installation which is what the default password will be for all users created during the installation (See Appendix A).

This document uses: **abcd1234**

It is highly recommended that you use something more secure than this!

![SAP System ID and Master Password dialog box](image)
Warned about the following so be sure you have your page file set for the System to administer, see the Before you Begin section.

Prerequisites Checker > Results

Read the results of the prerequisites analysis carefully.

Important Information

Your system has been checked for compliance with the prerequisites:

● If a condition is not met by your system, we strongly recommend that you fix this before starting the installation.

● In rare cases, you may decide to run the installation despite of conditions that do not hold. The installation will not immediately prevent you from doing this, but make sure that you know what you are doing.

Specify the passwords for the local or domain accounts that will be created.

SAP System > OS User Passwords

Enter the passwords of the operating system users.

SAP System Administrator

Account: Scenario3\Iason
Password of SAP System Administrator: ********

SAP System Service User

Account: Scenario3\SAPServiceF1
Password of SAP System Service User: ********
Specify the local MS SQL Server instance, this list is automatically populated.

Point the installation to the Java Cryptographic Extension policy
C:\JavaCryptoExtension\jce_policy-1_4_2.zip (Leave as a zip archive)
At this point in the install you may have to download this file from one of two locations depending on your VM
Sun: http://java.sun.com/j2se/1.4.2/download.html
IBM: https://www6.software.ibm.com/dl/jcesdk/jcesdk-p
You will have to register or sign in with your account.
Define the size of your database instance files; you can manually adjust this in the MSSQL Enterprise Manager later. This is based on expected data hardware requirements and the use case for your installation. Be sure to look into this setting before proceeding in order to avoid problems down the road, it’s good to err on the side of caution here.

Specify the number, location, and size of the database data and log files

These sizes should be determined by your use case scenario

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Path</th>
<th>Size [MB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBC</td>
<td>F11DATM</td>
<td>C:\F11DATA1</td>
<td>256</td>
</tr>
<tr>
<td>log</td>
<td>F11LOG1</td>
<td>C:\F11LOG1</td>
<td>1024</td>
</tr>
</tbody>
</table>

Point the installer to your Rapid Installation component

Media Browser > Software Package Request

Enter the location of the required software packages

Additional Information

SAPInst will detect the required software packages on the media and check the corresponding package identification files LABELARC.

If you want to copy the media to your local disk, enter the target location in the Copy/Package To column.
Review Your Settings and Start Installation:

Review Parameters

Select the parameters you want to change and choose 'Revise', or choose 'Start' to start with the values shown.

TREX is an optional component and is up to your company if you are going to use it, if you are unsure if you need it or not uncheck this since it can be installed later.

Rapid Installer > TREX

Decide whether you want to install TREX.

TREX Search and Classification Engine

Install TREX
Review Parameters

Select the parameters you want to change and choose 'Revise', or choose 'Start' to start with the values shown.

Parameter List

- SAP System > General Parameters
  - SAP System ID (SAPSID):
    - TRX

- SAP System > Windows Domain
  - Domain Model:
    - Local Installation
  - Windows Domain:

- SAP System > OS User Passwords
  - Password of SAP System Administrator:
    - ****
  - Password of SAP System Service User:
    - ****

- TREX > Instance
  - Instance Number:
    - 02
  - TREX Instance for Upgrade:
    - 0
Parameter Summary

Choose 'Start' to start with the values shown or select the parameters you want to change and choose 'Revise'.

Parameter List

- **SAP System > System ID and Master Password**
  - SAP System ID (SAPSID)
    - FF1
  - Password for all users of this SAP system
    - *****

- **Prerequisites Checker > Data File for Check**
  - Data File for Check
    - C:\NW2004sSP11\RapidInstall\S1030814_1\M\WINDOWS\J386\COMMON\INSTALL\PREREQUISITE_CHECK

- **SAP System > Java Development Kit**
  - JDK Directory
    - C:\j2sdk\1.4.2_16

- **SAP System > JCE Unlimited Strength Jurisdiction Policy Archive**
  - JCE Unlimited Strength Jurisdiction Policy Archive
    - C:\NW2004sSP11\JavaCryptoExtension\jce_policy-1_4_2.zip

- **SAP System > General Parameters**
  - SAP System ID (SAPSID)
    - FF1
This installation procedure is on the order of hours, as in > 4 depending on your machine. It is recommended that you take this time to read up on the various SAP Post Installation Configuration Tools and their operation. Once completed the installation log will appear, be sure to keep this either print or save as a text file for future reference.

If the J2EE Process -> server0 process fails to start then right-click on it and open up the “Developer Trace”. Scroll to the bottom of the window and look at the exception message. Typically it will tell you to reference this note, 943602, for more details.
SAP NetWeaver AS Java High-Availability

This section is designed to summarize and expand upon the information found in the SAP Help Documentation here: http://help.sap.com/saphelp_nw70/helpdata/en/08/5741114ae611d1894f0000e829fbbd/content.htm

Configuring a High-Availability system using SAP software requires some fairly complex technical knowledge as there isn’t a generic method to implement this but rather it is based on your needs and individual business requirements. Any of the various software components you are using in your system can be configured for a High-Availability so be sure to check the help documentation for more details. The High-Availability installation of NetWeaver requires the identification of various system use-cases and a Single Point of Failure Checklist (SPOFs), http://help.sap.com/saphelp_nw70/helpdata/en/08/5745784ae611d1894f0000e829fbbd/content.htm. The model mentioned in this section is for a NetWeaver installation and is based on an actual implementation using the following technologies and their SPOFs:

SAP NetWeaver 7.0 – Central and Dialog instances
Microsoft SQL Server 2005 Enterprise Edition – Shared DB Resources
Microsoft Cluster Server (Windows Server 2003 Enterprise Edition) – Network and File system resources

http://en.wikipedia.org/wiki/Microsoft_Cluster_Server

Each of these components is subject to a very real threat of going down from scheduled maintenance or various system failures. Luckily there are solutions that address each of these concerns along with other not so prominent ones, depending on your use case (i.e. Network availability).

Scenario Overview

This scenario is heavily documented in the SAP Help documentation here: http://help.sap.com/saphelp_nw70/helpdata/en/1c/ba295ee20fcd41b6804f1bc602de68/content.htm and it is recommended that you review this as well. The AS Java failover scenario is part of the SAP Software managed scenario but can be woven together to work with a clustered instance (i.e. MS Cluster Services). The name for the host with the SAP Central Services (CSC) installed is the Central Instance (CI) and the other standby hosts are Dialog Instances (DI), each instance represents a separate machine. The diagram below from the SAP help documentation helps to explain the configuration of this:

![Diagram of SAP NetWeaver AS Java High-Availability configuration](image-url)
An important point to note on this diagram is that the SAP Central Services or CI node contains the master record of the Message and Enqueue services, if this node fails these services will “Switchover” to one of the standby DI hosts, http://help.sap.com/saphelp_nw70/helpdata/en/04/285ea6a87f11d194a400a0c930df15/content.htm. For more information on different types of Switchover options please navigate to the help documentation here: http://help.sap.com/saphelp_nw70/helpdata/en/08/5744f14ae611d1894f0000e829fbbd/content.htm.

**Component Terms & Definitions**

The installation procedures for this scenario require you to perform an AS Java installation for each of the nodes you wish to create in your environment. These nodes are defined as follows:

**Central Services Instance (CSC)** – The first step in installing a high-availability SAP system distributed on several hosts, where the usage types are based on AS Java. Installs a central services (SCS) instance and prepares this host as SAP global host. You must install it on a shared disk. A central services instance is a mandatory instance for your SAP system with usage types based on AS Java. The central services instance is the main point of communication and synchronization for the Java cluster. A central services instance consists of the message service and the Enqueue service.

**First MSCS Node** - This step creates the SAP cluster group on the first Microsoft Cluster Service (MSCS) node and adds the SCS instance to the SAP cluster group. With MSCS you enable critical system components, so-called Single Points of Failure (SPOFs) to be automatically switched from one machine to the other, if hardware or software problems arise on one machine. With the help of this switchover - or failover - the system can continue functioning normally so that unplanned system downtime is avoided.

* You must have already completed the central services instance installation

**Database Instance** - If your database instance is to be installed in the same MSCS cluster as the SCS instance, you must perform this step on the first node of this MSCS cluster. If your database instance is to be installed in a different MSCS cluster from the SCS instance, you perform this step on another MSCS cluster. You must have finished the Central Services Instance (SCS) installation. The database instance is a mandatory instance for the installation of an SAP system. The SAP system with usage types based on AS Java uses its own database schema in the database.

**Additional MSCS Node** - This step configures an additional MSCS node to run the SAP cluster group. You must have configured the first MSCS node. With MSCS you enable critical system components, so-called Single Points of Failure (SPOFs) to be automatically switched from one machine to the other, if hardware or software problems arise on one machine. With the help of this switchover - or failover - the system can continue functioning normally so that unplanned system downtime is avoided.

**Enqueue Replication Server** - Installs an Enqueue replication server. You must perform this step on all MSCS nodes where the Java central services (SCS) instance or ABAP central services instance (ASCS) is installed and clustered. The Enqueue replication server contains a replica of the lock table (replication table).

**Central Instance (CI)** – This is a mandatory step in installing a high-availability SAP system distributed on several hosts (distributed system), where the usage types are based on AS Java. Installs a central instance and enables additional usage types or software units if required. This step is not repeatable. If you install the central instance on one of the MSCS nodes, make sure that you use a local drive, not a shared drive. The central instance is the core component of an SAP system. Exactly one central instance must exist in each SAP system. The central instance usually provides all SAP system utilities.

* You must have finished the database instance installation

**Dialog Instance (DI)** - Mandatory step in installing a high-availability SAP system distributed on several hosts. You have to install at least one dialog instance. Make sure that you install the dialog instance on a host other than the central instance host. If you install the dialog instance on one of the MSCS nodes, make sure that you use a local drive, not a shared drive. Dialog instances are SAP instances that include the Dispatcher, IGS, CCMS agents, Java server processes, and the Gateway.
Typical Installation Procedure

To install NetWeaver for High-Availability configure each of the systems the same as in the Before you Begin section of this document.

Installation Procedure

Uncompress the downloaded files into their respective directories. In the following examples the necessary installation files have been placed on a separate drive. Also they have been manually organized into a logical file structure so that they are easy to find during the following installation procedures. It is highly recommended that you do the same. Here’s the breakdown that was used:

**Database Utilities** - SQL Server 2005 EE DVDs

**Installation Master** - Installation Master DVD: 51032260_11

**NetWeaver Java** - NetWeaver Java DVD: 51032257

**NW UC Kernel** - Kernel DVD: 51032893_11

**Java Policy File** - F:\JavaCryptoExtension  (Leave as a zip archive)

In order to successfully complete High-Availability installations please refer to the NetWeaver installation guide and help documentation for additional details. Run the Master Installation executable located here:
When the Master Installation begins navigate to the following location:

**Welcome to SAP Installation Master**

Before you start the installation, make sure that you have identified the required scenario as described in the Master Guide.

The below steps do not cover the clustering of the Database Instance as this should be done prior to conducting the steps below.

Identify your primary machine for the central instance and install the following components:

1) Run the **Central Services Instance (CSC)** installation
2) Run the **First MSCS Node** installation
3) Run the **Database Instance** installation
4) Run the **Central Instance** installation
5) Run the **Enqueue Replication Server** installation (Optional)
For the secondary machine, install the following below.

1) Run the **Dialog Instance** installation
2) Run the **Enqueue Replication Server** installation (Optional)

For HTTP load balancing, install the SAP Web Dispatcher

a. Following OSS 834184 to install a SAP Web Dispatcher within Microsoft Cluster Server (MSCS). *Be sure to store information about each instance on the grid in Appendix A*

**Installing the Central Services Instance (CSC)**

1) Run SAPInst from the Installation Master CD within the F:\NW2004s\InstallationMaster\IM_WINDOWS_I386\sapinst.exe (installation file will be copied to C:\Program Files\sapinst).

2) At the “Welcome to SAP Installation Master” screen, choose SAP NetWeaver 2004s SR2 >> SAP Systems >> MS SQL Server >> High-Availability System >> Based on AS Java >> Central Services Instance (SCS) then click Next.

3) At the ‘SAP System > General Parameters’ screen, enter the SAPSID and installation drive (Note: Ensure you select a shared drive). If this is the first time the installer is launched, you might be prompted to logoff and re-login.
4) At the “SAP System > Windows Domain” screen, select ‘Local Installation’ then click Next
5) At the “SAP System > OS User Passwords” screen, enter the passwords for local user sidadm and SAPServiceSID then click Next.
6) At the “SAP System > SCS Instance” screen, enter the SCS Instance Number then click Next.

**SAP System > SCS Instance**

Enter the parameters for the SAP Central Services (SCS) instance

**Detected SAP System Instances**

SAP has found the following SAP system instances on this host:

<table>
<thead>
<tr>
<th>SAP System ID</th>
<th>Instance Number</th>
<th>Instance Name</th>
</tr>
</thead>
</table>

**SCS Instance Parameters**

SCS Instance Number

**Additional Information**

The SCS instance requires an Instance Number as a technical identifier for internal processes. This number must be unique for this installation host.
7) At the “SAP System > SCS Instance” screen, take the default internal SCS messaging service port then click Next.

**SAP System > SCS Instance**

Enter the parameters for the SAP Central Services (SCS) instance.

**SCS Instance Parameters**

Internal SCS Messaging Service Port

**Additional Information**

The instance-specific Internal Messaging Service Port is required as a unique internal communication channel.
8) At the “Media Browser > Software Package Request” screen, browse to the “LABEL.ASC of the UC Kernel DVDs (e.g. - F:\NW2004s\UCKernel…..) then click OK.

Media Browser > Software Package Request

Enter the location of the required software packages

<table>
<thead>
<tr>
<th>Media Name</th>
<th>Package Location</th>
<th>Copy Package To</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC Kernel NW2004sSR2</td>
<td>311W\NW2004\LIN\KERNEL\LABEL.ASC</td>
<td>Browse...</td>
</tr>
</tbody>
</table>

Additional Information
SAPFirst will detect the required software packages on the media and check the corresponding package identification files LABEL.ASC. If you want to copy the media to your local disk, enter the target location in the Copy Package To column.

Cancel OK
9) At the “SAP System > Unpack Archives” screen, take the default then click Next.

**SAP System > Unpack Archives**

Select which archives you want to unpack.

---

**SAP System Archives**

SAPFirst has determined that the selected archives have to be unpacked. Choose Next to get the archives unpacked automatically from DVD to SAP Global Host.

<table>
<thead>
<tr>
<th>Unpack Archive</th>
<th>Codepage</th>
<th>Destination</th>
<th>Downloaded To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB IDEF</td>
<td>Unicode</td>
<td>UI\user\sap\SAPSYS...</td>
<td></td>
</tr>
</tbody>
</table>

---

**Additional Information**

If you have downloaded newer versions of these archives from SAP Service Marketplace, enter their locations in column Downloaded To. Deselect Unpack for archives that you want to unpack manually, for instance if the destination is located on a network share for which the installation user does not have write permissions.

---

**Back** | **Next**
10) At the “Parameter Summary” screen, ensure all parameters are correct then click Start.

Parameter Summary

Choose 'Start' to start with the values shown or select the parameters you want to change and choose 'Revise'.

- Data File for Check
  
  D:\temp\Installation Software\51052208abbage2005_SR2\sap\Installation_Master\# WINDOWS\18

- SAP System > SCS Instance
  
  SCS Instance Number

- Internal SCS Messaging Service Port

- Media Browser > Software Package Request

- SAP System > Unpack Archives

At the “Task Progress” screen, confirm every phase was successful then click OK.
Installing the First MSCS Node

1) Run SAPInst from the Installation Master CD within the
   F:\NW2004s\InstallationMaster\IM_WINDOWS_1386\sapinst.exe (installation file will be copied to
   C:\Program Files\sapinst).

2) At the “Welcome to SAP Installation Master” screen, choose SAP NetWeaver 2004s SR2 >> SAP
   Systems >> MS SQL Server >> Based on AS Java >> First MSCS Node then click Next.
3) At the “SAP System > Instance Type for MSCS” screen, select ‘SCS instance (Java)’ then click Next.

4) At the “SAP System > MSCS Cluster” screen, enter SID, Instance Number, and virtual hostname of SCS then click Next.
5) At the “Media Browser > Software Package Request” screen, browse to the LABEL.ASC of the UC Kernel DVD then click OK.
6) At the "SAP System > Windows Domain" screen, select 'Use domain of current user' then click Next.

Media Browser > Software Package Request

Enter the location of the required software packages

Software Package(s)

<table>
<thead>
<tr>
<th>Media Name</th>
<th>Package Location</th>
<th>Copy Package To</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC Kernel NW2004spSR2</td>
<td>WINDOWS INT 08ALABEL AS1</td>
<td>Browse</td>
</tr>
</tbody>
</table>

Additional Information

SAPInstall will detect the required software packages on the media and check the corresponding package identification files LABEL.ASC.

If you want to copy the media to your local disk, enter the target location in the Copy Package To column.

Back | Next
7) At the “SAP System > OS User Passwords” screen, enter the password for the domain sidadm and SAPServiceSID accounts then click Next.

SAP System > OS User Passwords

Enter the passwords of the operating system users

SAP System Administrator

Account: [REDACTED]
SAP System Administrator Password: [REDACTED]

SAP System Service User

Account: [REDACTED]
SAP System Service User Password: [REDACTED]
8) At the “Parameter Summary” screen, ensure all parameters are correct then click Start.

Parameter Summary

Choose 'Start' to start with the values shown or select the parameters you want to change and choose 'Revise'.

<table>
<thead>
<tr>
<th>Parameter List</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP System &gt; Instance Type for MS CS:</td>
</tr>
<tr>
<td>Instance Type</td>
</tr>
<tr>
<td>SCS Instance (Java)</td>
</tr>
<tr>
<td>SAP System &gt; MS CS Cluster</td>
</tr>
<tr>
<td>SAP System ID (SAPSID)</td>
</tr>
<tr>
<td>Instance Number</td>
</tr>
<tr>
<td>Virtual Instance Host</td>
</tr>
<tr>
<td>Support of multiple SAP systems in one MS CS cluster?</td>
</tr>
<tr>
<td>Media Browser &gt; Software Package Request</td>
</tr>
<tr>
<td>Media Name</td>
</tr>
<tr>
<td>UC Kernel NW2004SR2</td>
</tr>
<tr>
<td>SAP System &gt; Windows Domain</td>
</tr>
<tr>
<td>Domain Model</td>
</tr>
</tbody>
</table>

SAP DEVELOPER NETWORK | sdn.sap.com  
BUSINESS PROCESS EXPERT COMMUNITY | bpx.sap.com
© 2008 SAP AG
9) At the “Task Progress” screen, confirm all phase finished successfully then click OK.

![Task Progress]

10) When the installation is complete, add the parameter and value “enque/serverhost=<Virtual SCS Hostname> is set in the default profile.

Installing the Database Instance

1. Run SAPInst from the Installation Master CD within the F:\NW2004s\InstallationMaster\IM_WINDOWS_I386\sapinst.exe (installation file will be copied to C:\Program Files\sapinst).

2. At the “Welcome to SAP Installation Master” screen, choose SAP NetWeaver 2004s SR2 >> SAP Systems >> MS SQL Server >> High-Availability System >> Based on AS Java >> Database Instance
then click Next.

![Welcome to SAP Installation Master](image)

Select the service that you want to install:

- SAP SCM 7.0 Support Release 2
- SAP SRM 7.0 Support Release 2
- NW2004s Support Release 2
- SAP Systems
  - IBM DB2 for Linux, UNIX, and Windows
  - IBM DB2 for z/OS
  - IBM DB2 for AS/400
  - AS/400 SQL Server
- Based on ABAP and AS Java
  - Central System
  - Distributed System
  - High Availability System
  - Based on ABAP and AS Java
    - Central Services Instance (CCS)
    - First NSCS Node
    - Additional NSCS Node
    - Enqueue Replication Server
    - Central instance
    - Coding Instance

3. At the “Media Browser > Software Package Request” screen, browse to the LABEL.ASC of the Java Component NW2004sSR2 DVD then click OK.

![Media Browser > Software Package Request](image)

**Software Packages**

<table>
<thead>
<tr>
<th>Media Name</th>
<th>Package Location</th>
<th>Copy Package To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Java Component NW2004sSR2</td>
<td>Software: 50122293248107+LABEL.ASC</td>
<td>Browse</td>
</tr>
</tbody>
</table>

**Additional Information**

SAPInst will detect the required software packages on the media and check the corresponding package identification files LABEL.ASC.

If you want to copy the media to your local disk, enter the target location in the Copy Package To column.
4. At the “SAP System > Java Development Kit” screen, confirm the JDK version then click Next.

5. At the “SAP System > JCE Unlimited Strength Jurisdiction Policy Archive” screen, browse to the “jce_policy-1_4_2.zip” then click Next.
6. At the “SAP System > General Parameters” screen, enter the path to the profile directory then click Next.

```
SAP System > General Parameters

Enter the profile directory of the SAP system
```

![Profile Directory](image)

Additional Information
SAPinst handles existing parameters from the SAP system profile directory. Location of your SAP system profile directory:
- Windows: %SAPGLOBAL(MAX)%\sapinst\<SAPSID>\SYSPROFILE
- UNIX: /sap/$SAPSID/PROFILE
- OS/400: C:\$SAPLIB\HOST\<SAPSID>\SYSPROFILE

7. At the “SAP System > Master Password” screen, enter the master password then click Next.

```
SAP System > Master Password

Enter the master password all users
```

![Master Password](image)

Additional Information
The password will be used for all accounts SAPinst creates and for the secure store key phrase. The length has to be 8-14 characters. Depending on your installation scenario there might be more restrictions.

Password for all users of this SAP system: ********

Confirm: ********

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8. At the “SAP System > OS Users Passwords” screen, enter the domain SIDadm and SAPServiceSID password then click Next.

![SAP System > OS User Passwords](image)

Enter the passwords of the operating system users

<table>
<thead>
<tr>
<th>Account</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP System Administrator</td>
<td>*********</td>
</tr>
<tr>
<td>SAP System Service User</td>
<td>*********</td>
</tr>
</tbody>
</table>

9. At the “MS SQL Server > Database Connection Information” screen, enter the MS SQL Server instance name then Next.

![MS SQL Server > Database Connection Information](image)

Enter the MS SQL Server instance name

<table>
<thead>
<tr>
<th>Local MS SQL Server Instances</th>
<th>Instance 1</th>
</tr>
</thead>
</table>

Additional Information

Make sure that your database is running. SAPInst uses Windows authentication to connect to the database instance. You can only use a local instance of MS SQL Server for this installation bpx.
10. At the “MS SQL Server > Database Information” screen, confirm this is a new database will be created then click Next.

11. At the “MS SQL Server > Database Schema” screen, enter the DB schema password then click Next.
At the “MS SQL Server > Database Files” screen, enter Data and Log drives then click Next.

12. At the “MS SQL Server > Tempdb Configuration” screen, modify the tempdev and templog location and size with the below then click Next.

13. At the “SAP System > Secure Store Settings” screen, take the default master password then click Next.
14. At the “Media Browser > Software Package Request” screen, browse to the LABEL.ASC of the UC Kernel NW2004sSR2 DVD then click OK.

15. At the “Parameter Summary” screen, confirm all parameters are correct then click Start.

16. At the “Task Progress” screen, confirm the installation was successful, then click OK.
Task Progress

The Task has been completed successfully.

<table>
<thead>
<tr>
<th>Phase List</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Update system DLLs</td>
</tr>
<tr>
<td>✓ Create users for SAP system</td>
</tr>
<tr>
<td>✓ Initial common system files</td>
</tr>
<tr>
<td>✓ Unpack SAP archives</td>
</tr>
<tr>
<td>✓ Create and load database</td>
</tr>
<tr>
<td>✓ Configure database client</td>
</tr>
<tr>
<td>✓ Configure database server</td>
</tr>
<tr>
<td>✓ DB downtime configuration</td>
</tr>
<tr>
<td>✓ Create/modify database schema SAPXLDG</td>
</tr>
<tr>
<td>✓ Grant database access for account CTodadmin</td>
</tr>
<tr>
<td>✓ Grant database access for account BEWAMAP3039A</td>
</tr>
<tr>
<td>✓ Grant database access for account BEWAMAP3093X</td>
</tr>
<tr>
<td>✓ Configure database parameters</td>
</tr>
<tr>
<td>✓ Create secure store</td>
</tr>
<tr>
<td>✓ Import Java dump</td>
</tr>
<tr>
<td>✓ Postload activities</td>
</tr>
<tr>
<td>✓ Postload activities</td>
</tr>
</tbody>
</table>

Execution of Service SAP NetWeaver 7004 Support Release 2 on SAP Systems with MS SQL Server on High Availability System based on AS Java/Database Instance has been completed successfully.

Executes of Service has been completed successfully.
Installing the Additional MSCS Node

1. Run SAPInst from the Installation Master CD within the F:\NW2004s\InstallationMaster\IM_WINDOWS_I386\sapinst.exe (installation file will be copied to C:\Program Files\sapinst).

2. At the “Welcome to SAP Installation Master” screen, choose SAP NetWeaver 2004s SR2 >> SAP Systems >> MS SQL Server >> High-Availability System >> Based on AS Java >> Additional MSCS Node then click Next. If this is the first time the installer is launched, you might be prompted to logoff and re-login.

3. At the “SAP System > Instance Type for MSCS” screen, select ‘SCS instance (Java)’ then click Next.
4. At the “SAP System > MSCS Cluster” screen, enter SID, Instance Number, and virtual hostname of SCS then click Next.

5. At the “Media Browser > Software Package Request” screen, browse to the LABEL.ASC of the UC Kernel NW2004sSR2 DVD then click OK.

6. At the “SAP System > Windows Domain” screen, select ‘Use domain of current user’ then click Next.
7. At the “SAP System > OS User Passwords” screen, enter the password for the domain SIDadm and SAPServiceSID accounts then click Next.

8. At the “Parameter Summary” screen, confirm all parameters are correct then click Start.
9. At the “Task Progress” screen, ensure all phases completed successfully then click OK.

Open Cluster Administrator, and bring SAP <SID> cluster group online. Fail the SAP <SID> group to other node to ensure all resources will come online on both nodes.
Installing the Central Instance

1. Bring SAP <SID> cluster group online on Node 1.

2. Run SAPInst from the Installation Master CD within the F:\NW2004s\InstallationMaster\IM_WINDOWS_I386\sapinst.exe (installation file will be copied to C:\Program Files\sapinst).

3. At the "Welcome to SAP Installation Master" screen, choose SAP NetWeaver 2004s SR2 >> SAP Systems >> MS SQL Server >> High-Availability System >> Based on AS Java >> Central Instance then click Next. If this is the first time the installer is launched, you might be prompted to logoff and re-login.

4. At the "Media Browser > Software Package Request" screen, browse to the LABEL.ASC of the Java Component NW2004sSR2 DVD then click OK.
5. At the “SAP System > Java Development Kit” screen, confirm the JDK directory then click Next.

6. At the “SAP System > General Parameters” screen, enter the path to the profile directory and installation drive then click Next.
7. At the “SAP System > Master Password” screen, enter the master password then click Next.

8. At the “SAP System > OS User Passwords” screen, enter the password for the domain SIDadm and SAPServiceSID accounts then click Next.
9. At the “SAP System > Software Units” screen, do not select a Software Unit then click Next.
10. At the “SAP System > Central Instance” screen, enter the Central Instance Number then click Next.

11. At the “SAP System > Central Instance” screen, ensure the virtual SAP cluster name is used for the Transport Directory then click Next.

12. At the “SAP System > UME Configuration” screen, select ‘Use Java database (default)’ then click Next.
13. At the “SAP System > Java UME” screen, take the default master password for Administrator, Guest, and SDM then click Next.

14. At the “Media Browser > Software Package Request” screen, browse to the LABEL.ASC of the UC Kernel NW2004sSR2 DVD then click OK.
15. At the “SAP System > Unpack Archives” screen, take default and click Next.

16. At the “SAP System > NWDI Landscape” screen, **do not** select ‘Prepare SAP system for NWDI integration’ then click Next.
17. At the “SAP System > System Landscape Directory” screen, select ‘No SLD destination’ then click Next.

18. At the “SAP System > ADS Administrator” screen, take the default master password then click Next.
19. At the “Parameter Summary” screen, confirm all parameters are correct then click Start.

Parameter Summary

Choose Start to start with the values shown or select the parameters you want to change and choose Revise.

20. At the “SAP System > SAP Solution Manager” screen, enter the Solution Manager Key then click Continue.
21. At the “Task Progress” screen, ensure all phases are completed successfully then click OK.
Installing the Dialog Instance

1. Bring SAP <SID> Cluster group online on Node 2.

2. Run SAPInst from the Installation Master CD within the F:\NW2004s\InstallationMaster\IM_WINDOWS_I386\sapinst.exe (installation file will be copied to C:\Program Files\sapinst).

3. At the “Welcome to SAP Installation Master” screen, choose SAP NetWeaver 2004s SR2 >> SAP Systems >> MS SQL Server >> High-Availability System >> Based on AS Java >> Dialog Instance then click Next. If this is the first time the installer is launched, you might be prompted to logoff and re-login.

4. At the “SAP System > General Parameters” screen, enter the path to the profile directory and installation drive then click Next.
5. At the “SAP System > OS User Passwords” screen, enter the password for the domain SIDadm and SAPServiceSID accounts then click Next.

6. At the “Media Browser > Software Package Request” screen, browse to the LABEL.ASC of the Java Component NW2004sSR2 DVD then click OK.
7. At the “SAP System > Java Development Kit” screen, confirm the JDK directory then click Next.

8. At the “SAP System > JCE Unlimited Strength Jurisdiction Policy Archive” screen, browse to the “D:\tmp\Installation Software\jce_policy-1_4_2.zip” then click Next.
9. At the "SAP System > Dialog Instance" screen, enter the Dialog Instance Number then click Next.

10. At the "Media Browser > Software Package Request" screen, browse to the LABEL.ASC of the UC Kernel NW2004sSR2 DVD then click OK.
11. At the “SAP System > Unpack Archives” screen, take the default then click Next.

12. At the “Parameter Summary” screen, confirm all parameters than click Start.
13. At the “Task Progress” screen, confirm all phases are complete then click OK.

### Task Progress

The Task has been completed successfully.

<table>
<thead>
<tr>
<th>Phase List</th>
<th>Execution of Service SAP NetWeaver 2004s Support Release 2 + SAP Systems + MS SQL Server + High-Availability System + Based on AS Java + Dialog Instance has been completed successfully</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update system DLLs</td>
<td></td>
</tr>
<tr>
<td>Install JCO policy file</td>
<td></td>
</tr>
<tr>
<td>Create users for SAP system</td>
<td></td>
</tr>
<tr>
<td>Install common system files</td>
<td></td>
</tr>
<tr>
<td>Unpack SAP archives</td>
<td></td>
</tr>
<tr>
<td>Configure database client</td>
<td></td>
</tr>
<tr>
<td>Install dialog instance</td>
<td></td>
</tr>
<tr>
<td>Start dialog instance</td>
<td></td>
</tr>
</tbody>
</table>

OK
Installing the SAP Web Dispatcher

Once each of the cluster instances has been properly installed run the SAP Web Dispatcher installation. The SAP Web Dispatcher is a load balancing and failover standalone software engine that will manage the various user sessions across the different NetWeaver instances. For more information about the SAP Web Dispatcher please see the help documentation here: http://help.sap.com/saphelp_nw70/helpdata/en/42/5cfd3b0e59774ee10000000a114084/content.htm

The Web Dispatcher is installed somewhere on the corporate network where it can access each of the NetWeaver instances as shown in the diagram from the help documentation below:

The SAP Web Dispatcher is installed into the clustered instance to properly manage load balancing between the various nodes. To begin the Web Dispatcher installation procedure run the Master Installation and navigate to the following:
Specify the Web Dispatcher Installation as shown below.

Assign the System ID to the instance, in this case WP1:

- Enter the SAP system ID
- Additional Information: The SAP System ID is an identifier for your SAP system. It must be unique throughout your system landscape.
Assign the password for the Windows account administrative users:

![Password Screen]

Point the Web Dispatcher instance to the Message server host:

![Message Server Screen]
Define the password for the ICM user, webadm:

---

Point to the NetWeaver Unicode Kernel software package, in this case the location is:

F: \NW2004s\UCKernel\NW_2004s_SR2_Kernel_WINDOWS_LNX_X86I386\LABEL.ASC
Review the installation parameters for accuracy:

Define the instance number for the Web Dispatcher to use so that it is unique in the environment:
Review the parameters for accuracy and “Start” the installation, you should see the following:

![Task Progress](image)

This installation procedure requires approximately half an hour depending on your machine. It is recommended that you take this time to read up on the various SAP Post Installation Configuration Tools and their operation. Once completed the installation log will appear, be sure to keep this either print or save as a text file for future reference.

If the J2EE Process -> server0 process fails to start then right-click on it and open up the “Developer Trace”. Scroll to the bottom of the window and look at the exception message. Typically it will tell you to reference this note, 943602, for more details.
Installing the SAP Web Dispatcher

Once each of the cluster instances has been properly installed run the SAP Web Dispatcher installation. The SAP Web Dispatcher is a load balancing and failover standalone software engine that will manage the various user sessions across the different NetWeaver instances. For more information about the SAP Web Dispatcher please see the help documentation here: http://help.sap.com/saphelp_nw70/helpdata/en/42/5cfd3b0e59774ee100000000a114084/content.htm

The Web Dispatcher is installed somewhere on the corporate network where it can access each of the NetWeaver instances as shown in the diagram from the help documentation below:

The SAP Web Dispatcher is installed into the clustered instance to properly manage load balancing between the various nodes. To begin the Web Dispatcher installation procedure run the Master Installation and navigate to the following:
Specify the Web Dispatcher Installation as shown below.

Assign the System ID to the instance, in this case WP1:

SAP System > General Parameters

Enter the SAP system ID

SAP System Parameters

SAP System ID (SAPSID) WP1

Additional Information

The SAP System ID is an identifier for your SAP system. It must be unique throughout your system landscape.
Assign the password for the Windows account administrative users:

SAP System > OS User Passwords

Enter the passwords of the operating system users

**SAP System Administrator**
Account: inaxpdp01
Password of SAP System Administrator: **********
Confirm: **********

**SAP System Service User**
Account: inaxpdp01SAPServiceWP1
Password of SAP System Service User: **********
Confirm: **********

Point the Web Dispatcher instance to the Message server host:

SAP System > Messaging Service Parameters

Enter the messaging service parameters

**SAP Message Server Parameters**
Message Server Host: inaxpdp01
Message Server HTTP Port: 9100

Additional Information
If your system is based on AS ABAP or on AS ABAP and AS Java, enter the parameters of the ABAP message server.
If your system is based on AS Java only, enter the parameters of the Java message server.
Define the password for the ICM user, webadm:

![SAP System > ICM User Management](image)

Additional Information
In order to use the web administration interface for the Internet Communication Manager (ICM) and SAP Web Dispatcher, an administration user webadmin is created.

Point to the NetWeaver Unicode Kernel software package, in this case the location is:
F:\NW2004s\UCKernel\NW_2004s_SR2_Kernel\WINDOWS_LNX_X86\KU_WINDOWS_I386\LABEL.ASC

![Media Browser > Software Package Request](image)

Additional Information
SAP first will select the required software packages on the media and check the corresponding package identification files LABEL.ASC. If you want to copy the media to your local disk, enter the target location in the Copy Package To column.
Review the installation parameters for accuracy:

**Parameter Summary**

Choose 'Start to start with the values shown or select the parameters you want to change and choose 'Review'.

**SAP System > Web Dispatcher**

Enter the SAP Web Dispatcher instance parameters.

**Detected SAP System Instances**

SAPInst found the following SAP system instances on this host:

<table>
<thead>
<tr>
<th>SAP System ID (SAPSID)</th>
<th>Instance Number</th>
<th>Instance Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPI</td>
<td>80</td>
<td>DWEBM6500</td>
</tr>
<tr>
<td>XPI</td>
<td>81</td>
<td>SCS01</td>
</tr>
<tr>
<td>XPI</td>
<td>82</td>
<td>H32</td>
</tr>
</tbody>
</table>

**SAP Web Dispatcher Parameters**

- Instance Number: [Select] 10
- HTTP Port (leave empty for default)
- Create configuration for system of size [Select] Medium

**Additional Information**

The Instance Number for the SAP Web Dispatcher instance serves as a technical identifier for controlling internal processes (such as assigned memory). This number must be unique for this installation host.
Review the parameters for accuracy and "Start" the installation, you should see the following:

This installation procedure requires approximately half an hour depending on your machine. It is recommended that you take this time to read up on the various SAP Post Installation Configuration Tools and their operation. Once completed the installation log will appear, be sure to keep this either print or save as a text file for future reference.

If the J2EE Process -> server0 process fails to start then right-click on it and open up the "Developer Trace". Scroll to the bottom of the window and look at the exception message. Typically it will tell you to reference this note, 943602, for more details.
License Key for NetWeaver 7.0 (2004s)

Requesting a License (Customer)
Navigate to the SAP Service Marketplace ([http://service.sap.com](http://service.sap.com))
Select “SAP Support Portal” and Login
At the top select “Keys & Requests”

Requesting a License (SAP Internal)
If you run into problems during this procedure create an internal CSN message, component XX-SER-LIKEY.

Internal License Key Request: [https://portal.wdf.sap.corp/go/licensekey-int](https://portal.wdf.sap.corp/go/licensekey-int)

[INTERNAL LICENSE KEY REQUESTS](#)

(Quick link: [go/licensekey-int](http://service.sap.com/go/licensekey-int))

The License Key Requests on this page may only be used for S
Please note: Due to hardware maintenance the license key request processing 08.12.2007

General
If you want to request a license key for a customer system please visit our page [http://service.sap.com/go/licensekey-int](http://service.sap.com/go/licensekey-int)
If you want to have a look at the procedure for license key requests from customer Your license key request is processed automatically, so that you will receive the
The requesting process is described in SAP Note [739358](https://support.sap.com/viewable/en/739358).

SAP Business Suite
License Keys for J2EE Engine without ABAP Stack (stand alone) and License Keys for SAP Enterprise Portal can be requested on the following page.
Please use the link:
SAP Products with ABAP Stack, without ABAP Stack (WEB AS Java - J2EE Engine), SAP Enterprise Portal

Request license key
J2EE Engines installed with the ABAP Stack do not need a separate license key. The license key of the ABAP Stack (stand alone) can be used.
As of SAP 9.8 SP3 no special license key for the Portal is needed. Only the basic needs a license key.
License Keys for J2EE Engines without ABAP Stack (stand alone) and License Keys for SAP Enterprise Portal can also be requested with the following link. The requesting process is described in SAP Note [739358](https://support.sap.com/viewable/en/739358).
How to Install & Configure NetWeaver 7.0 (2004s) for your Manufacturing Landscape

SAP NetWeaver™
SAP Web Application Server

⚠️ SSO logon not possible; browser logon ticket cannot be accepted

Choose "Logon" to continue. A dialog box appears in which you can enter your user and password.

<table>
<thead>
<tr>
<th>System</th>
<th>ISP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client</td>
<td>001</td>
</tr>
<tr>
<td>Users</td>
<td>Via Popup</td>
</tr>
<tr>
<td>Password</td>
<td>Via Popup</td>
</tr>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Accessibility</td>
<td>☑</td>
</tr>
<tr>
<td>Log On</td>
<td></td>
</tr>
</tbody>
</table>

Change Password

Fill in the associated fields with the product you wish to receive a license key for:

**ISP PUBLIC/WebAS license key assignment**

- Data to system
  - Installation number: SAP-INTERN
  - System number: (only for existing systems)
- System ID
  - Product
  - Product version
  - Basis component
  - System type
  - Database system
  - Product ID
  - Valid to: 07/25/2008

Daten zum Lizenzserver/Hardware-Schlüssel
- Standard-System
- Hardware key
- Client-System zu einem Lizenzserver

Requested by
- License requester: Salvatore Castro
- E-mail address: salvatore.castron@sap.com

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Once you are finished press the “Create license key” button at the top and you will see the following message at the bottom of the page if all is correct:

Message sent successfully.

Here’s an example of what to enter:

System ID: F11

Product: SAP Solution Manager

Product Version: SAP Solution Manager 4.0

System Type: Test System

Database system: Microsoft SQL Server

Product ID: J2EE-Engine

Hardware key: Depends on your system – In Visual Administrator under:

Server -> Services -> Licensing Adapter

You should receive an automated email with the license key as an attachment it should look similar to this:

License key notification

Contact person: Salvatore Centore
E-mail: salvatore.centore@sap.com

System ID (10 characters): F11
System number (10 characters): 00000000010679286
System type: Training system
Software product/release: SAP SOLUTION MANAGER 4.0
Installation number (10 characters): SAP-INTERN
Database: Microsoft SQL Server

J2EE-Engine 0000000000 --> see attachment 07/25/2008

A file for importing the license key is attached to this e-mail. For more information and documentation about license keys, go to http://service.sap.com/licensekey
Install the License Key from the File

In the Visual Administrator of your SAP J2EE Engine navigate to the Licensing Service node. Use button "Install license from file" (near the lower right corner) to upload the file. You will see a file selection dialog box. Select the file with the license key that you downloaded from the e-mail. Press "Open" to continue.

This should result in a little popup telling you that the license was installed successfully.

License successfully installed.
You can now check your license key on the **Installed Licenses** tab.

Verify that the license type is **Permanent** and the validity is **valid**.
After Expiration of a License Key

The procedure depends upon the type of the license key that expired. After expiration of a temporary license key you have to get a permanent license key from ISP.

But when a permanent license key expired you can install a temporary license key again. This will be valid for 28 days so that you have enough time to get a new permanent license key from ISP again. To install a temporary license key go to the licensing service again, choose tab “General” and push button “Install subsequent temporary license”.

Installing a new J2EE Engine

If you install a new J2EE Engine you will automatically get a new temporary license key. You do not have to apply for a new permanent license key in SAPNet for your new engine as long as the system name and the hardware remain unchanged. You can reuse the file that was attached to the e-mail that you received. Of course, the end of the validity period remains unchanged, i.e. after expiration you do have to apply for a new license key.
Post NetWeaver Installation Configuration

Add the `usr\sap\<SID>\JC00\exe` directory to the **System Path** environment variable.

This enables JSPM to work by being able to reference other libraries.

To use JSPM you have to be logged in as the `<SID>adm` user.

Configure the Internet Connection Manager (ICM)

Follow this link to the SAP Help Documentation:
[http://help.sap.com/saphelp_nw70/helpdata/en/82/9e98d786f040209e6a9e8145153939/content.htm](http://help.sap.com/saphelp_nw70/helpdata/en/82/9e98d786f040209e6a9e8145153939/content.htm)

**NetWeaver System Administration Utilities**

**Visual Administrator** – Used to manage the NetWeaver configuration

usr\sap\<SID>\JC00\j2ee\admin\go.bat

**J2EE Engine** – Config Tool – Used to manage the DB, Secure Store, UME LDAP

usr\sap\<SID>\JC00\j2ee\configtool\configtool.bat

**JSPM** – Used to deploy SCA and SDA applications into NetWeaver in a programmatic and scheduled fashion.

usr\sap\<SID>\JC00\j2ee\JSPM\go.bat

**SDM GUI** – Manage & deploy SDAs and SCAs (not supported for NW 7.0)

usr\sap\<SID>\JC00\SDM\program\RemoteGui.bat

**Standalone Log viewer** – View all of the NetWeaver system logs

usr\sap\<SID>\JC00\j2ee\admin\logviewer-standalone\logviewer.bat

**SAP Management Console** – Monitor status of the server via HTTP

usr\sap\<SID>\SCS01\exe\servicehttp\sapmc\sapmc.html

**SAP Classloader Monitor** – Spy on which classes have been loaded into NetWeaver

usr\sap\<SID>\JC00\j2ee\deploying\refsviewer.bat

**SAP Server Template Configuration Tool** – Provides the NW environment with a predefined system configuration

usr\sap\<SID>\SYS\global\TemplateConfig\cfgtemplatetool.bat

**SAP Internet Connection Manager** – Provides overview of the Application Server connection history and status, see *Post NetWeaver Installation Configuration*

ABAP information can be found in transaction SMICM

The Web Admin port is also shown here

Web Interface: http://<server>:<port>/sap/admin/icmon
Software Delivery Units

The means that SAP uses to deliver various software packages are through the use of software delivery units which can be of type Software Component Archive (SCA), Java Archive (JAR), or SAP Archive (SAR). More information about these delivery units can be found in the SAP Help documentation here:

http://help.sap.com/saphelp_nw70/helpdata/en/7a/e497422930c56ae100000000a155106/content.htm

These archives allow for easy management of various SAP and third party software packages without dealing with lengthy install or software version confusion. Since each software unit has a version associated with it the SAP deployment utilities can determine what has been installed and what needs to be updated based on these values. The Java Support Package Manager (JSPM) is designed to account for these differences and has some very useful administrative features as well such as deployment queuing so that updates can be performed during off-hours to minimize system disruption.

Deploying a Software Component Archive (SCA)

Once NetWeaver has been installed and configured properly in your system landscape it will probably be necessary to deploy additional software components to your system. For example you may wish to deploy the Manufacturing Integration and Intelligence (MII) software. In order to accomplish this, the Java Support Package Manager (JSPM) should be used, information can be found here:

http://help.sap.com/saphelp_nw70/helpdata/en/1f/c45b4211aac353e10000000a1550b0/content.htm

To start the JSPM, login as the <SID>adm user, i.e. F13, open up the command prompt, navigate to the JSPM directory, and run the go.bat script. Otherwise you will have to run the batch file like this: runas /profile /user:<COMPUTERNAME>\f13adm <Path>\go.bat

OR if you are logged in as the <SID>adm user:

C:\usr\sap\F13\JC00\j2ee\JSPM>runas /profile /user:Scenario2/f13adm go.bat

Enter the password for Scenario2/f13adm:

OR if you are logged in as the <SID>adm user:
Login to the JSPM with the SDM user

Log on with SDM password

SDM Password ••••••••

Before starting the patch process, we recommend that you review JSPM User Guide and SAP Note 601603 first.

* The JSPM User Guide is the help documentation link previously mentioned.

The SCA file, i.e. MII02_0.sca, will need to be copied into your NetWeaver Transport Directory and is by default your Central Instance but can be configured to any instance. The transport directory is by default in the following location:

<Drive>/usr/sap/trans/EPS/in

OR

If you know the remote machine name which contains the transport directory it can be accessed across the network with the following URI:

\<TransportServer>\sapmnt\trans\EPS\in

The JSPM can also be used to deliver a “Support Package Stack” which is an upgrade to the NetWeaver system, and has to be downloaded via Solution Manager. Since an SCA is being deployed select “New Software Component” and the type of, if any, NetWeaver Development Infrastructure (NWDI) level of control to use.

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 604637.

The inbox directory is /sapmnt/nghammer.com/sapmnt/trans/EPS/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

Select the SCA files you wish to deploy into your environment by either selecting the version or choosing skip in the “Target Release.SPLevel.PatchLevel” drop down.

Select new software components to deploy

<table>
<thead>
<tr>
<th>VersionName</th>
<th>Target Release.SPLevel.PatchLevel</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>sap.com/XMII</td>
<td>12.0.2.0</td>
<td><img src="." alt="Show Details" /></td>
</tr>
<tr>
<td>sap.com/XMII_MIGRATION</td>
<td>0.0.0.1.2.0</td>
<td><img src="." alt="Show Details" /></td>
</tr>
</tbody>
</table>

The software components being deployed are being validated and checked for any installation conflicts or file corruption. If the components pass the validation stage then they are ready to be deployed.
J2EE Engine will be restarted during deployment if there are Portal applications to be deployed.

The following software components will be deployed:

<table>
<thead>
<tr>
<th>Order</th>
<th>VendorName</th>
<th>Current Release SLevel PatchLevel</th>
<th>Target Release SLevel PatchLevel</th>
<th>Status</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sap.com/X</td>
<td>0.0.0.1.2.0</td>
<td>OK</td>
<td>Show Details</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>sap.com/XML</td>
<td>12.0.2.0</td>
<td>OK</td>
<td>Show Details</td>
<td></td>
</tr>
</tbody>
</table>

The Deployment Stage will move the SCA files from the Check Queue into the Deploy Queue and load them into your system.

<table>
<thead>
<tr>
<th>Order</th>
<th>VendorName</th>
<th>Old Release SLevel PatchLevel</th>
<th>Target Release SLevel PatchLevel</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sap.com/X</td>
<td>0.0.0.1.2.0</td>
<td>SCHEDULED</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>sap.com/XML</td>
<td>12.0.2.0</td>
<td>SCHEDULED</td>
<td></td>
</tr>
</tbody>
</table>

*This may take some time to complete as the SCA files are copied across the network, depending on the network speed, component sizes, and number of components being queued to your system.

Once the deployment has finished you can choose to deploy additional software or exit.

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 C:/usr/sap/F13/OO0iJ2ee/USPILog/log_2008_02_04_08_08_31/spm/Results.html file.

Deployment of software components has finished:

<table>
<thead>
<tr>
<th>Order</th>
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<th>Current Release SLevel PatchLevel</th>
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<tr>
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<td>0.0.0.1.2.0</td>
<td>DEPLOYED</td>
<td>Show Details</td>
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<tr>
<td>2</td>
<td>sap.com/XML</td>
<td>12.0.2.0</td>
<td>DEPLOYED</td>
<td>Show Details</td>
</tr>
</tbody>
</table>

*You can now use your new or updated software component
Removing a Software Component Archive (SCA)

Removing any of the SAP Software Delivery Units from your system in general is not recommended and may result in system stability issues if not done properly. It is important to note that if you undeploy the v12 version of MII you will not lose any of your generated content. However, please backup any and all content and configuration information before undeploying the software. There are two primary methods for removing a software component from your NetWeaver environment and they are via the SAP Software Deployment Manager (SDM) or the SAP Visual Administrator. The SAP SDM has an extensive section in the SAP Help documentation here:

http://help.sap.com/saphelp_nw70/helpdata/en/22/a7663bb3808c1fe10000000a114084/content.htm

To start the SDM run the batch file located here:

<Drive>:\usr\sap\<SID>\JCXX\SDM\program\RemoteGui.bat

Once the application opens click on the “Connect” button and login with the SDM password:

---

Click on the “Undeployment” tab at the top:

Select the MII application components and press the “Select” button to arrow them into the undeployment section:

*Not the dbinit and dic components are not removable.

Once the SDA are selected for “Undeployment” then press the “Start Undeployment” button:
Continue through the application steps pressing the “Next” button and then Finish. Close the application by pressing the checkered flag button at the top:

The selected software component has now been removed from your NW environment; however the database tables still exist along with your content and configuration. If you redeploy MII back into the environment it will automatically use this information and not overwrite it. This behavior is specific for the MII component and may or may not be the same for other software.
Configuring the Java Resource Adapter (JRA)

The Java Resource Adapter (JRA) was designed to wrap the Java Connector (JCo) framework for BAPI/RFC communication in order to provide some additional features and functionality. The help documentation resource for this connector can be found here:

http://help.sap.com/saphelp_nw70/helpdata/en/6f/1bd5caa85b11d6b28500508b5d5211/content.htm or simply do a search for JRA in the NetWeaver help documentation (http://help.sap.com). This section is not intended to replace the help documentation configuration guide which is located here:

http://help.sap.com/saphelp_nw70/helpdata/en/45/2ad4ff2d594c2de10000000a1553f6/content.htm but rather it is designed to augment this process.

Here are some of the benefits to using JRA:

- Allows NetWeaver global for a pre-configured connection to ERP/ECC
- Can be configured for retry and failover
- Easily referenced in an MII Business Logic editor via the JRA action

Here’s the procedure for deploying JRA into your environment:

Start the J2EE Application Server Deploy tool located here:
<drive>:\usr\sap\<SID>\JC<XX>j2ee\deploying\DeployTool.bat

Next, start a new project: Project -> New Project
Give your project a name, such as **SAP_JRA_Configuration** and press OK:

**Address** SAP_JRA_Configuration

Select the Deployer Tab:

Load the sapjra.rar ear module into the tool:

**Address** C:\\usr\\sap\\F13\\SYS\\globalra\\sapjra.rar

Select the SAPJRA.rar file and press OK:
Connect to the Application Server you are deploying tool:

Login to the Application Server:

Define "Caller Impersonation" in the Server Settings -> Identity Subjects menu:

Optionally you can define the JRA configuration properties here or later in the visual administrator, either is fine.

Deploy the JRA EAR Module:
Specify the wrapping application name, such as **SAPJRAConf** (An arbitrary value)

![Application Name dialog box](image1)

Start the Application:

![Application deployed dialog box](image2)

Close the Deploy Tool and start the Visual Administrator, located here:

<drive>:\usr\sap\F13\JC00\j2ee\admin\go.bat

Login to the Visual Administrator:

![Login dialog box](image3)

Navigation to Cluster -> Server -> Services -> Connector Container and select sap.com/<Name> -> eis/SAPJRAFactory:
How to Install & Configure NetWeaver 7.0 (2004s) for your Manufacturing Landscape

Select Managed Connection Factory -> Properties and specify the following:

Language, Password, PortNumber (aka: System Number), SAPClient, ServerName, and UserName

These are defaulted to whatever values you entered in the DeployTool earlier.

* Optionally you may wish to setup the JRA for load balancing across your various application servers, if this is the case you need to add another String Key called Group to your Configuration Properties. The logon group is defined in ERP via transaction code SMLG and assign the group to each of the application servers you wish to load balance across.

Be sure to save your configuration:

In order to verify that the SAP JRA connection resource has been deployed properly navigate to: Cluster -> Server -> Deploy and select the Runtime tab.
Then expand the tree Deploy Service -> Server -> connector you should see the sap.com/SAPJRAConf -> eis/SAPJRAFactory -> connector

If the box is checked with a blue check everything is ok, otherwise consult the NetWeaver logs for more information as to why this failed.

The JRA configurations are visible in the MII Logic Editor JRA Start Session Action:

```
JRA Connector Name: deployedAdapters/eis/SAPJRAFactory/nonGlobalTx/eis/SAPJRAFactory
deployedAdapters/eis/SAPJRAFactory/shareable/eis/SAPJRAFactory
deployedAdapters/eis/SAPJRAFactory/unshareable/eis/SAPJRAFactory
```
Frequently Asked Questions

Q: How do I determine the HTTP and HTTPS ports by NetWeaver?
A: In the visual administrator navigate to:
<SID> -> Dispatcher -> Services -> HTTP Provider
On the Properties tab look at the Ports Key and Value

Q: How can I see the status of my NW System from inside of the Visual Administrator?
A: In the visual administrator navigate to:
<SID> -> Server -> Services -> Monitoring

Q: How can I configure a SAP GUI connection to my newly created ABAP instance?
A: Configure SAP GUI with the following parameters:
Select New Item
Description = Solution Manager v4.0
Application Server = <Fully Qualified Server Name including the domain>
System ID = <SID>
System Number = <CSC Instance Number > or <SCS Instance Number>
Save your configuration

Q: What username and password combination allow me to access into the ABAP system?
A: The username is SAP* and the default password for this user is whatever was set during the installation as the Master Password.

Q: How can I determine my NW Instance Properties?
A: Run the following command from the Windows Command Prompt:
sapcontrol -nr 0 -function GetInstanceProperties

Q: How can I determine the SLD HTTP Port?
A: In your ABAP system where the SLD exits, run transaction SLDAPICUST. This will show the Host, Port, and User information regarding the SLD. The default SLD Data user is SLDDSUSER as configured during a NW ABAP Stack installation.

Or, in Visual Administrator navigate to:
<SID> -> Server -> Services -> SLD Data Supplier

Or via a web browser (You need to belong to the LcrAdministrator Role):
http://<host>:<port>/sld

Q: How can I determine the configuration of the Common Transport Directory?
A: In your ABAP system run transaction STMS.
# Appendix A

## SAP NetWeaver Installation Property Reference Sheet

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>The SAP System ID</td>
<td>The ID for the SAP System being installed.</td>
</tr>
<tr>
<td>Drive letter for the installation</td>
<td>The drive letter used for the installation.</td>
</tr>
<tr>
<td>Default password for all accounts created during the install</td>
<td>The default password for all accounts.</td>
</tr>
<tr>
<td>Description of the database files</td>
<td>A description of the database files.</td>
</tr>
<tr>
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<td>The reference name of the SID</td>
<td>The reference name of the SID.</td>
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<td>Host with Transport directory</td>
<td>The host with the transport directory.</td>
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<tr>
<td>Internal SCS messaging</td>
<td>Internal SCS messaging.</td>
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<tr>
<td>The central instance of (CSC)</td>
<td>The central instance of (CSC).</td>
</tr>
<tr>
<td>Account default password</td>
<td>The account default password.</td>
</tr>
<tr>
<td>Location of the temporary database files</td>
<td>The location of the temporary database files.</td>
</tr>
</tbody>
</table>
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