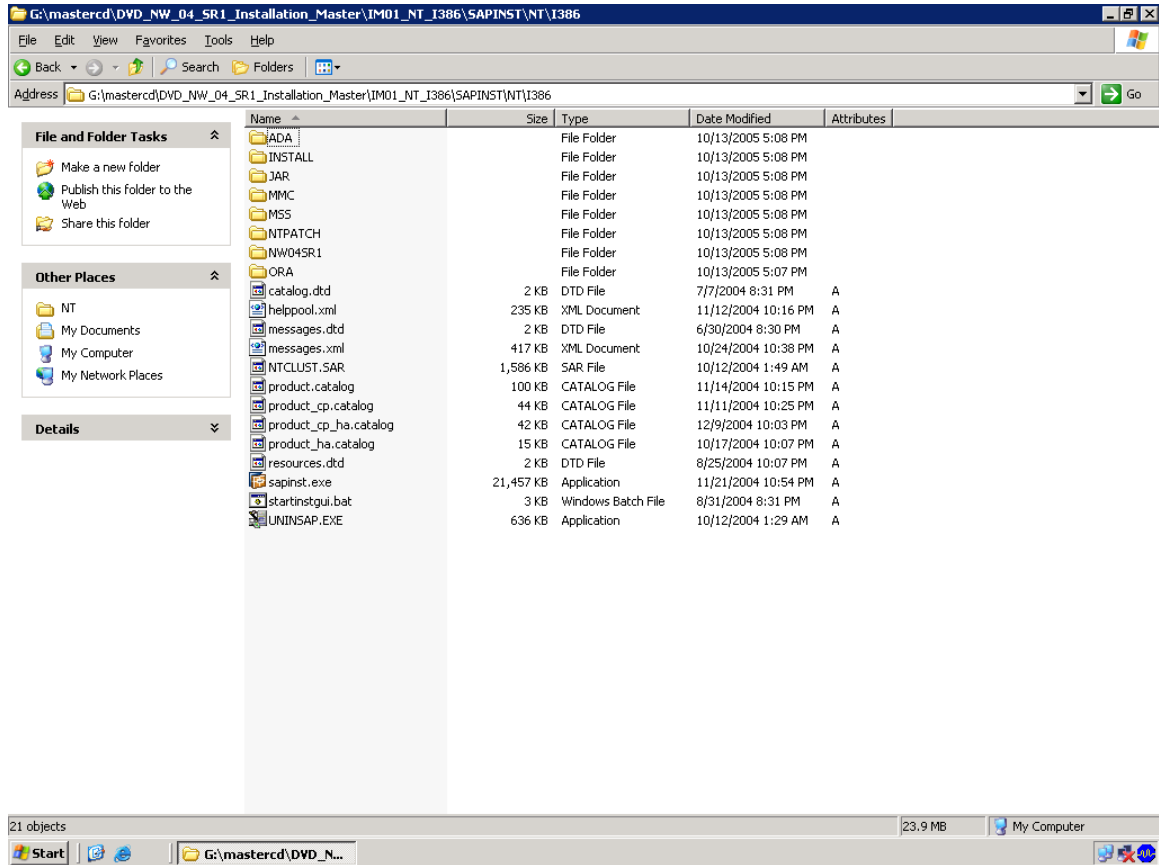
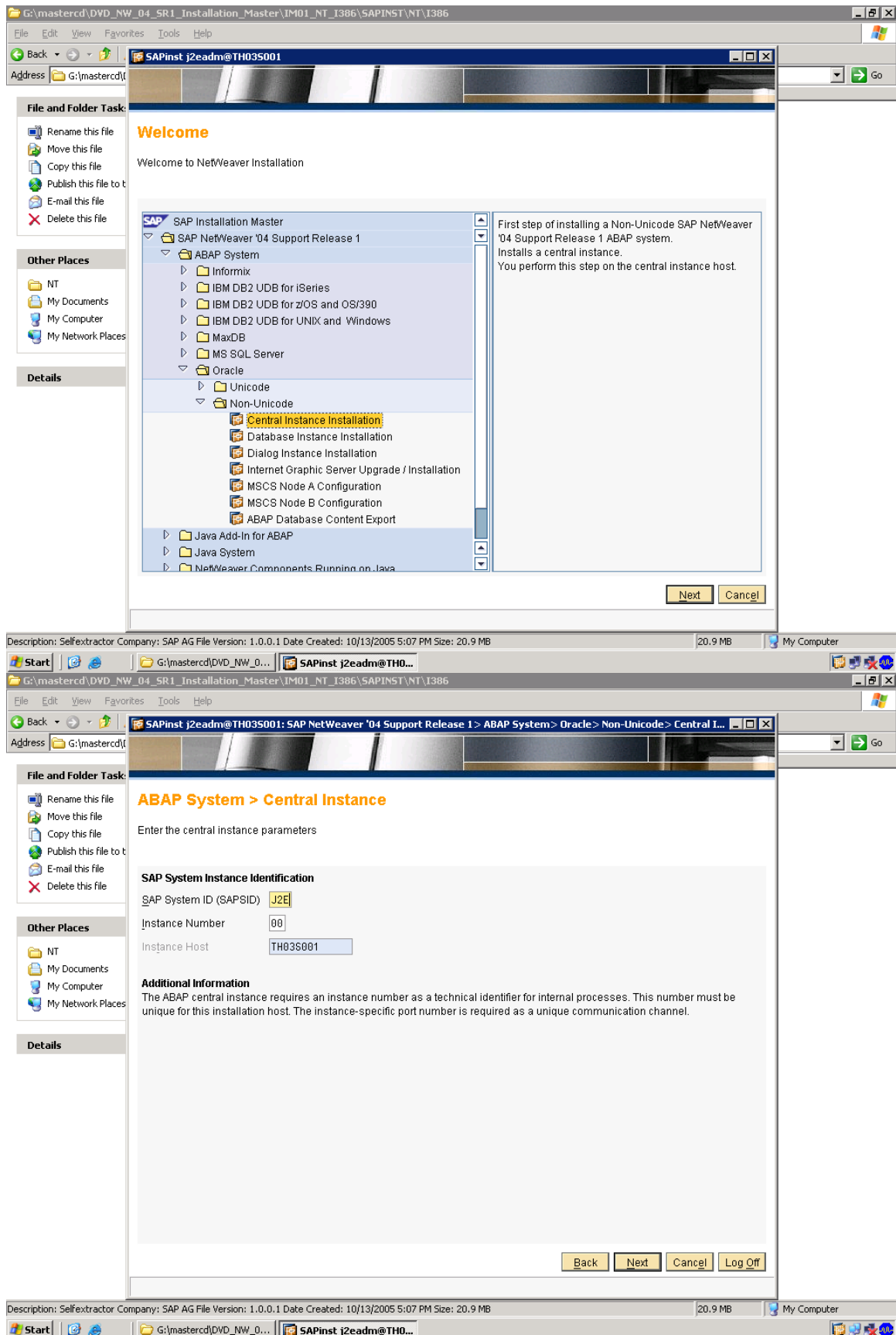


Install JDK 1.4.2\_06 & set environment.





G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**ABAP System > Database Instance**

Enter the database parameters

**SAP System Identification**

SAP System ID (SAPSID) J2E

**Database Parameters**

Database ID (DBSID) J2E

Database Host TH03S001

**Additional Information**

The SAP System ID and Database ID are identifiers for your SAP system. They must be unique throughout your system landscape. If you want to use an existing database with a valid database release for this installation, enter the database ID and host of the existing database.

Back Next Cancel Log Off

Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB 20.9 MB My Computer

Start G:\mastercd\DVD\_NW\_0... SAPinst j2eadm@TH0...

G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**ABAP System > Instance Host**

Enter the instance host parameters

**SAP System Instance Identification**

SAP System ID (SAPSID) J2E Instance Host TH03S001

Instance Name DVEBMGS00

**Instance Memory Management**

Total RAM [MB] 1023

Instance RAM [MB] 614

**SAP System User Domain**

If you want the SAP system to run on a single machine, you can perform a *Local installation*. If you want to distribute the system across more than one machine, we strongly recommend a domain installation. In this case, all operating system users have to be created before the installation or you have to be domain administrator to create them during the installation.

Domain Model ☒ Local Installation ☐ Installation in Domain of Current User ☐ Installation in Different Domain

Windows Domain

Back Next Cancel Log Off

Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB 20.9 MB My Computer

Start G:\mastercd\DVD\_NW\_0... SAPinst j2eadm@TH0...

G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**SAPinst j2eadm@TH03S001: SAP NetWeaver '04 Support Release 1 > ABAP System > Oracle > Non-Unicode > Central I...**

**ABAP System > Instance Directories**

Specify the location of the instance directories

**Location of SAP System Executables**  
You can run the SAP system on several different operating systems at the same time. Do you want the SAP system instance executables to always be located on the central instance host in a platform-specific directory?

Heterogeneous System Support ☐ Yes; locate executables on central instance host  
☒ No preparation for other OS platforms

**Distribution of Instance Directories**

Local Drives	Capacity [MB]	Free Space [MB]
C:	16084	11703
E:	85002	81848
F:	85002	78846
G:	93936	85752

Installation Drive C:  
Host with Transport Directory TH03S001

Back Next Cancel Log Off

Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB

Start G:\mastercd\DVD\_NW\_0... SAPinst j2eadm@TH0...

G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**SAPinst j2eadm@TH03S001: SAP NetWeaver '04 Support Release 1 > ABAP System > Oracle > Non-Unicode > Central I...**

**Oracle > Database System**

Enter the parameters of the database system

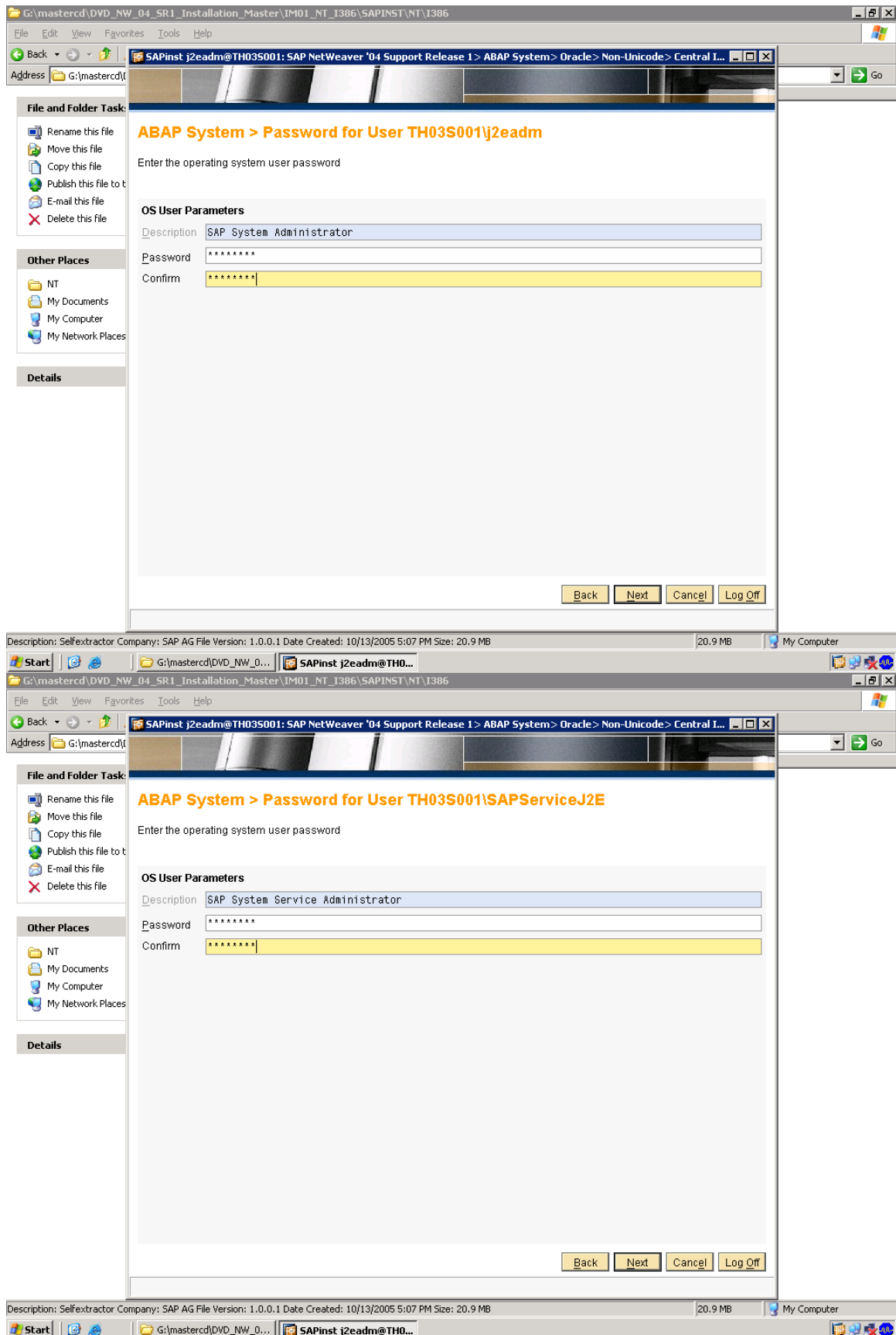
**Database Instance Parameters**

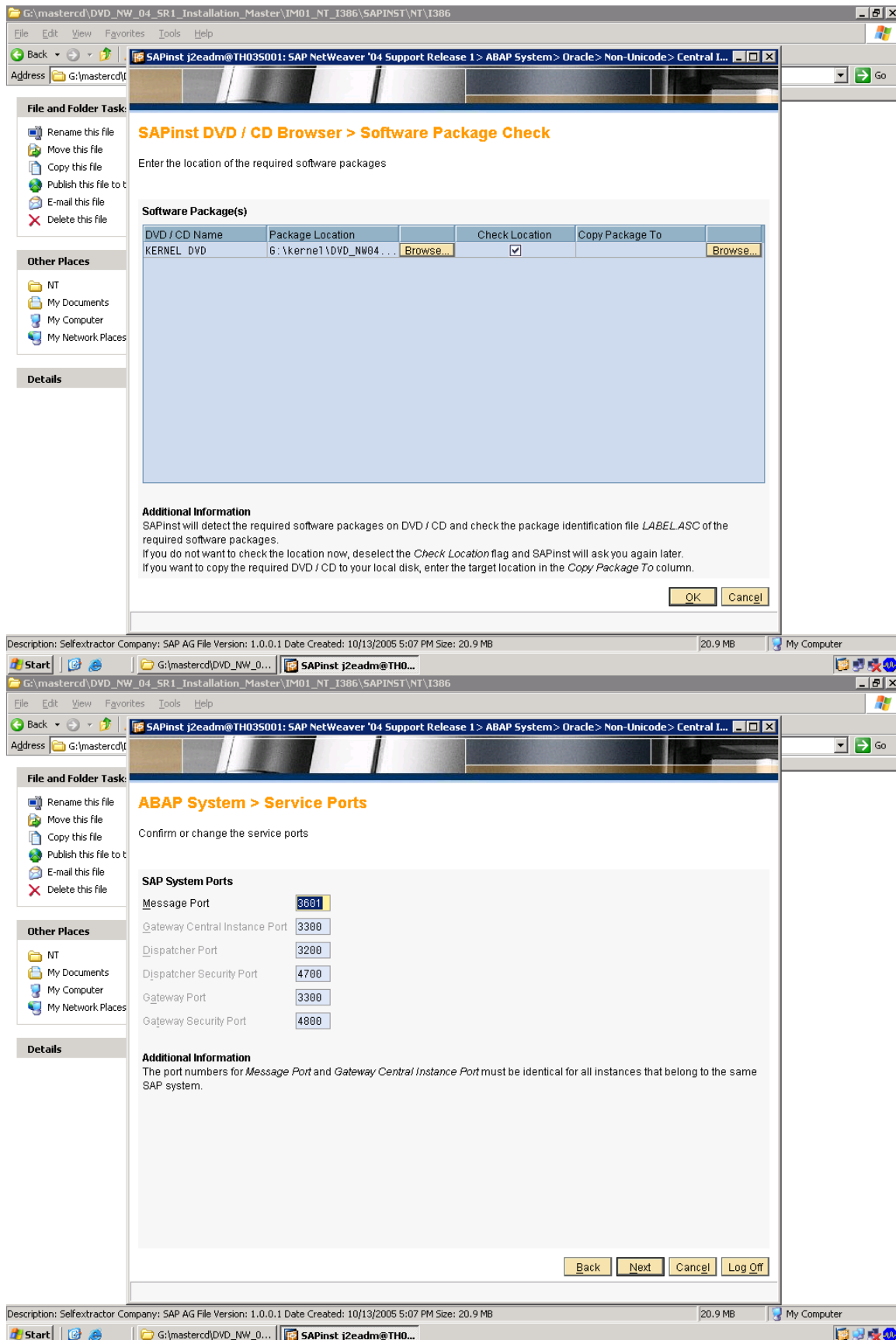
Database ID (DBSID) J2E Database Schema SAPJ2E  
Database Host TH03S001 Character Set WE8DEC  
Database Home J2E920

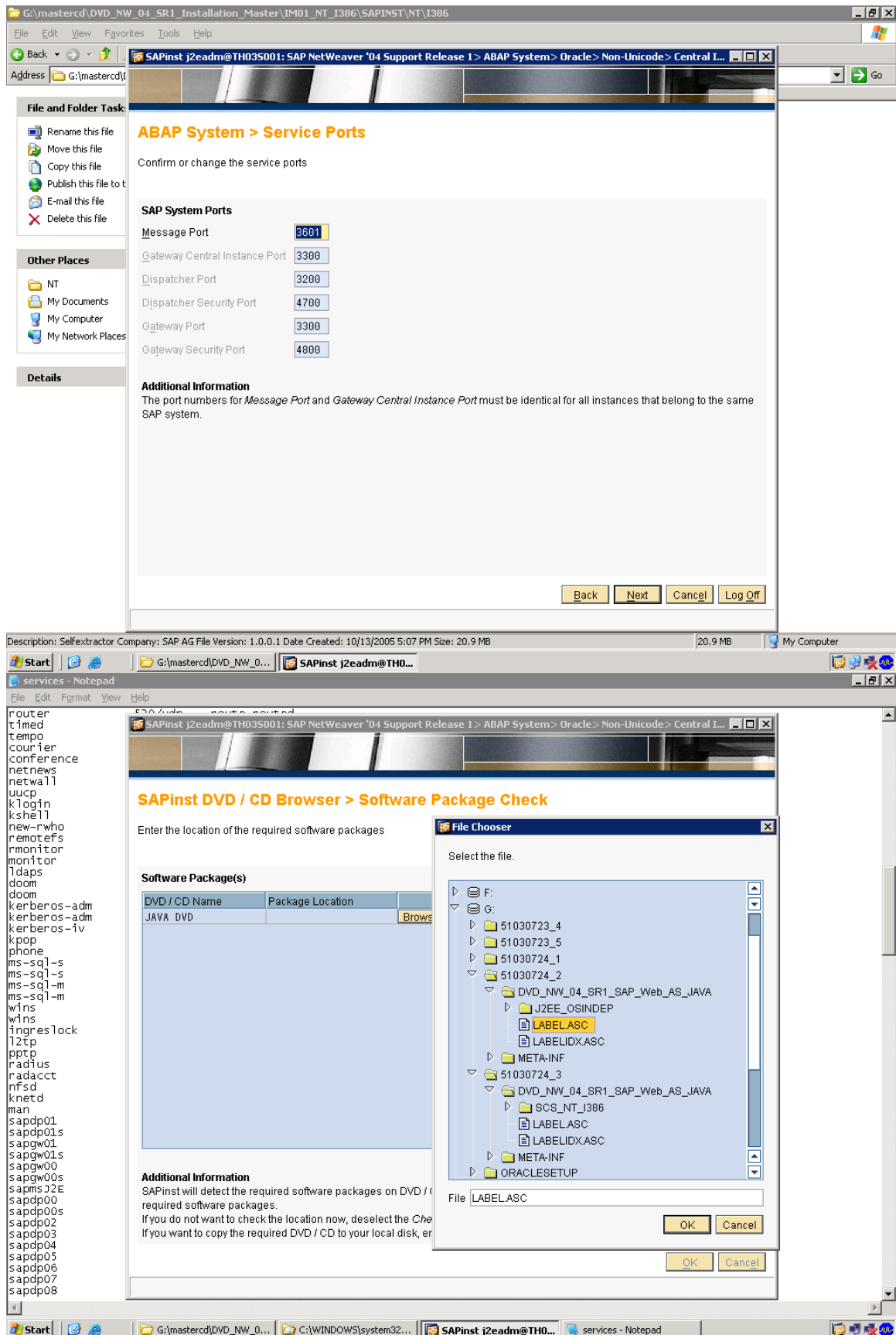
Back Next Cancel Log Off

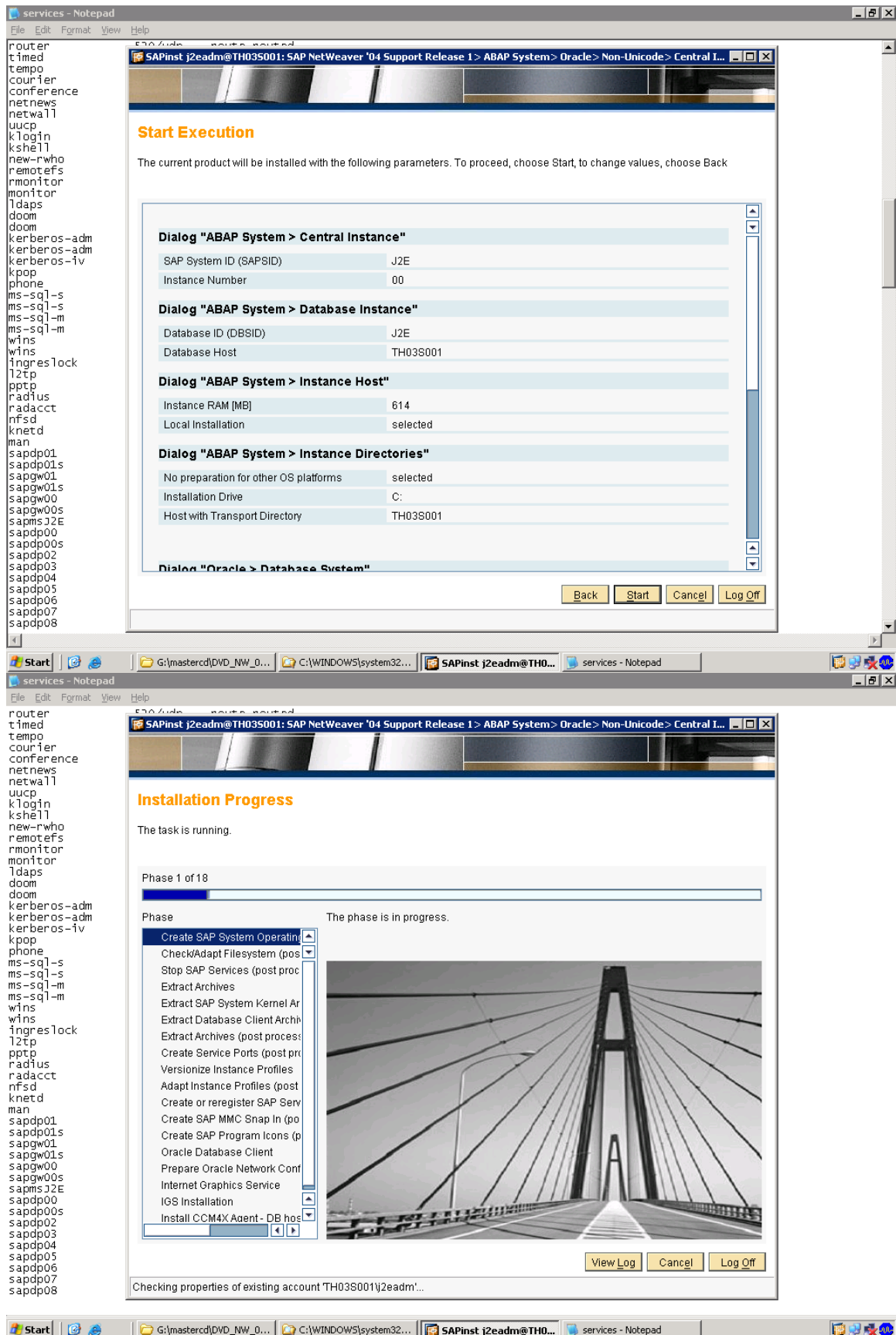
Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB

Start G:\mastercd\DVD\_NW\_0... SAPinst j2eadm@TH0...

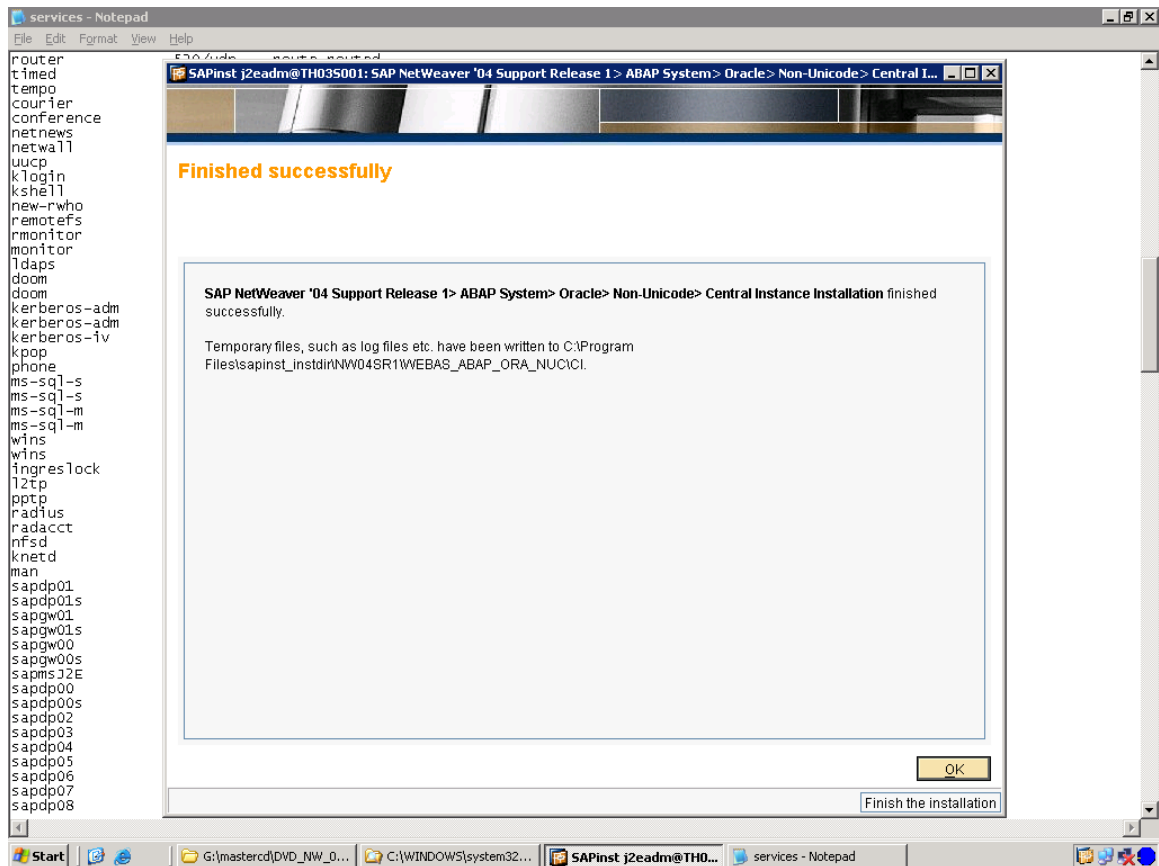




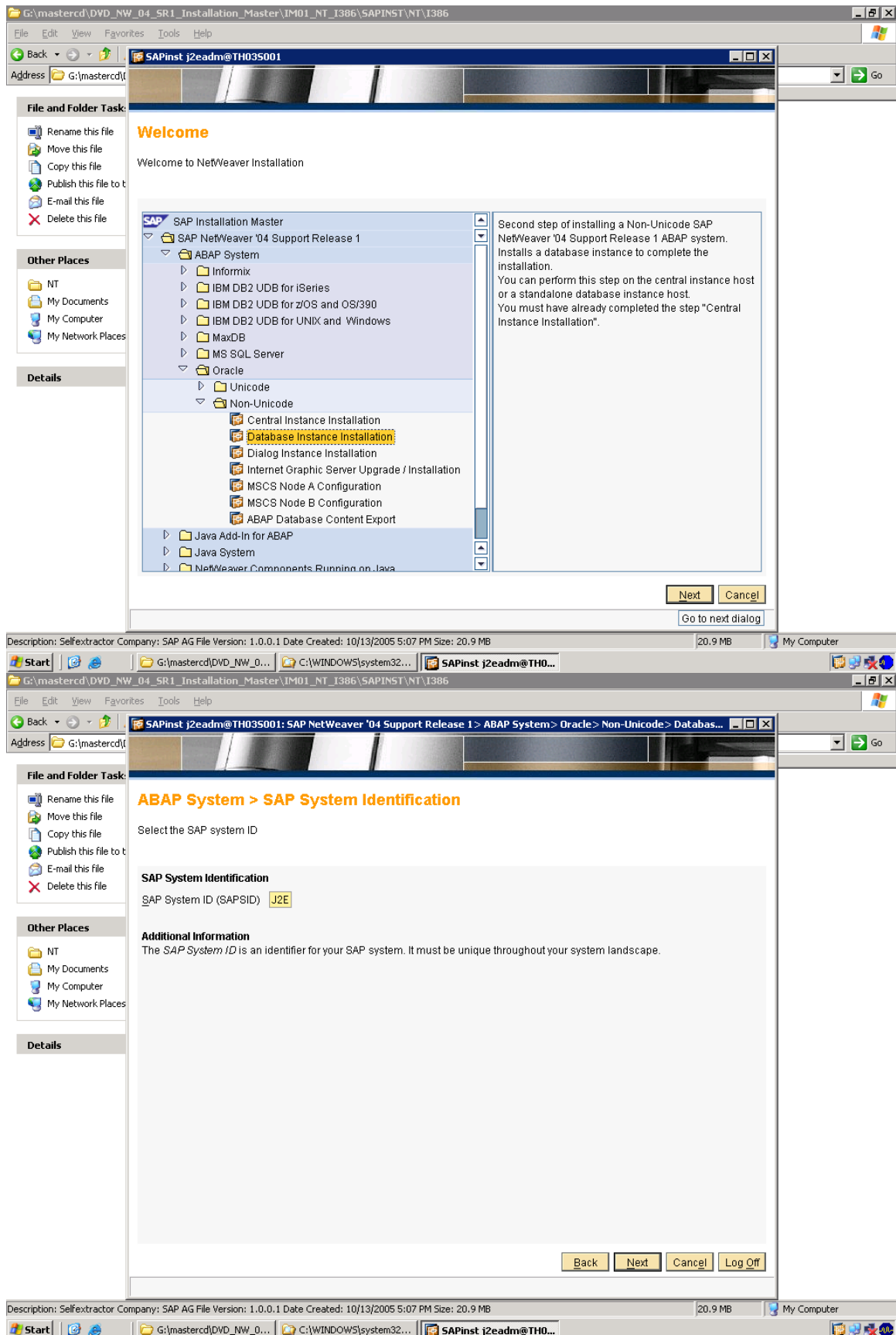








after kernel abap database  
now database installation





G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**ABAP System > Database Instance**

Enter the database parameters

**SAP System Identification**

SAP System ID (SAPSID) J2E

**Database Parameters**

Database ID (DBSID) J2E

Database Host TH03S001

**Additional Information**

The SAP System ID and Database ID are identifiers for your SAP system. They must be unique throughout your system landscape. If you want to use an existing database with a valid database release for this installation, enter the database ID and host of the existing database.

Back Next Cancel Log Off

Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB 20.9 MB My Computer

Start C:\WINDOWS\system32... SAPinst j2eadm@TH0...

G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**ABAP System > Central Instance**

Enter the central instance parameters

**SAP System Instance Identification**

SAP System ID (SAPSID) J2E

Instance Number 00

Instance Host TH03S001

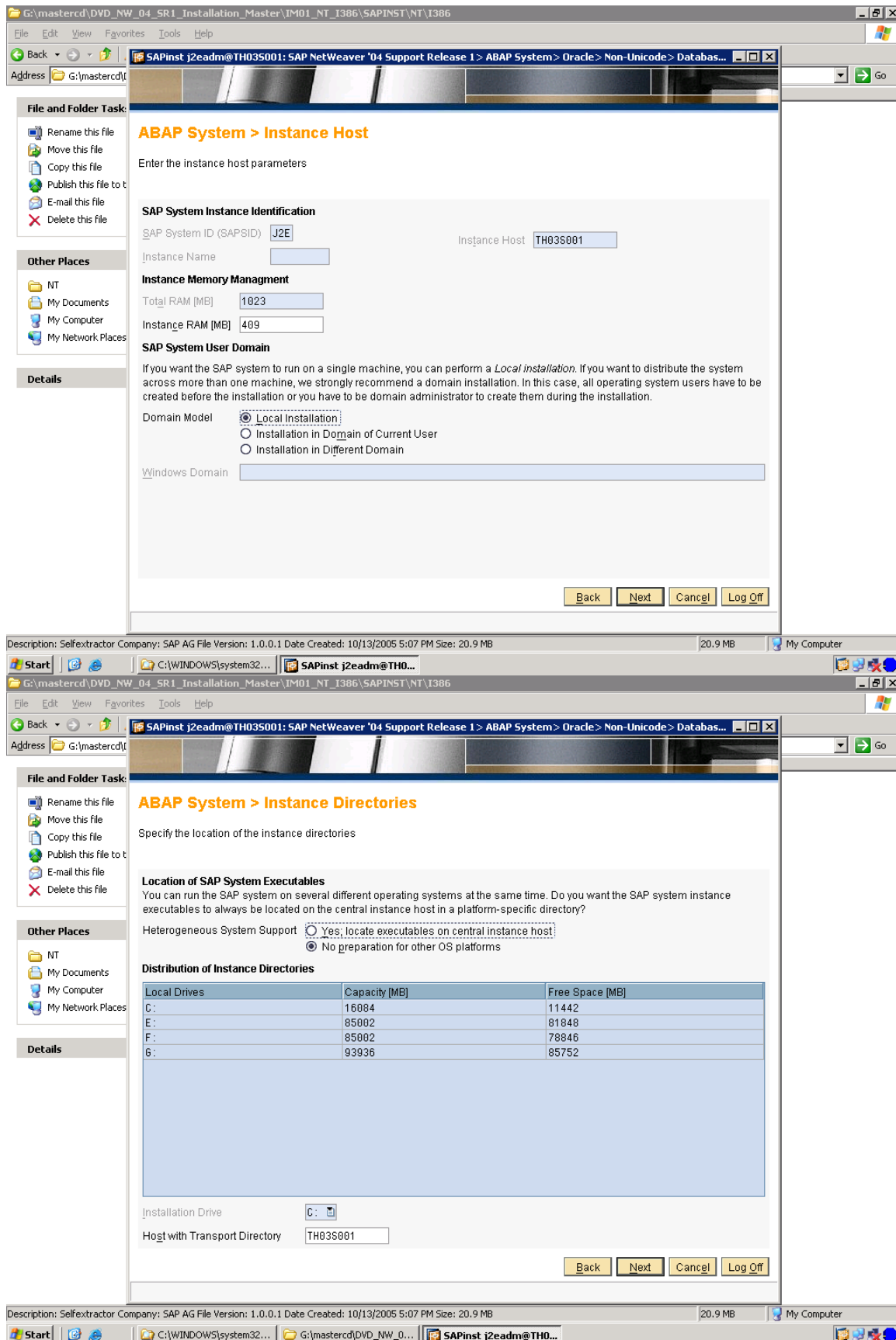
**Additional Information**

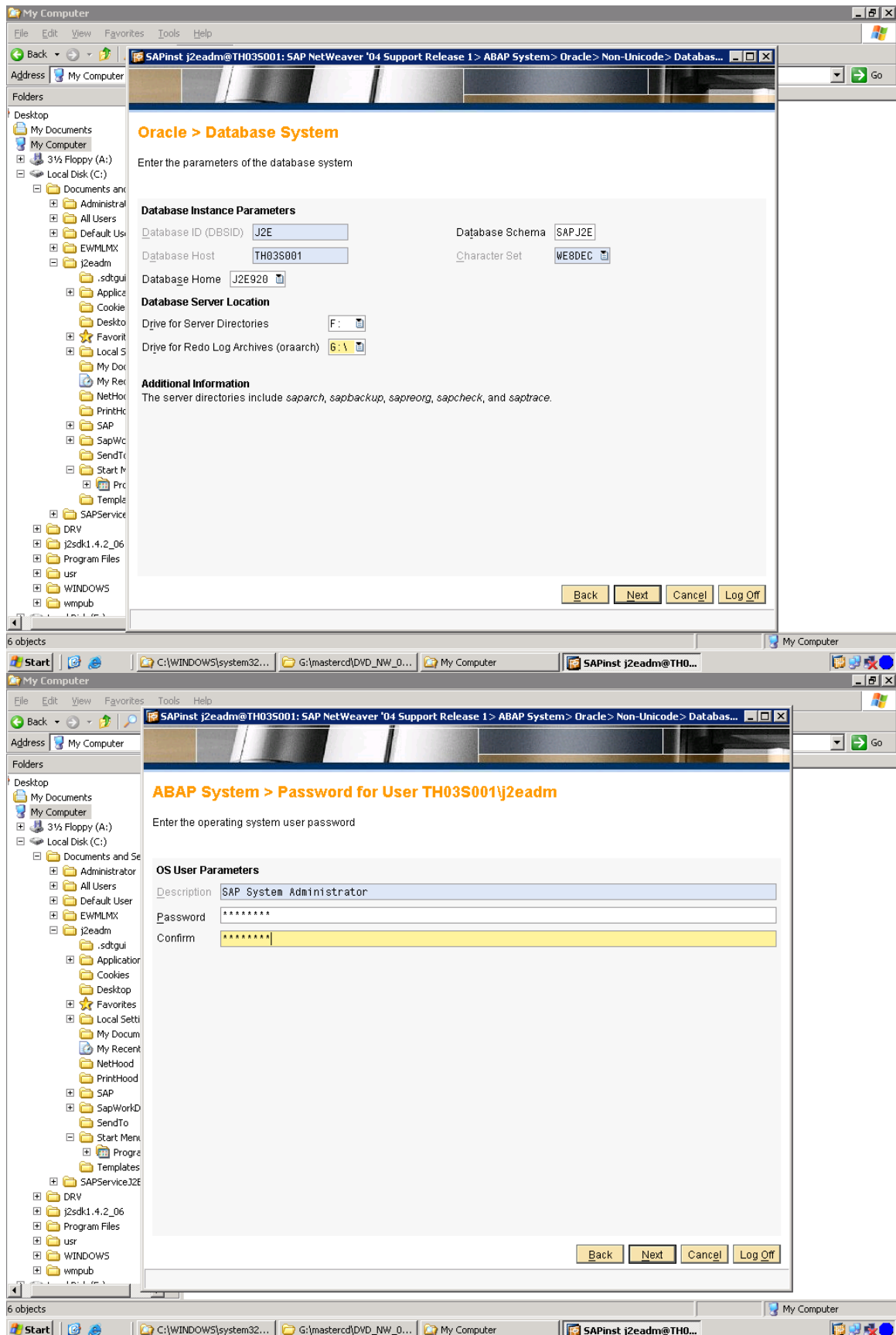
The ABAP central instance requires an instance number as a technical identifier for internal processes. This number must be unique for this installation host. The instance-specific port number is required as a unique communication channel.

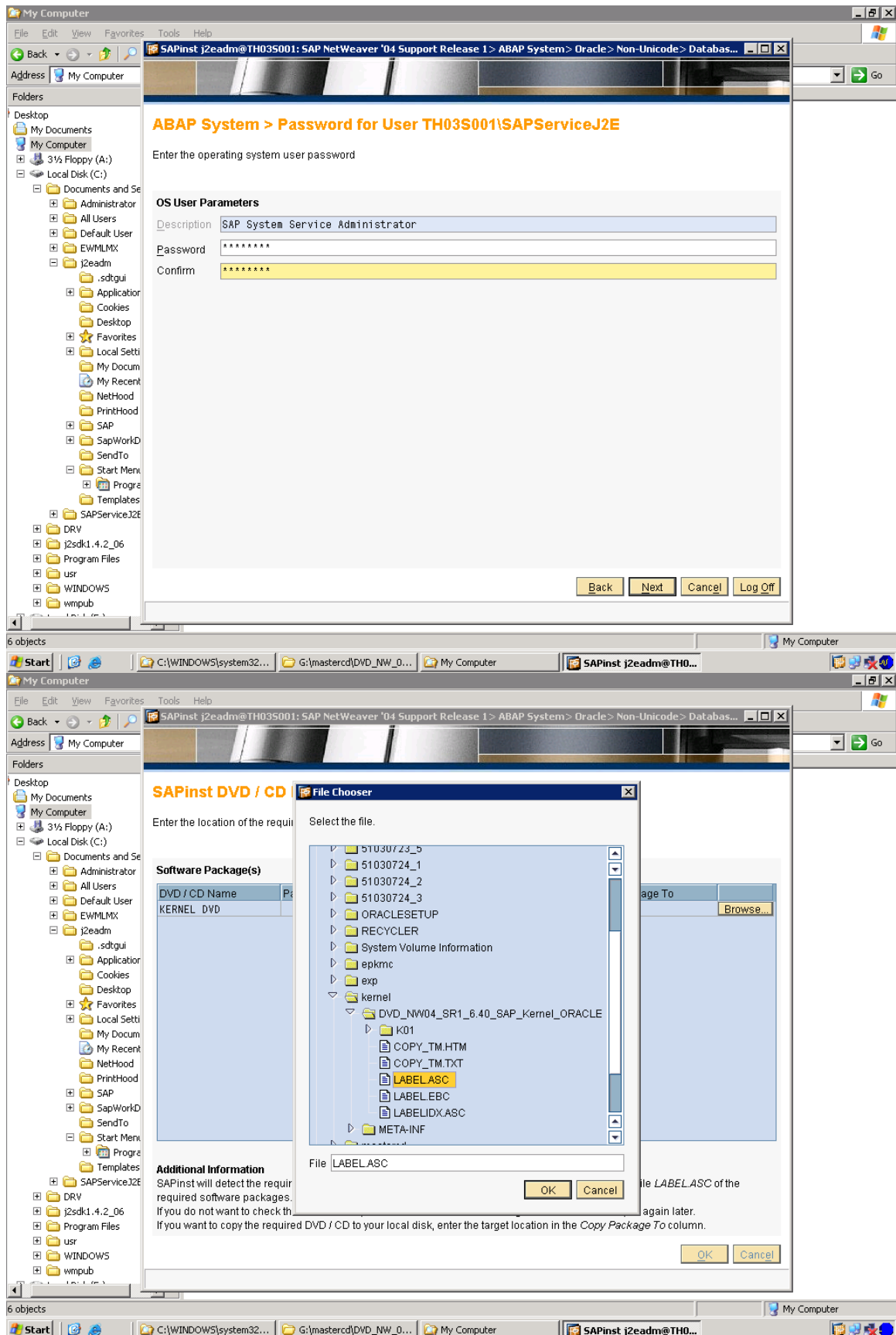
Back Next Cancel Log Off

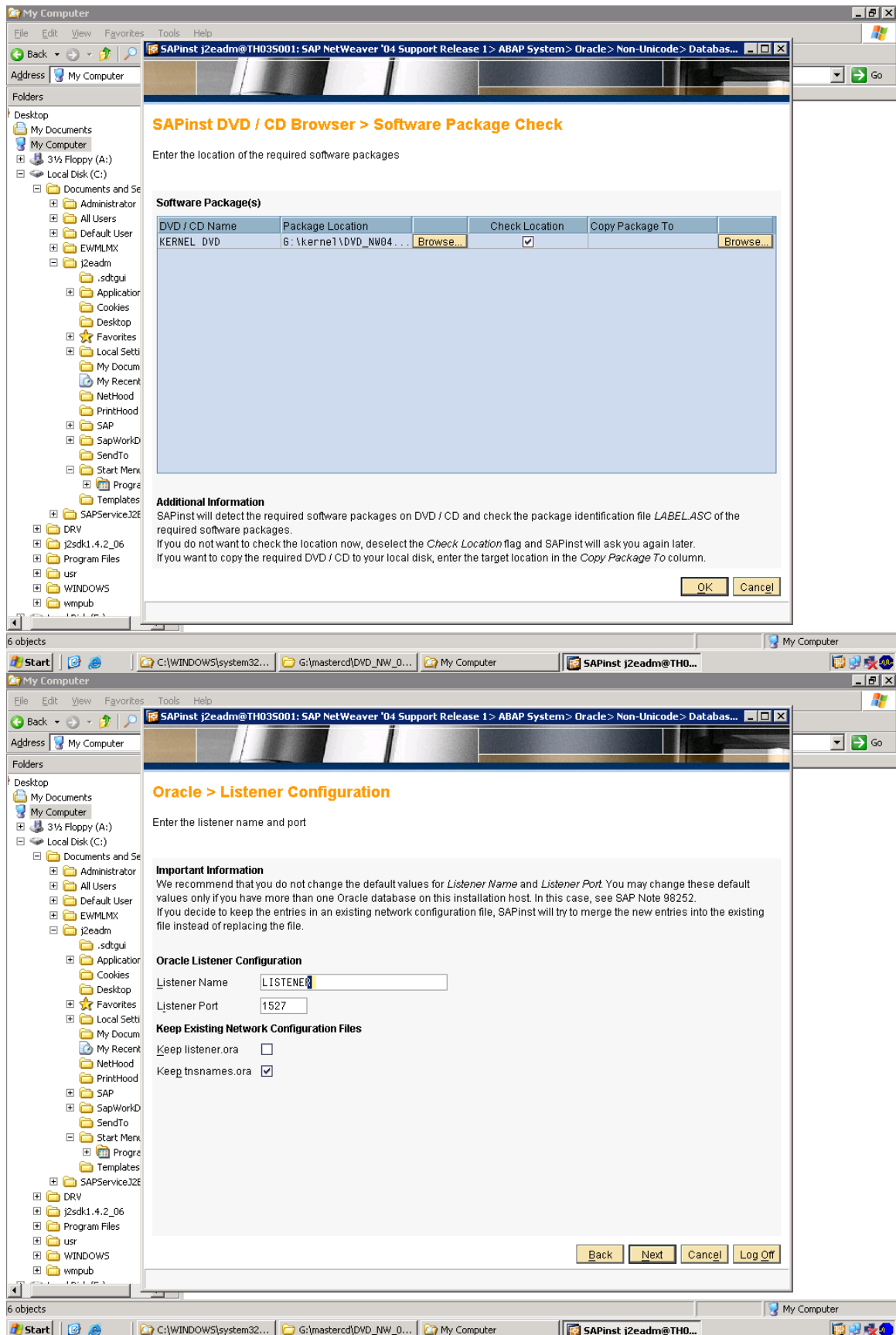
Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB 20.9 MB My Computer

Start C:\WINDOWS\system32... SAPinst j2eadm@TH0...

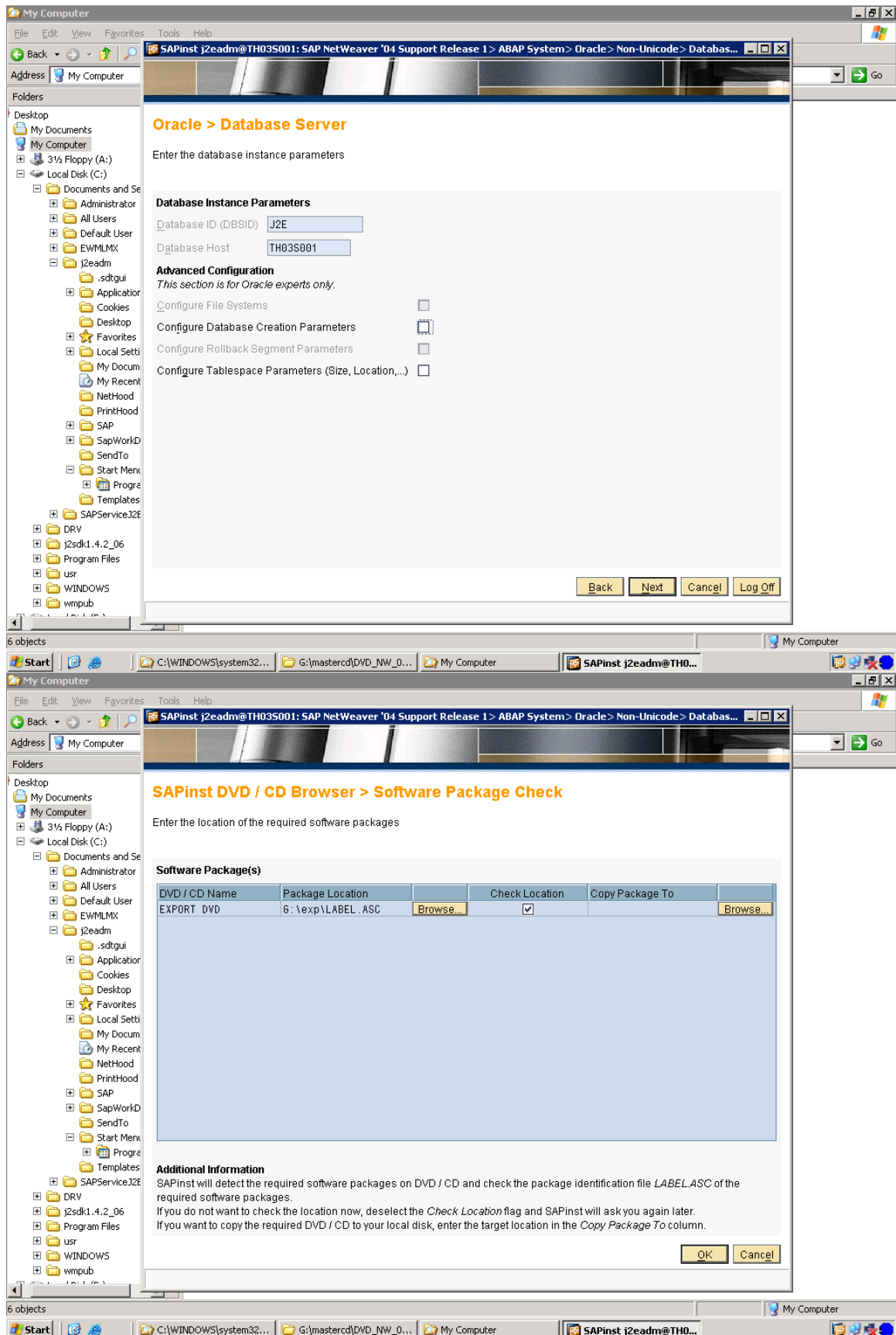


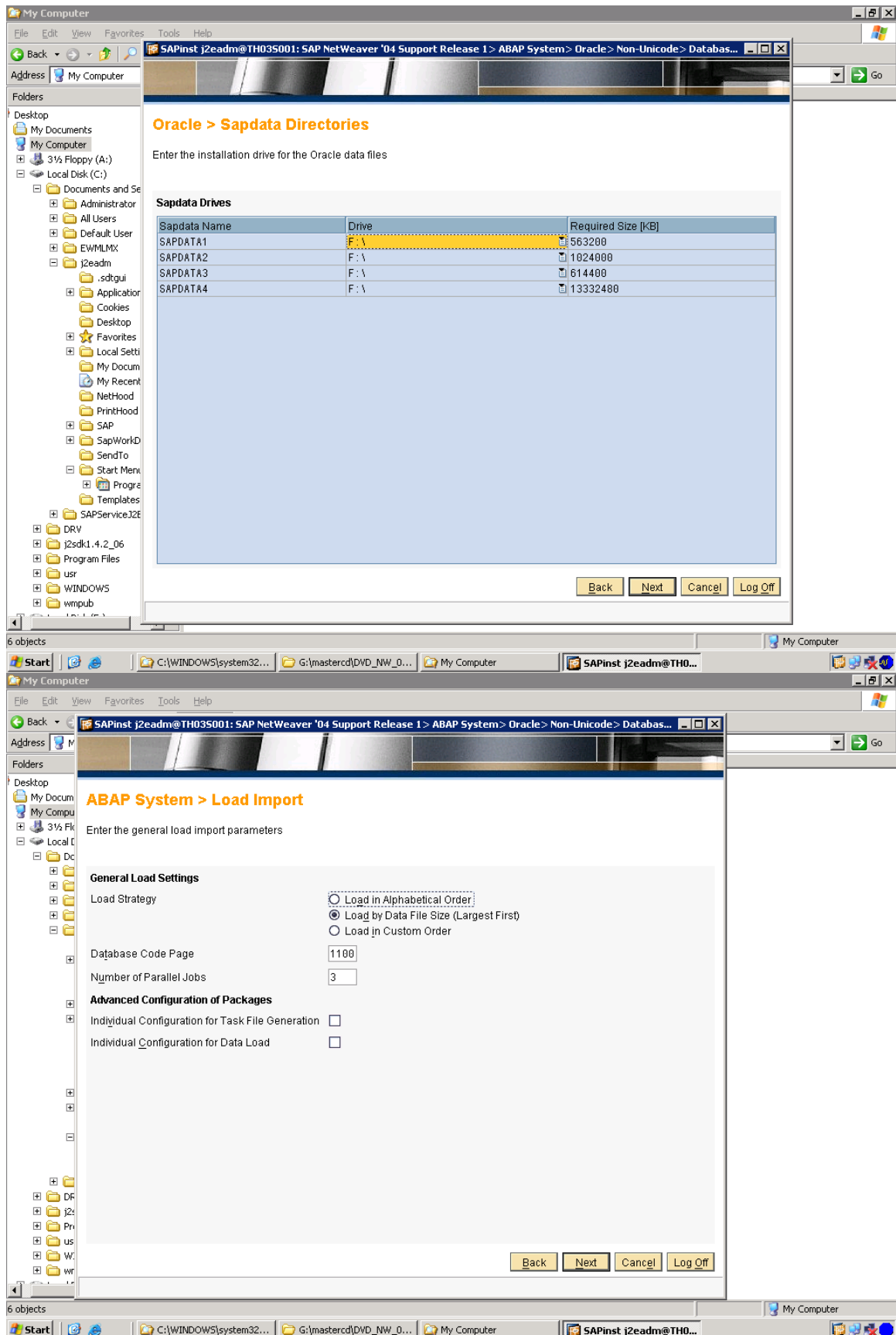


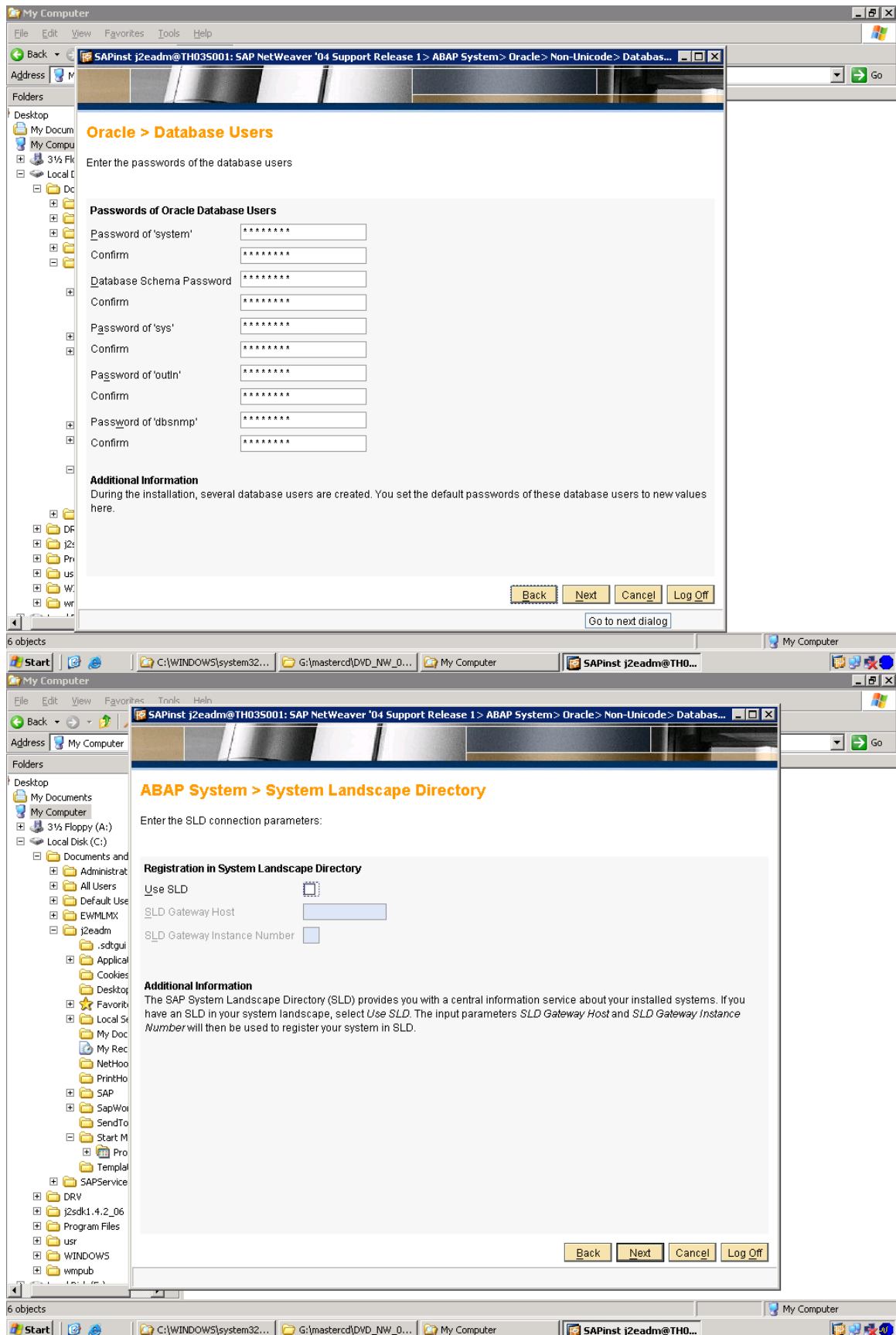


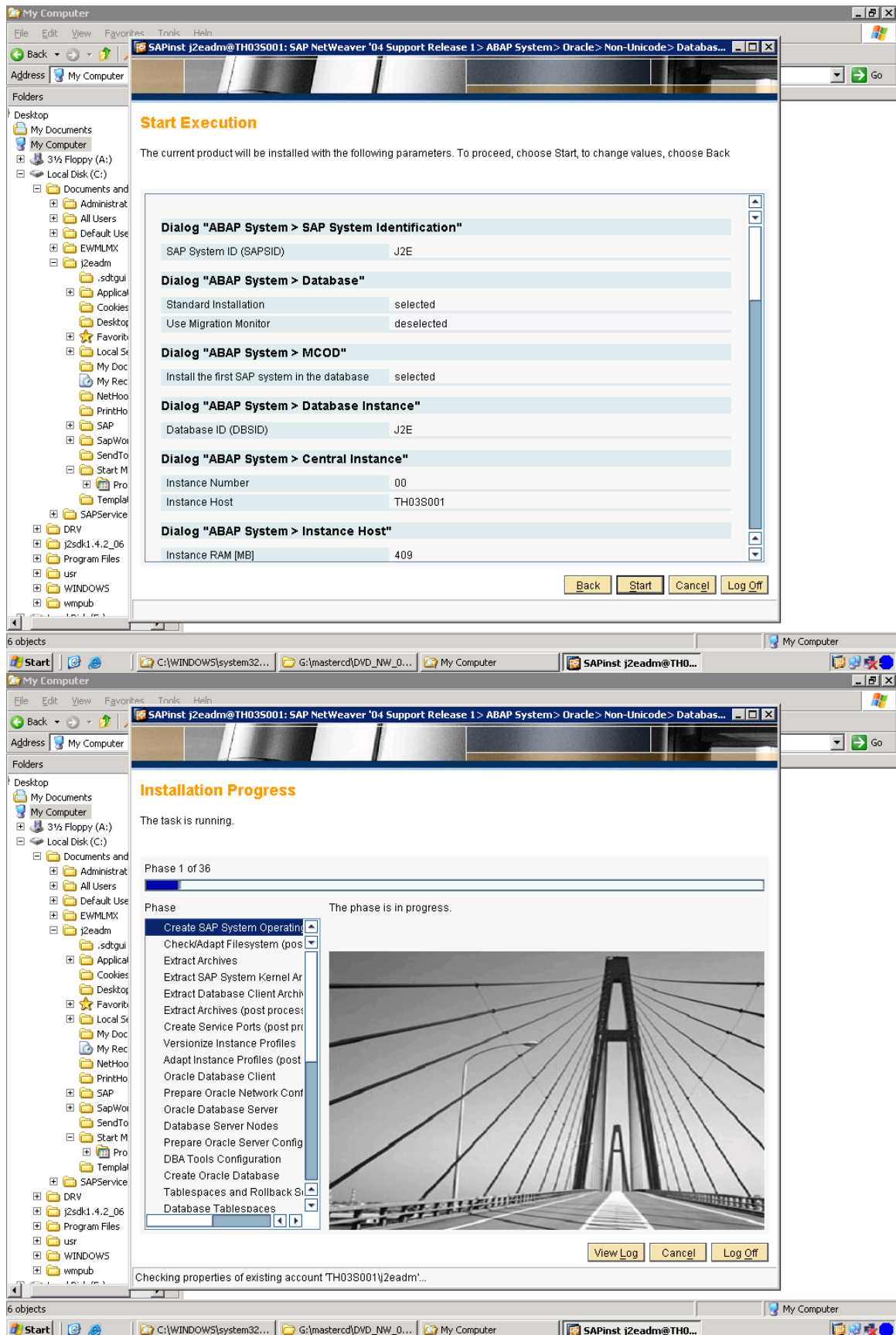


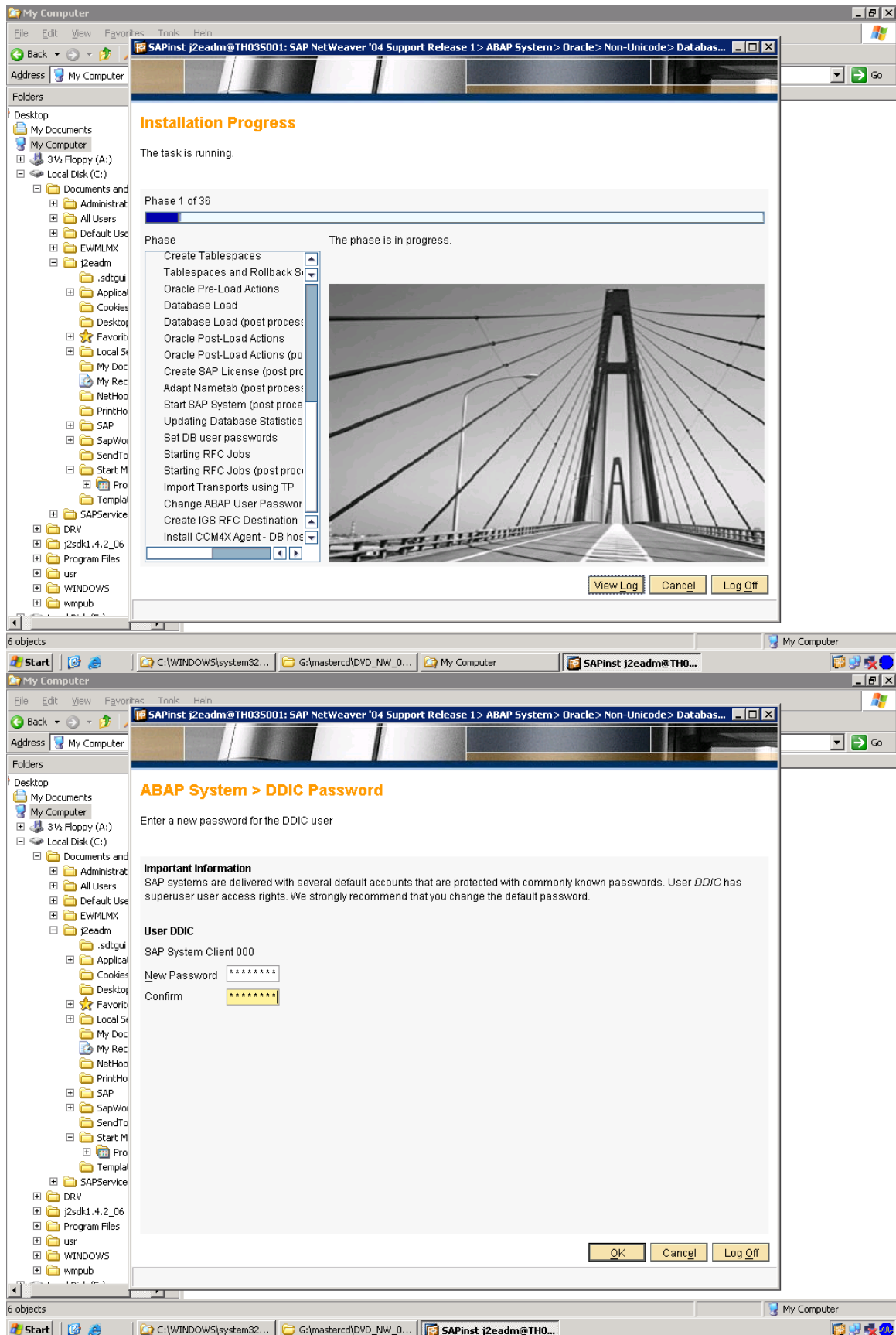


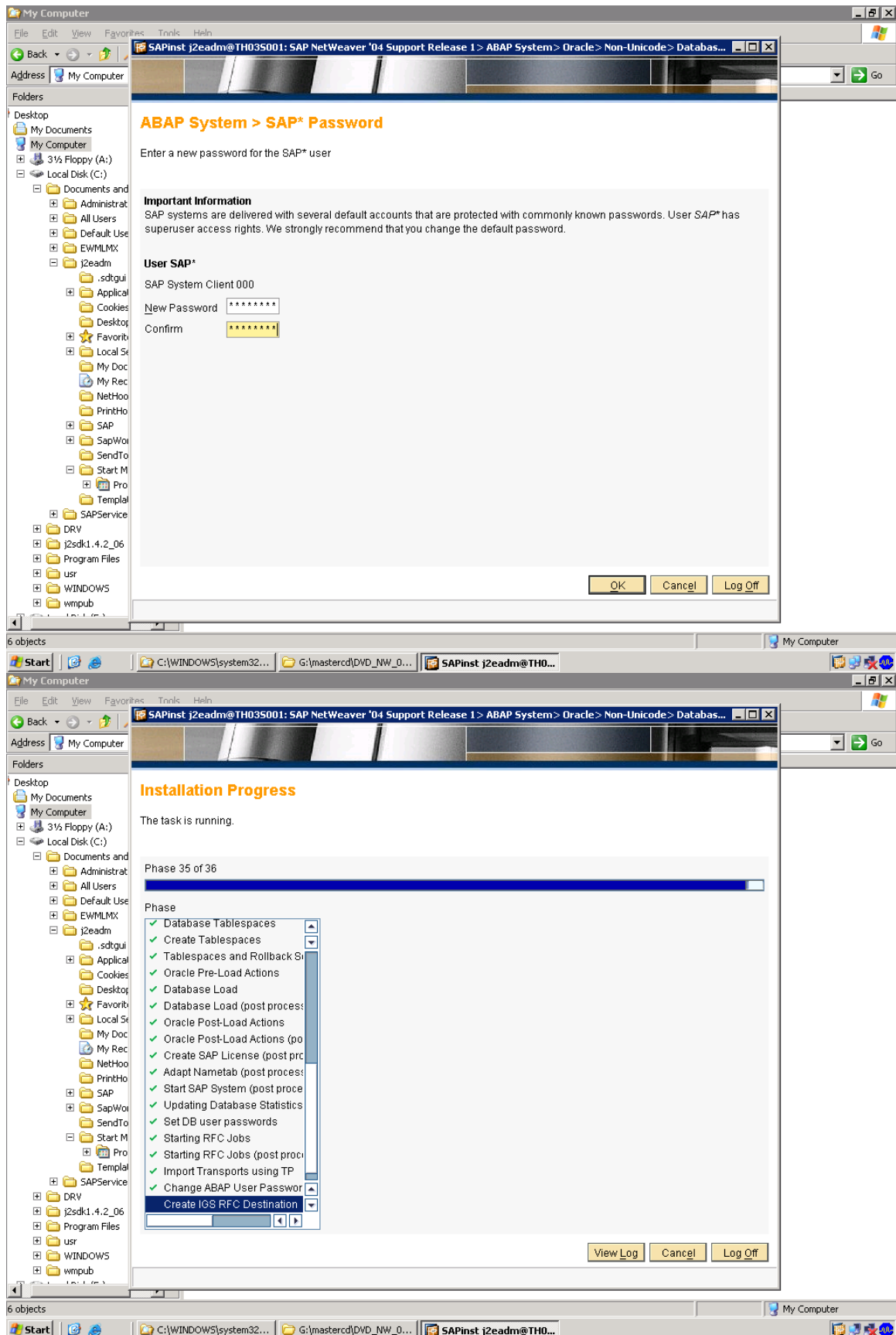


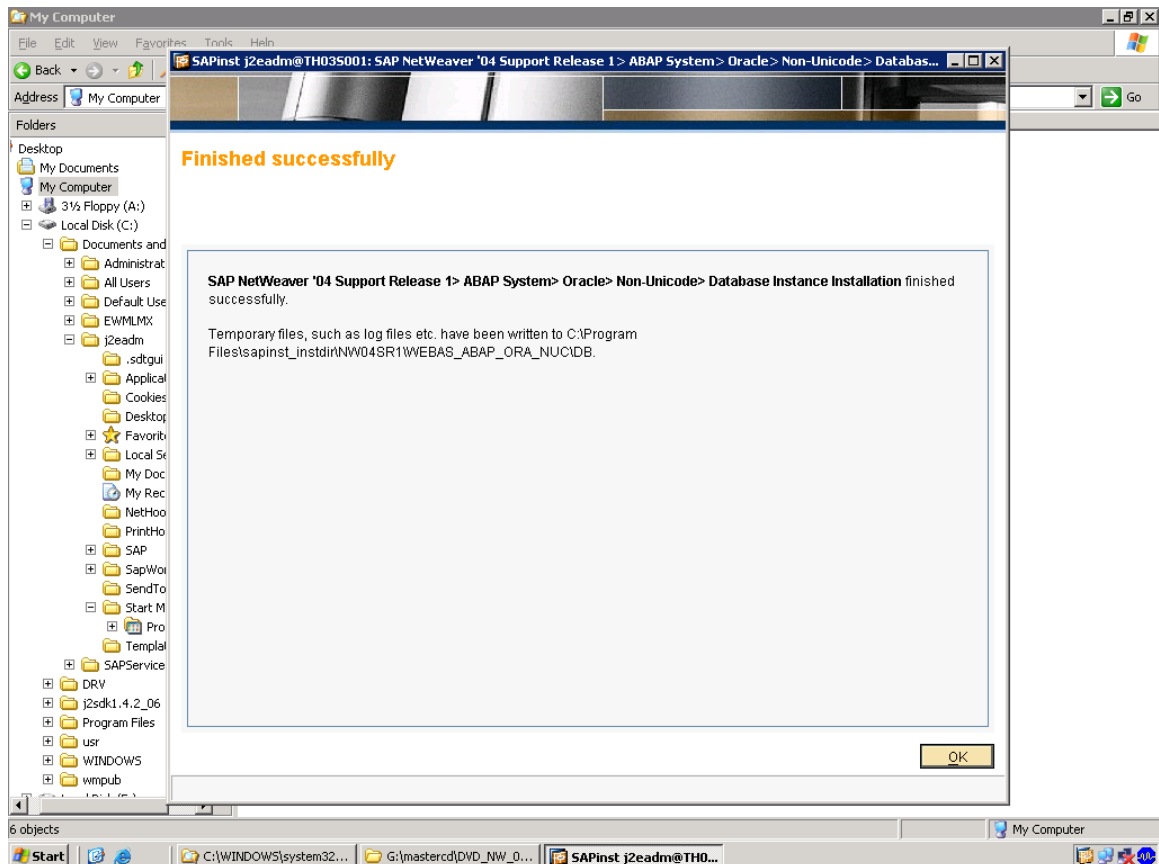












This installs ABAP DATABASE

FOR XI u need ABAP + J2EE

BEFORE ADDING J2EE ADDIN , do the client copy

You can install three main server components. This section provides an overview of the implementation requirements and procedures.

#### Overview of Allowed Installation Hosts

Components	UNICODE SAP Web AS ABAP + Java 6.40 SR1*	Business System Environment
SAP Exchange Infrastructure	X	-
Adapter Engine	X**	X***
Plain J2SE Adapter Engine	X	X****

\* The following installation types are supported: Central System (Central Instance and Database Instance on one host), Standalone Database System (Central Instance and Database Instance on separate hosts), Dialog Instances for ABAP and Java

\*\* Automatically installed with the *SAP Exchange Infrastructure*

\*\*\* Java only (SAP Web AS Java 6.40 SR1 system) is a prerequisite

\*\*\*\* For none Web AS Java environments



**Checking Central Instance Profile Settings** Check and adapt if necessary the following settings in the central instance profile: 1. On your SAP Web AS host open the central instance profile with a text editor. As an alternative you can use transaction *RZ10* to maintain profiles. The default path is: `/usr/sap/<SAPSID>/SYS/profile/<SAPSID>_DVEBMGS<instance_number>_<hostname>`

On Windows: If the parameter **EXTBIND=1** exists, delete this parameter (but not the whole line). For example, `icm/server_port_0 = PROT=HTTP,PORT=8000,EXTBIND=1`  
Save your settings.  
Restart the SAP system (`stopsap R3 / startsap R3`).

Log on to your SAP system.

6. Run transaction *SMICM* to check if the ICM and the HTTP service is running:

a. In the *ICM Monitor* screen, check if the *ICM status* field displays a running state (= green bullet)

b. Choose *Goto* → *Services*.

The *ICM Monitor- Service Display* screen appears.

Check if the HTTP service is up and running (column *Active* is signed with a green hook)

Client for SAP Exchange Infrastructure is Created You generate the client using the client copy procedure from the source client 000 as described in the documentation Installation Guide – Unicode SAP Web AS 6.40 on <OS>: <Database>, section Client Copy. a. Perform the client copy before installing the J2EE engine. During the J2EE engine installation you specify the client derived from the client copy. b. Perform the client copy at least with a profile SAP\_UCSV that copies also user roles and authorization profiles, which are contained in client 000. c. If you already installed the J2EE engine on client 000, copy the client and change the configuration according to the task below, so that the engine settings point to the copied client.

### Configuring the J2EE Engine

1. Start the Visual Administrator of the J2EE engine.

`I:\usr\sap\A11\DVEBMGS00\j2ee\admin`

Click on `go.bat`



## Configuring the J2EE Engine

1. Start the Visual Administrator of the J2EE engine.

usr\sap\j2e\dvebmsg00\j2ee\admin\----go.bat

2. Do the following in the Visual Administrator:

Task	How to
Check if the client for the User Management is set correctly. This may be not the case, if you have performed a client copy after installing the J2EE engine for the SAP Web AS.	<ol style="list-style-type: none"><li>1. In the left frame choose <i>Server</i> → <i>Services</i> → <i>Configuration Adapter</i></li><li>2. In the tab Display Configuration (right frame) choose <i>Switch between view and edit mode</i> to activate the edit mode.</li><li>3. Choose <i>cluster_data</i> → <i>server</i> → <i>cfg</i> → <i>services</i> → <i>Property sheet com.sap.security.core.ume.service</i></li><li>4. Choose Show the detail of the selected <i>node</i></li><li>5. The parameter <i>ume.r3.connection.master.client</i> must be set to your SAP Exchange Infrastructure client. Adapt the value if necessary.</li></ol>
Adapt memory configuration for the J2EE server	<ol style="list-style-type: none"><li>1. In the left frame choose <i>Server</i> → <i>Services</i> → <i>Configuration Adapter</i></li></ol>

2. Choose *cluster\_data* → *PropertySheet instance.properties.ID...*
3. Choose *Show the detail of the selected node*
4. The parameter *ID...MaxHeapSize* for **server0** must be set according to your platform:
  - On IBM iSeries: Set the value to 3072 .
  - Other platforms: Set the value to 1024
5. For the parameter *ID...JavaParameters* for **server0** add the following settings at the beginning of the existing properties settings:



Never use this **-XX** parameter for IBM or Compaq JDKs.

**-XX:MaxPermSize=128M** <existing settings>...  
(at least 128M)



You have to perform this step for all instances on the server.

#### Adapt Thread settings

1. In the left frame choose *Server* → *Services* → *Configuration Adapter*
2. In the tab *Display Configuration* (right frame) choose *Switch between view and edit mode* to activate the edit mode.
3. Choose *cluster\_data* → *server* → *cfg* → *kernel* → *PropertySheet ApplicationThreadManager*
4. Choose *Show the detail of the selected node*
5. The parameter *MaxThreadCount* must be set to 150. Adapt the value if necessary.

#### Adapt settings for database connection

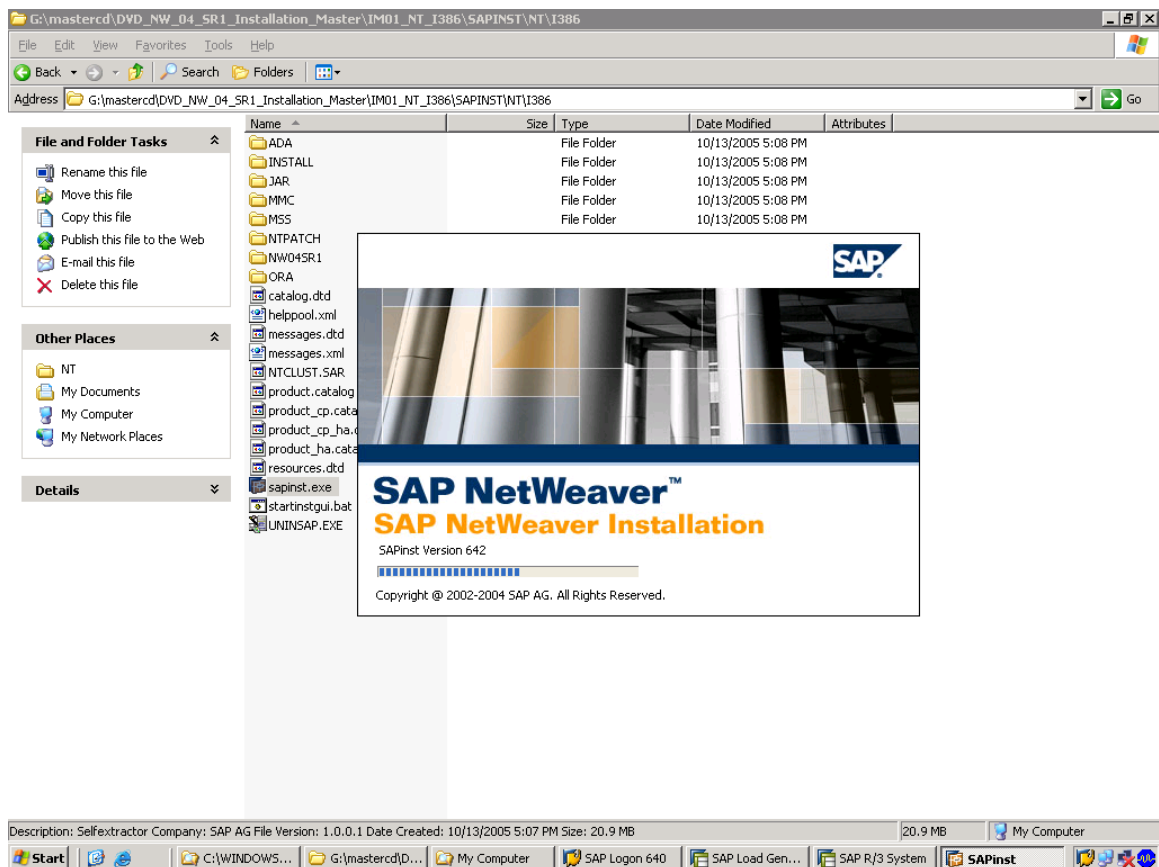
1. In the left frame choose *Server* → *Services* → *JDBC Connector*
2. Under the node *DataSources* select your database.
3. Choose the tab *Additional*
4. Enter the following values:  
*Initial Connections*: 10  
*Maximum Connections*: 100

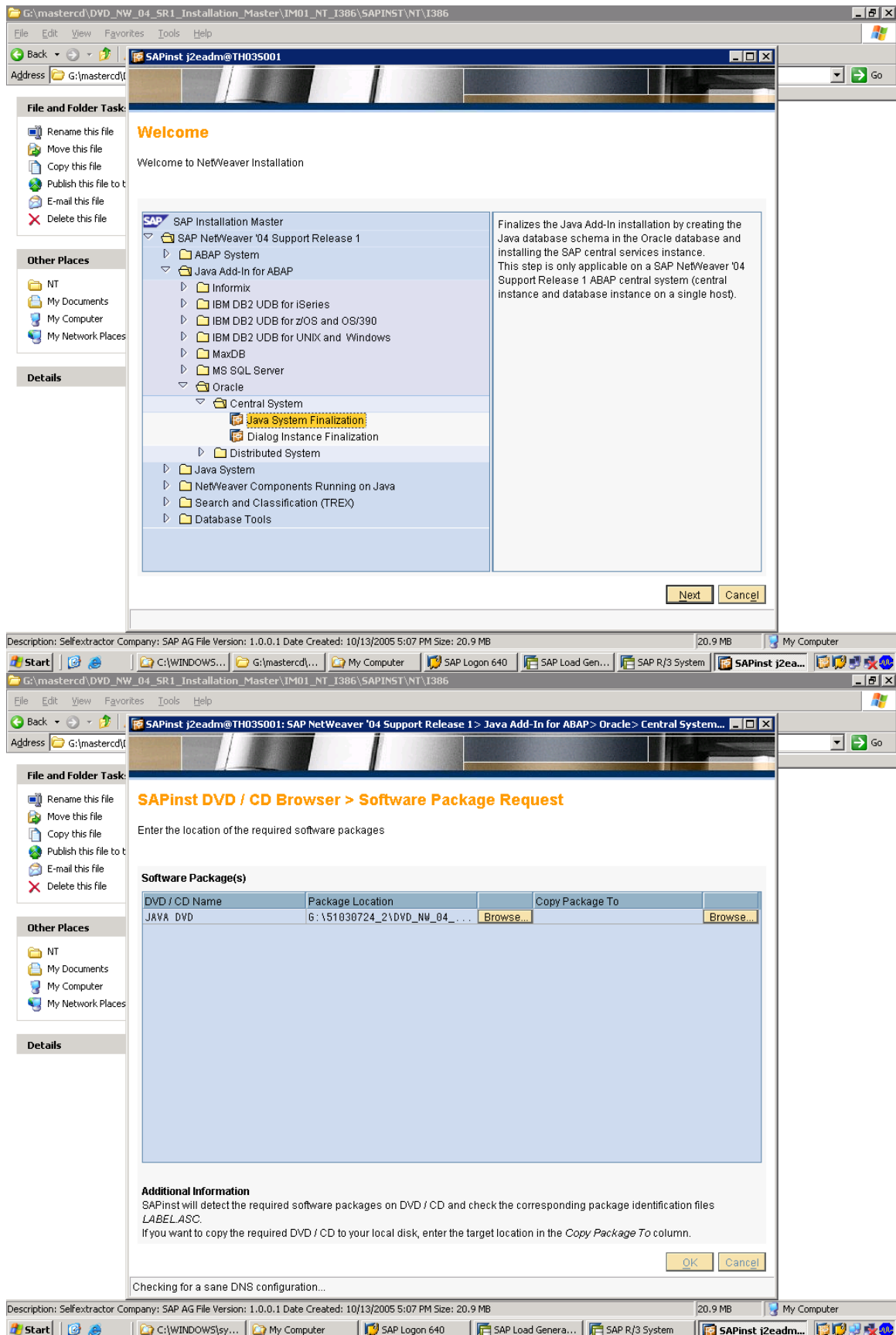
## Adapt Timeout settings

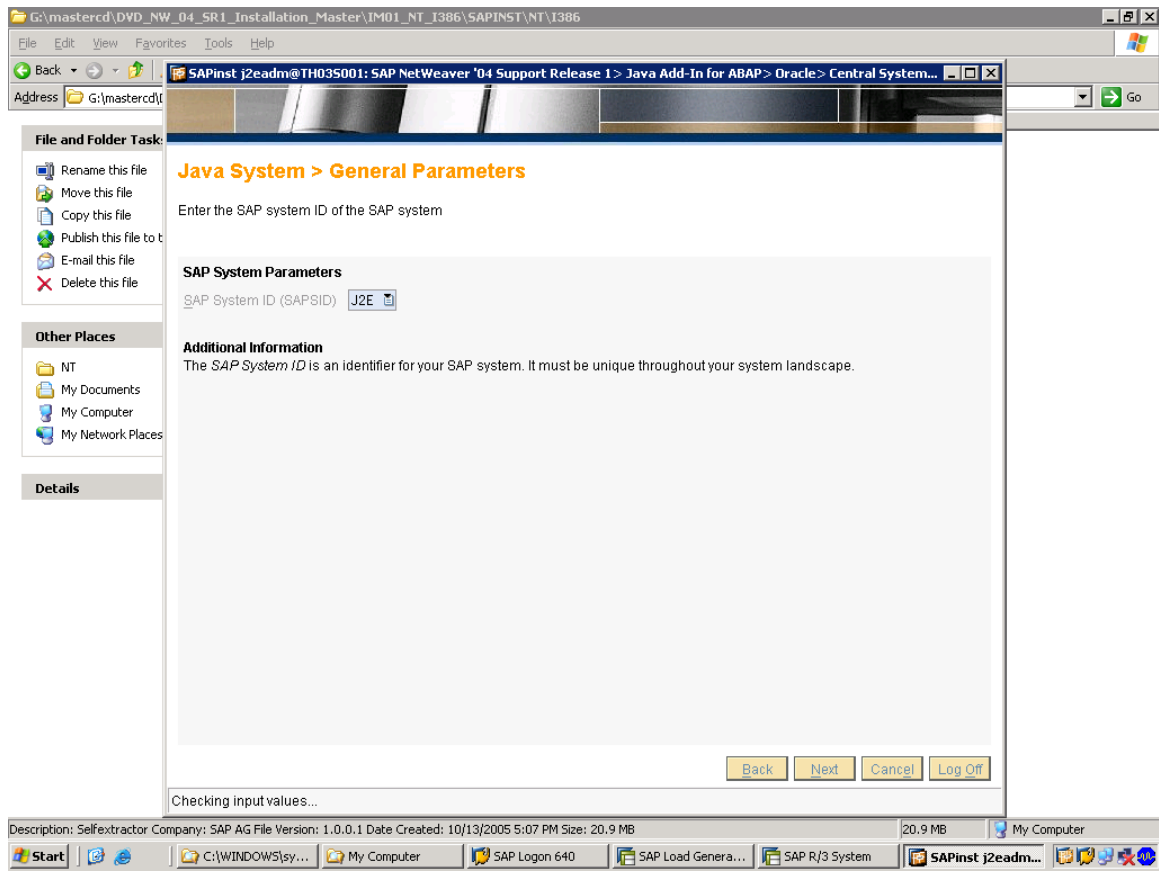
1. In the left frame choose *Server* → *Kernel* → *Service Manager*
2. The parameter *LoadTimeout* must be set according to your platform:
  - On IBM iSeries  
Set the value to 20 .
  - Other platforms  
Set the value to 5

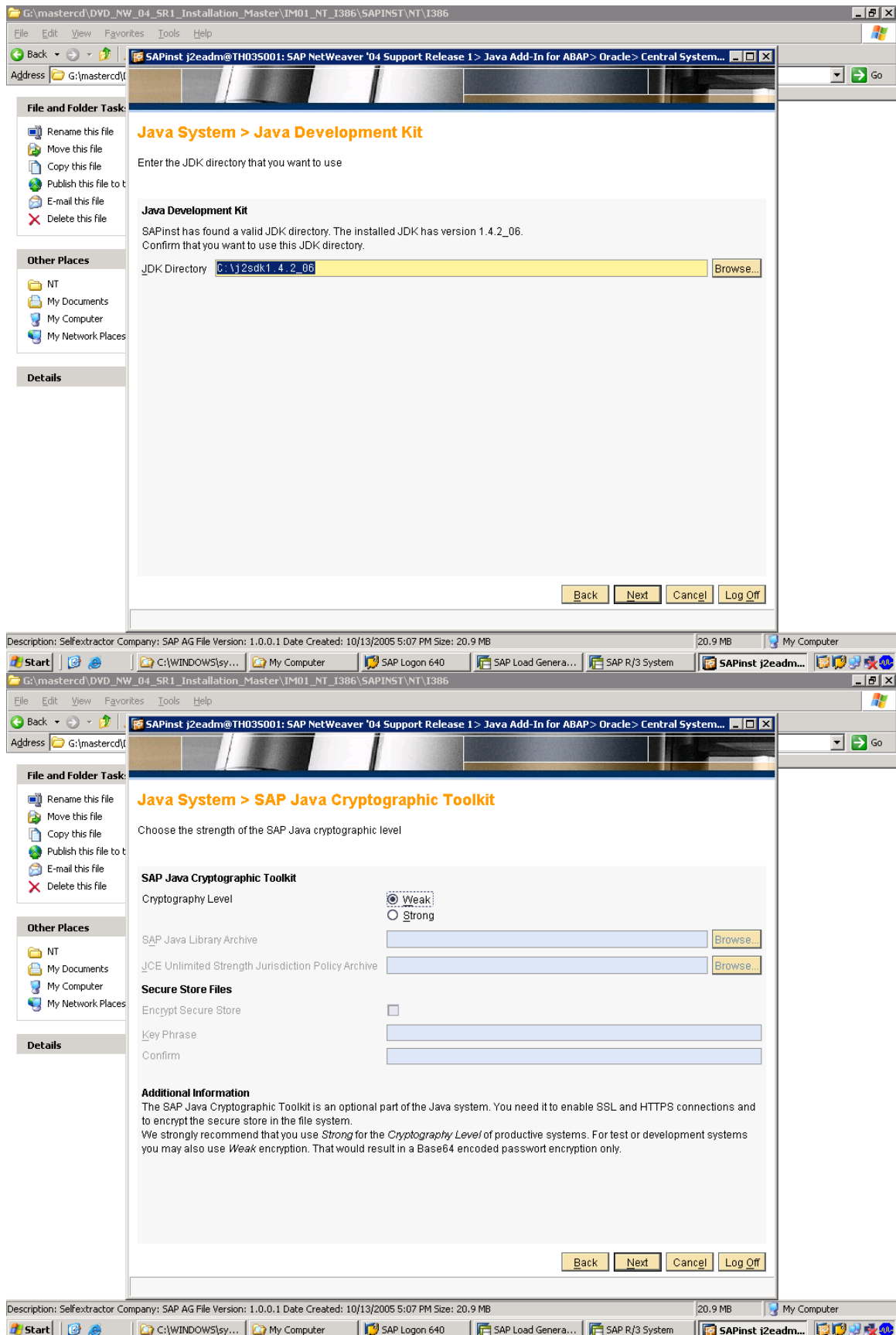
mine is 5 , IA 32 bit

Now J2EE add in after client copy.

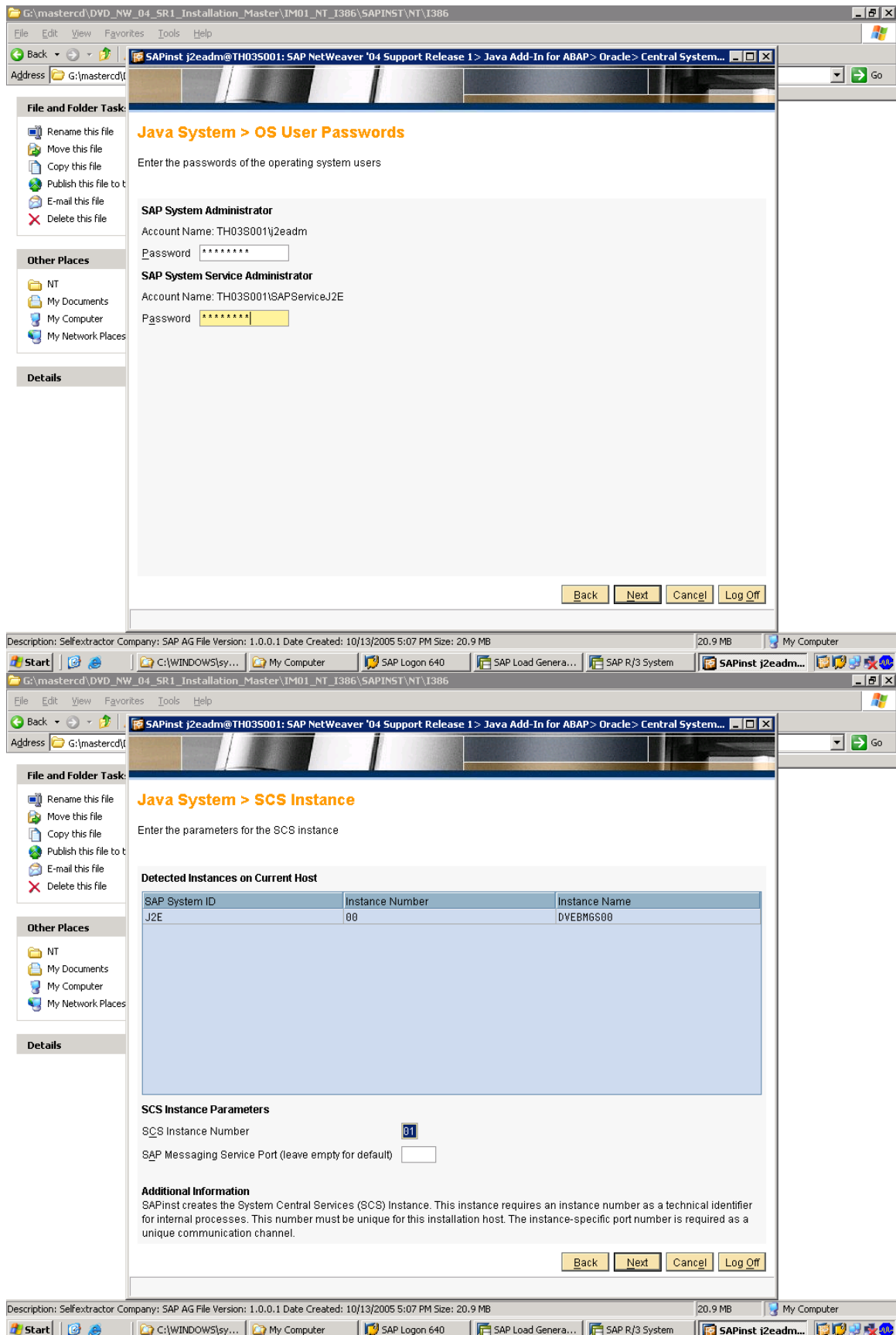




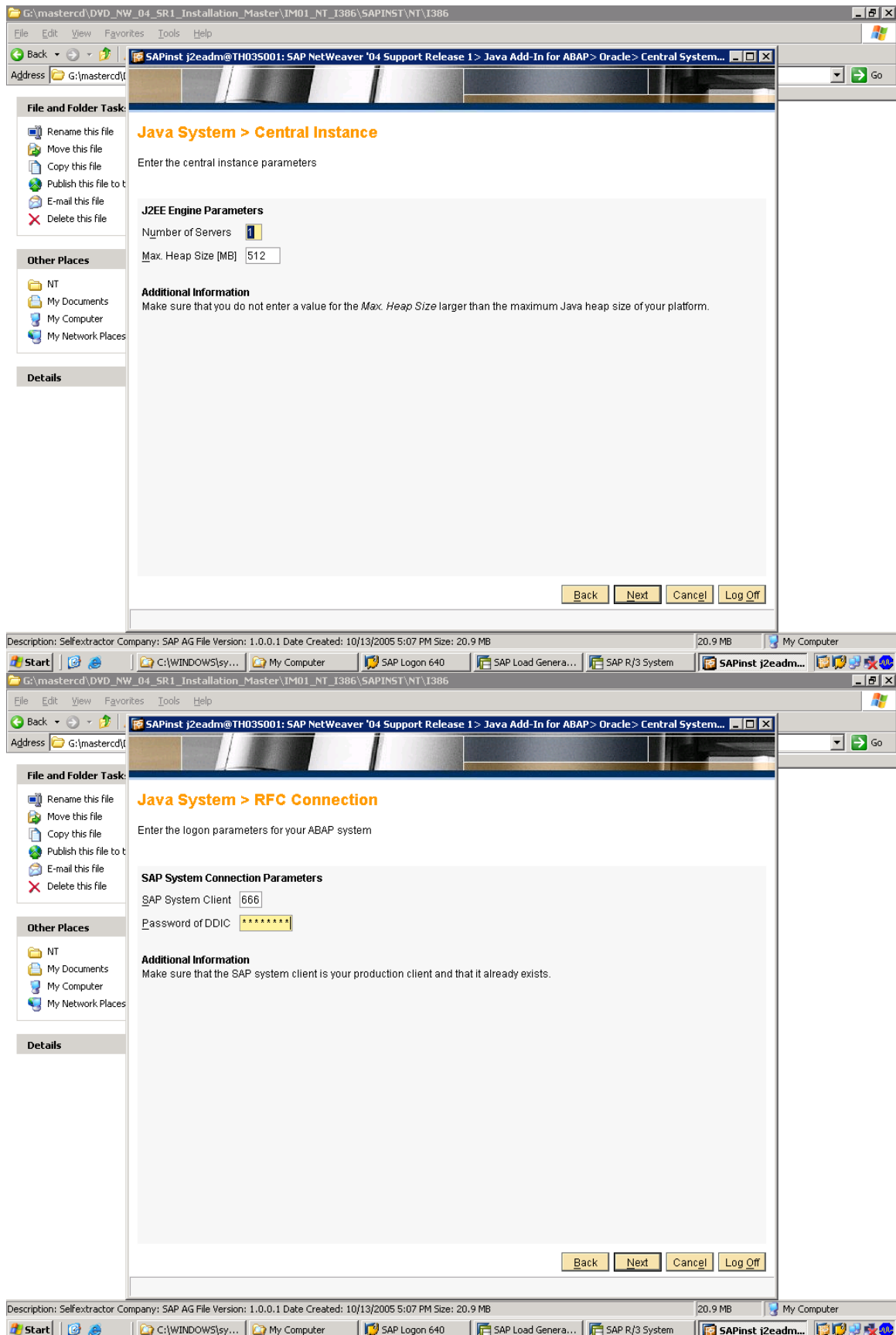




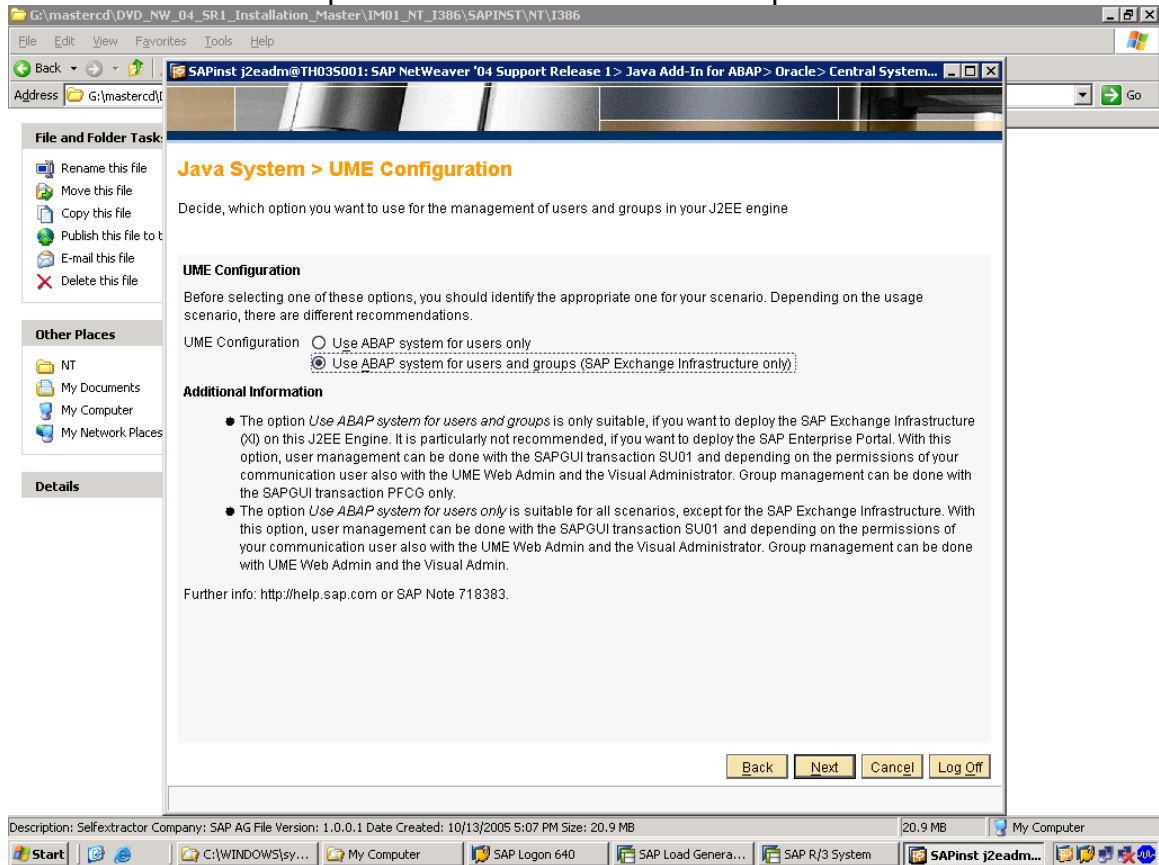








This is the connection parameter for client=666 in abap .



G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**File and Folder Tasks**

- Rename this file
- Move this file
- Copy this file
- Publish this file to t
- E-mail this file
- Delete this file

**Other Places**

- NT
- My Documents
- My Computer
- My Network Places

**Details**

### Java System > J2EE Engine Passwords

Enter the J2EE engine account parameters

**User Management for J2EE Engine**

SAPJSF Password	*****	Password of SDM	*****
Confirm	*****	Confirm	*****
J2EE_ADMIN Password	*****	J2EE_GUEST Password	*****
Confirm	*****	Confirm	*****

**Additional Information**

The ABAP user *SAPJSF* is used for RFC communication between the Java stack and the ABAP stack. The ABAP users *J2EE\_ADMIN* and *J2EE\_GUEST* represent the default administrative and anonymous users for the J2EE engine. The *J2EE\_ADMIN* account has full control of the J2EE engine. You require certain ABAP users to enable common user management for ABAP and Java. After you have entered the passwords, SAPinst creates these accounts.

Back Next Cancel Log Off

Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB

Start C:\WINDOWS\sy... My Computer SAP Logon 640 SAP Load Genera... SAP R/3 System SAPinst j2eadm...

G:\mastercd\DVD\_NW\_04\_SR1\_Installation\_Master\IM01\_NT\_I386\SAPINST\NT\I386

File Edit View Favorites Tools Help

Back Address G:\mastercd\

**File and Folder Tasks**

- Rename this file
- Move this file
- Copy this file
- Publish this file to t
- E-mail this file
- Delete this file

**Other Places**

- NT
- My Documents
- My Computer
- My Network Places

**Details**

### Java System > Database Schema

Enter the database schema password

User Name: *SAP/J2EDB* in Database *J2E* on Host *TH03S001*

Database Schema Password \*\*\*\*\*

Confirm \*\*\*\*\*

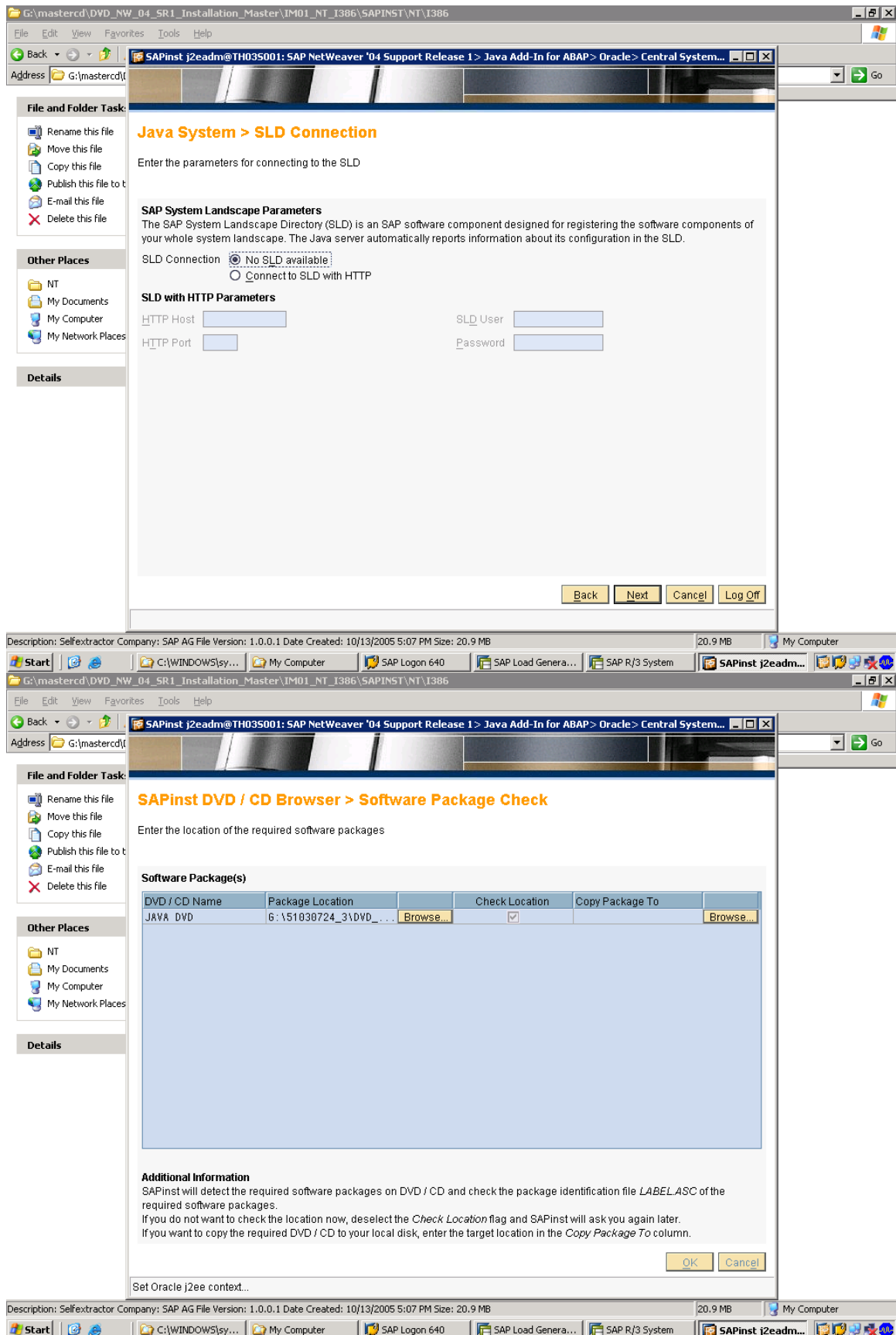
**Additional Information**

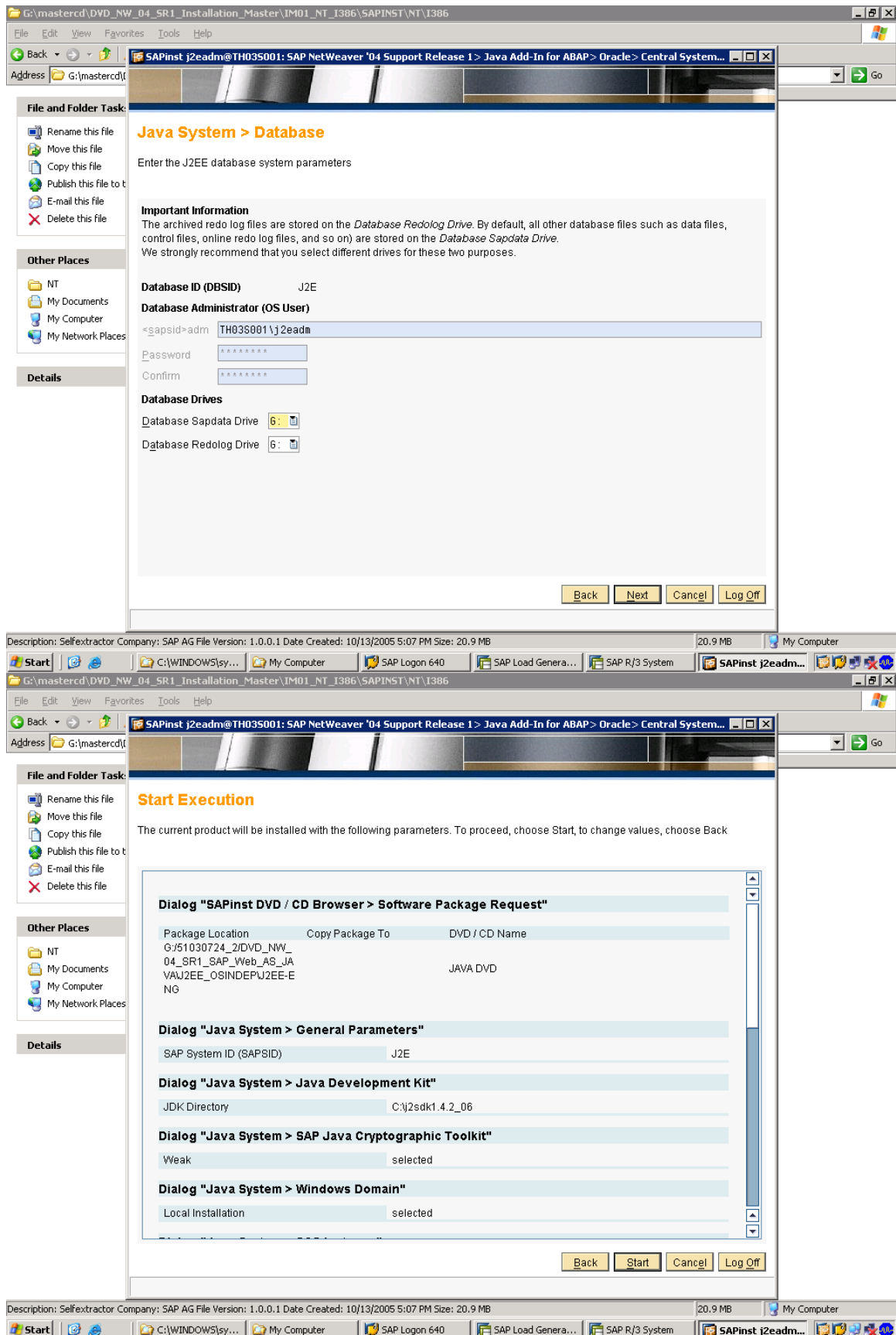
SAPinst creates the database schema *SAP<SAPSID>DB*.

Back Next Cancel Log Off

Description: Selfextractor Company: SAP AG File Version: 1.0.0.1 Date Created: 10/13/2005 5:07 PM Size: 20.9 MB

Start C:\WINDOWS\sy... My Computer SAP Logon 640 SAP Load Genera... SAP R/3 System SAPinst j2eadm...





SAPinst j2adm@TH035001: SAP NetWeaver '04 Support Release 1 > Java Add-In for ABAP > Oracle > Central System...

### Start Execution

The current product will be installed with the following parameters. To proceed, choose Start, to change values, choose Back

max. heap size [mb]

512

**Dialog "Java System > RFC Connection"**

SAP System Client666

**Dialog "Java System > UME Configuration"**

Use ABAP system for users and groups (SAP Exchange Infrastructure only)selected

**Dialog "Java System > SLD Connection"**

No SLD availableselected

**Dialog "SAPinst DVD / CD Browser > Software Package Check"**

Package Location	Copy Package To	Check Location	DVD / CD Name
G:\51030724_3\DVD_NW_04_SR1_SAP_Web_AS_JA		checked	JAVA DVD
VA\SCS_NT\1386\SCS			

**Dialog "Java System > Database"**

Database Sapdata DriveG:

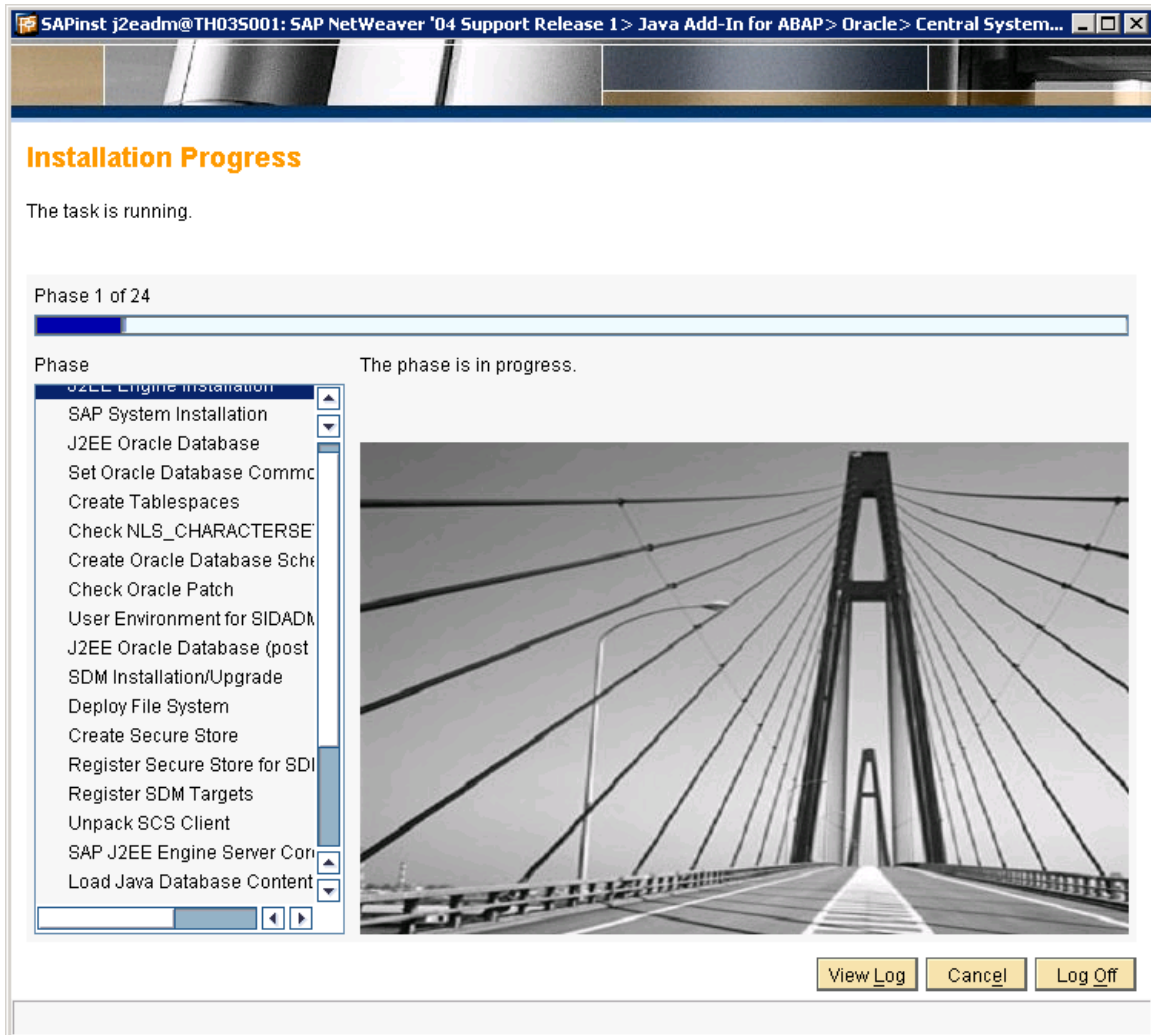
Database Redolog DriveG:

Back

Start

Cancel

Log Off



SAPInst j2eadm@TH035001: SAP NetWeaver '04 Support Release 1 > Java Add-In for ABAP > Oracle > Central System...


## Installation Progress

The task is running.

Phase 22 of 24

Phase The phase is in progress.

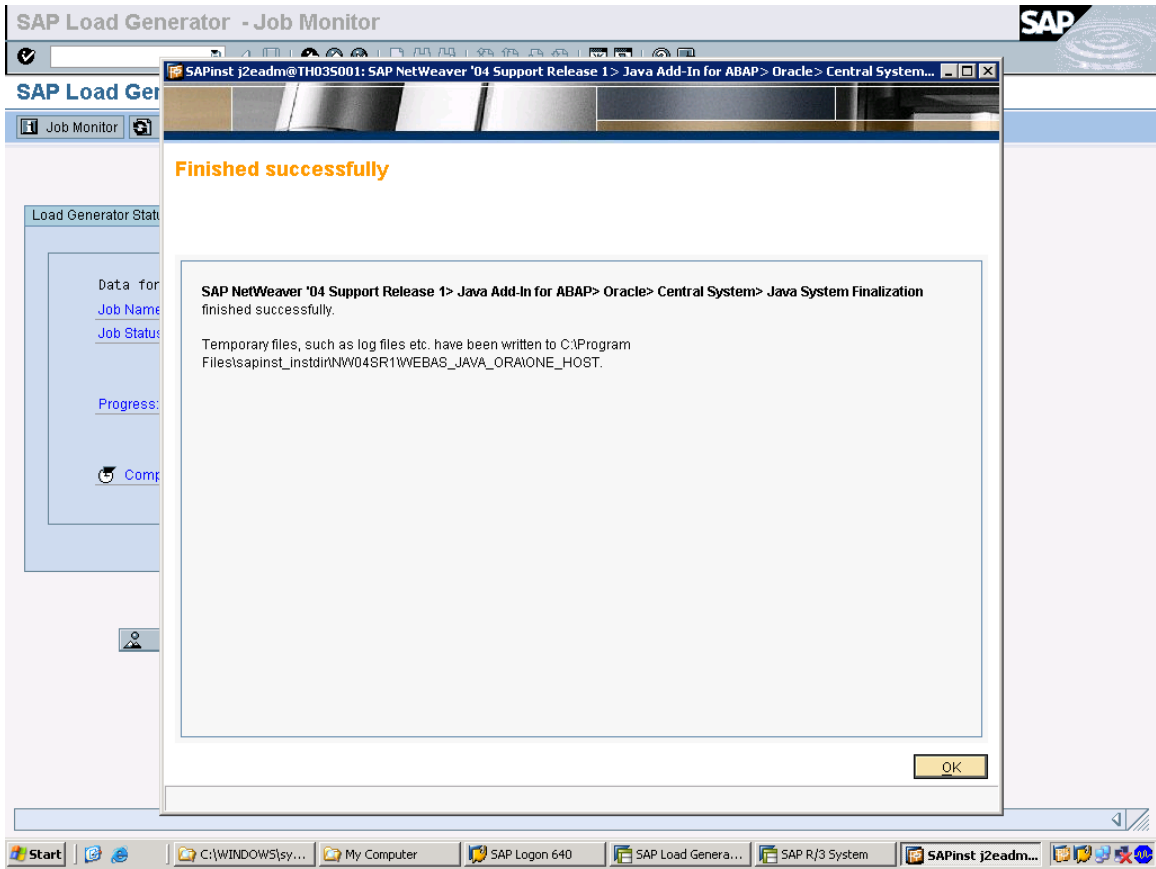
- ✓ Create Oracle Database Schema
- ✓ Check Oracle Patch
- ✓ User Environment for SIDADM
- ✓ J2EE Oracle Database (post)
- ✓ SDM Installation/Upgrade
- ✓ Deploy File System
- ✓ Create Secure Store
- ✓ Register Secure Store for SDI
- ✓ Register SDM Targets
- ✓ Unpack SCS Client
- ✓ SAP J2EE Engine Server Configuration
- ✓ Load Java Database Content
- ✓ Configure SAP J2EE Engine
- ✓ Write Info File for Template C
- ✓ SAP J2EE Engine Server Configuration
- Start SAP J2EE Engine**
- Map SLD Roles
- J2EE Engine Installation (post)



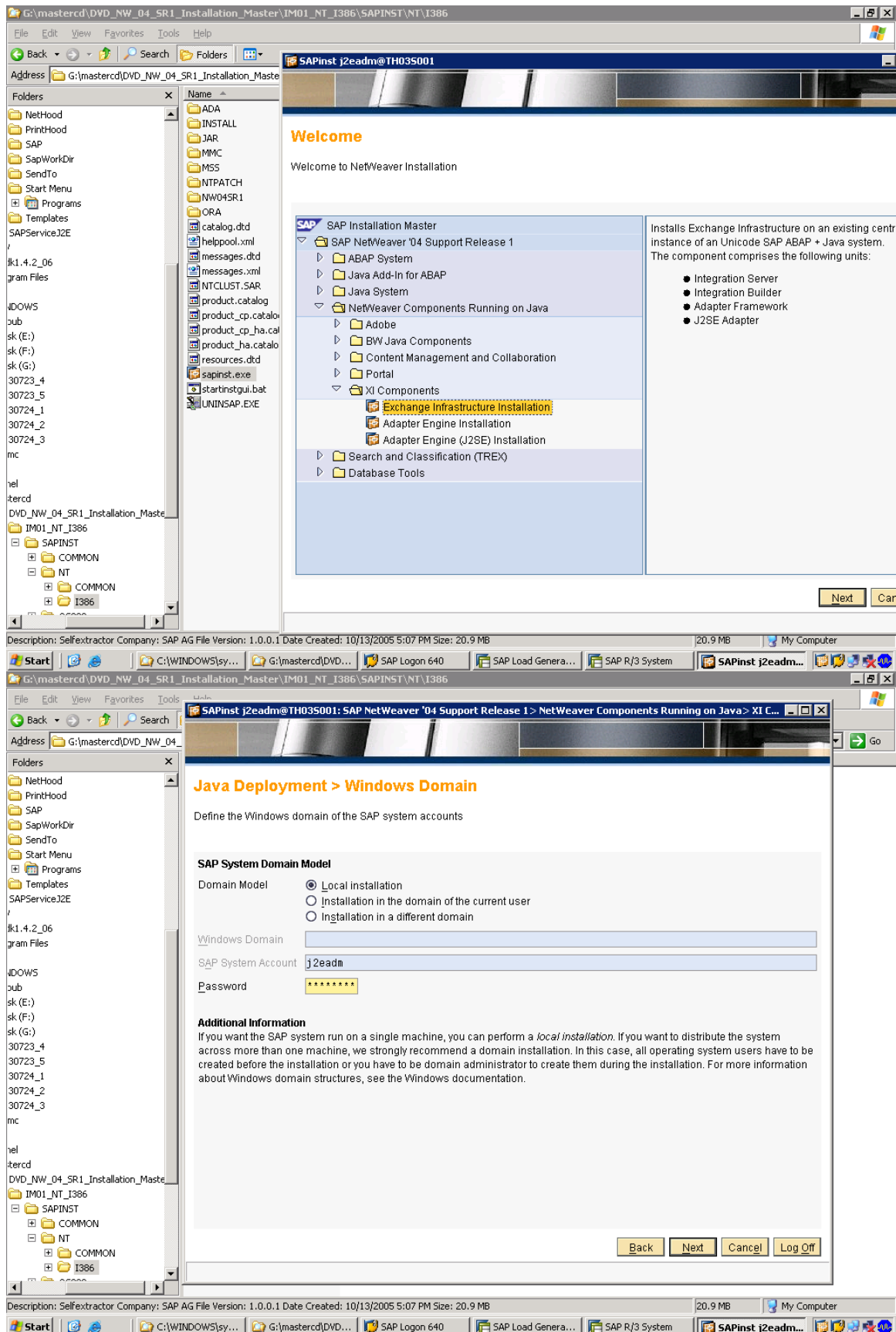
View Log Cancel Log Off

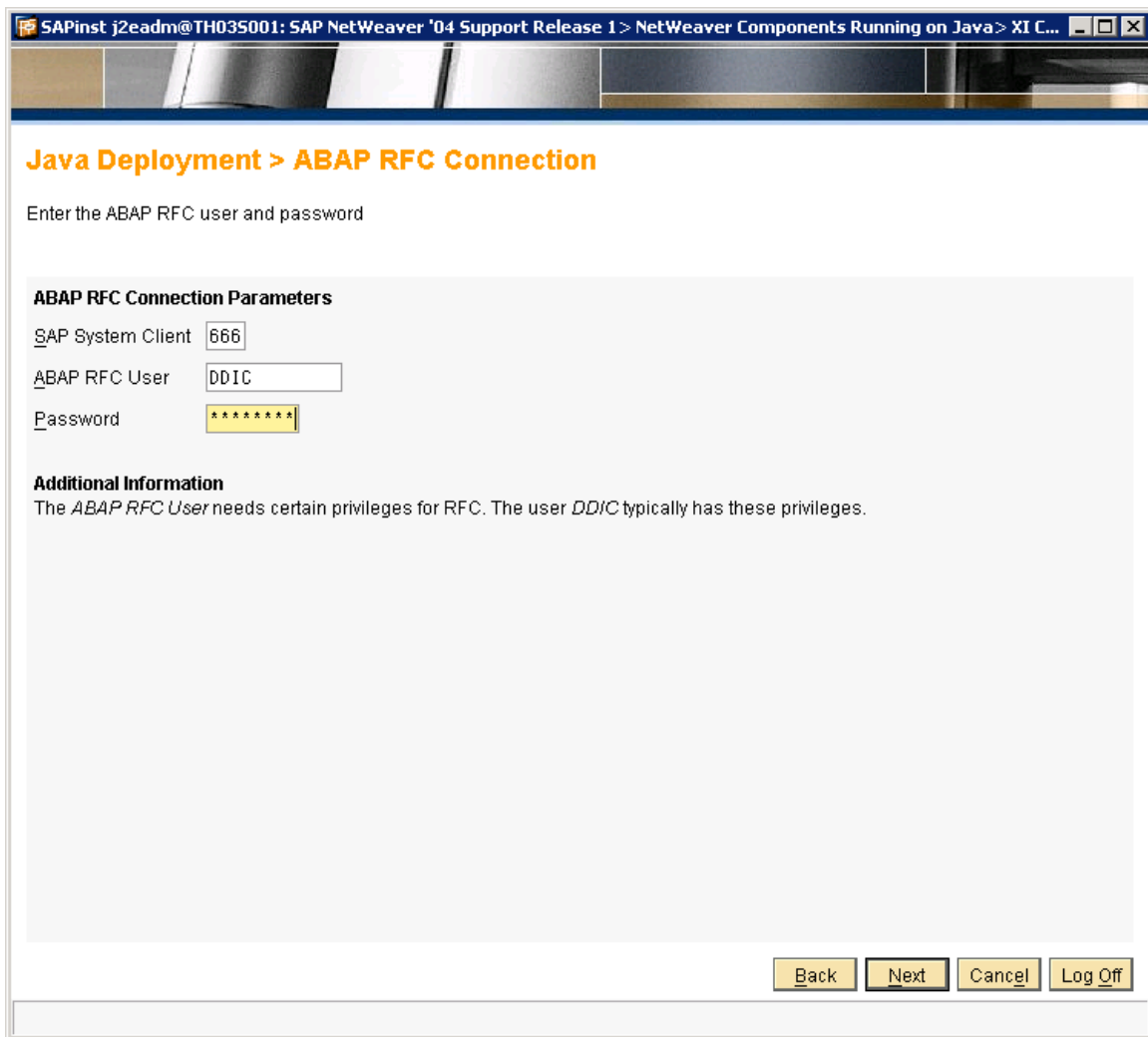
J2EE Instance DVEBMGS00: Synchronizing, 1:38 minutes elapsed





Now Installing the xi pack component.





The screenshot shows a web-based configuration window titled "SAPinst j2eadm@TH03S001: SAP NetWeaver '04 Support Release 1 > NetWeaver Components Running on Java > XI C...". The main heading is "Java Deployment > ABAP RFC Connection". Below this, it says "Enter the ABAP RFC user and password".

**ABAP RFC Connection Parameters**

SAP System Client:

ABAP RFC User:

Password:

**Additional Information**

The *ABAP RFC User* needs certain privileges for RFC. The user *DDIC* typically has these privileges.

At the bottom right, there are four buttons: "Back", "Next", "Cancel", and "Log Off".

SAPinst j2eadm@TH035001: SAP NetWeaver '04 Support Release 1 > NetWeaver Components Running on Java > XI C...

---

### SAP XI > J2EE Administrator

Enter the J2EE engine administrator user and password

**J2EE Connection Parameters**

Administrator User

Password

SAPinst j2eadm@TH035001: SAP NetWeaver '04 Support Release 1 > NetWeaver Components Running on Java > XI C...

## SAP XI > Service Users

Enter the passwords for all users and confirm the password for new users

**Integration Repository Service User (XIREPUSER)**

Password

Confirm

**Integration Directory Service User (XIDIRUSER)**

Password

Confirm

**Integration Server Service User (XIAPPLUSER)**

Password

Confirm

**Landscape Directory Service User (XILDUSER)**

Password

Confirm

SAPInst j2eadm@TH035001: SAP NetWeaver '04 Support Release 1 > NetWeaver Components Running on Java > XI C...

## SAP XI > Service Users

Enter the passwords for all users and confirm the password for new users

**Runtime Workbench Service User (XIRWBUSER) :**

Password

Confirm

**Adapter Framework Server Service User (XIAFUSER) :**

Password

Confirm

**Integration Server Service User (XIISUSER) :**

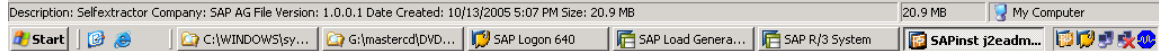
Password

Confirm

**Change Management Server Service User (LSADMIN) :**

Password

Confirm



SAPinst j2eadm@TH035001: SAP NetWeaver '04 Support Release 1> NetWeaver Components Running on Java> XI C...

### Start Execution

The current product will be installed with the following parameters. To proceed, choose Start, to change values, choose Back

**Dialog "Java Deployment > Windows Domain"**

Local installation selected

**Dialog "Java Deployment > ABAP RFC Connection"**

SAP System Client 666

ABAP RFC User DDIC

**Dialog "SAP XI > J2EE Administrator"**

Administrator User J2EE\_ADMIN

**Dialog "SAPinst DVD / CD Browser > Software Package Request"**

Package Location	Copy Package To	DVD / CD Name
G:/51030723_4/DVD_NW_04_SR1_NetWeaver_Components\X\XIAF		NW COMPONENTS DVD

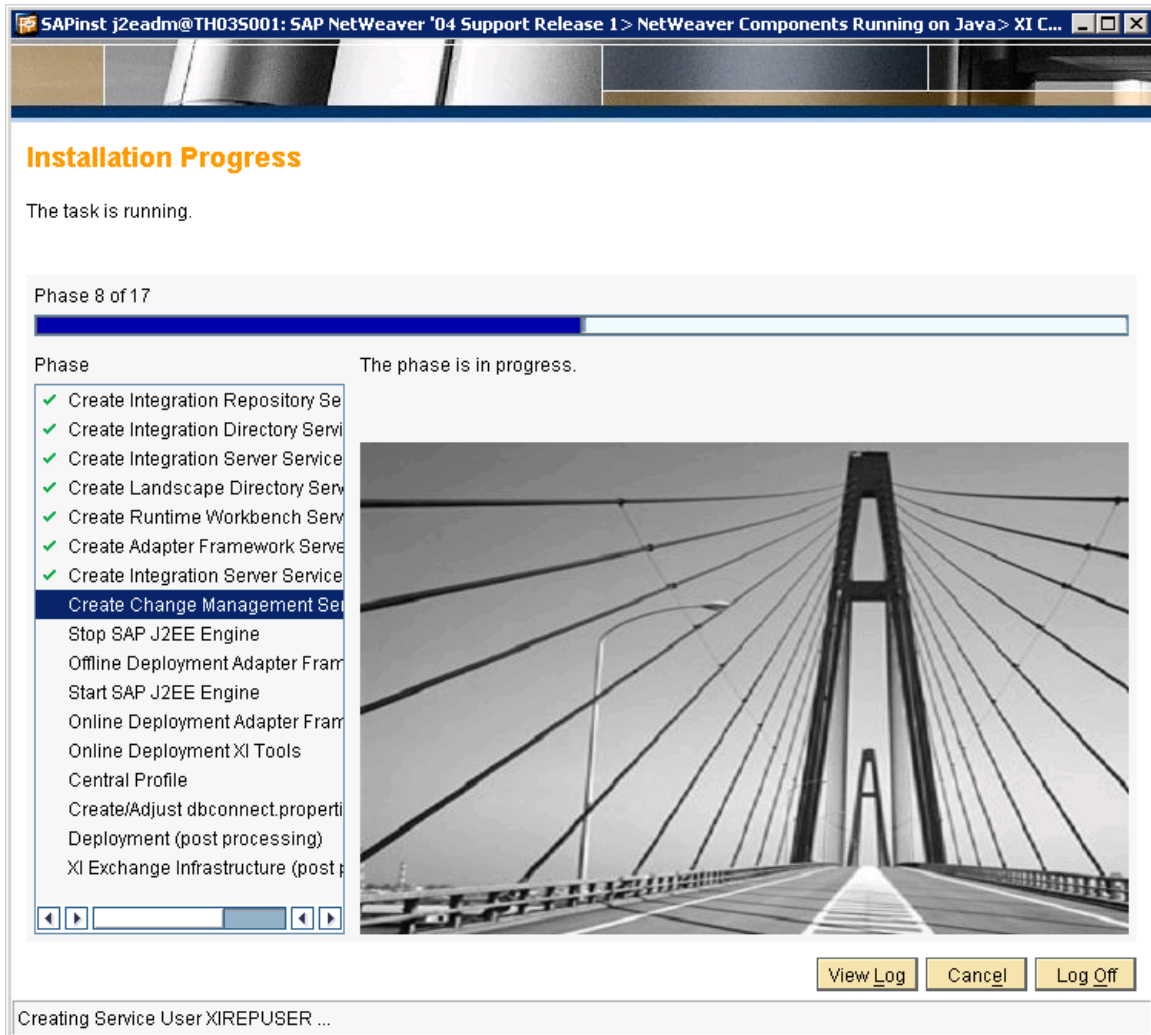
Back

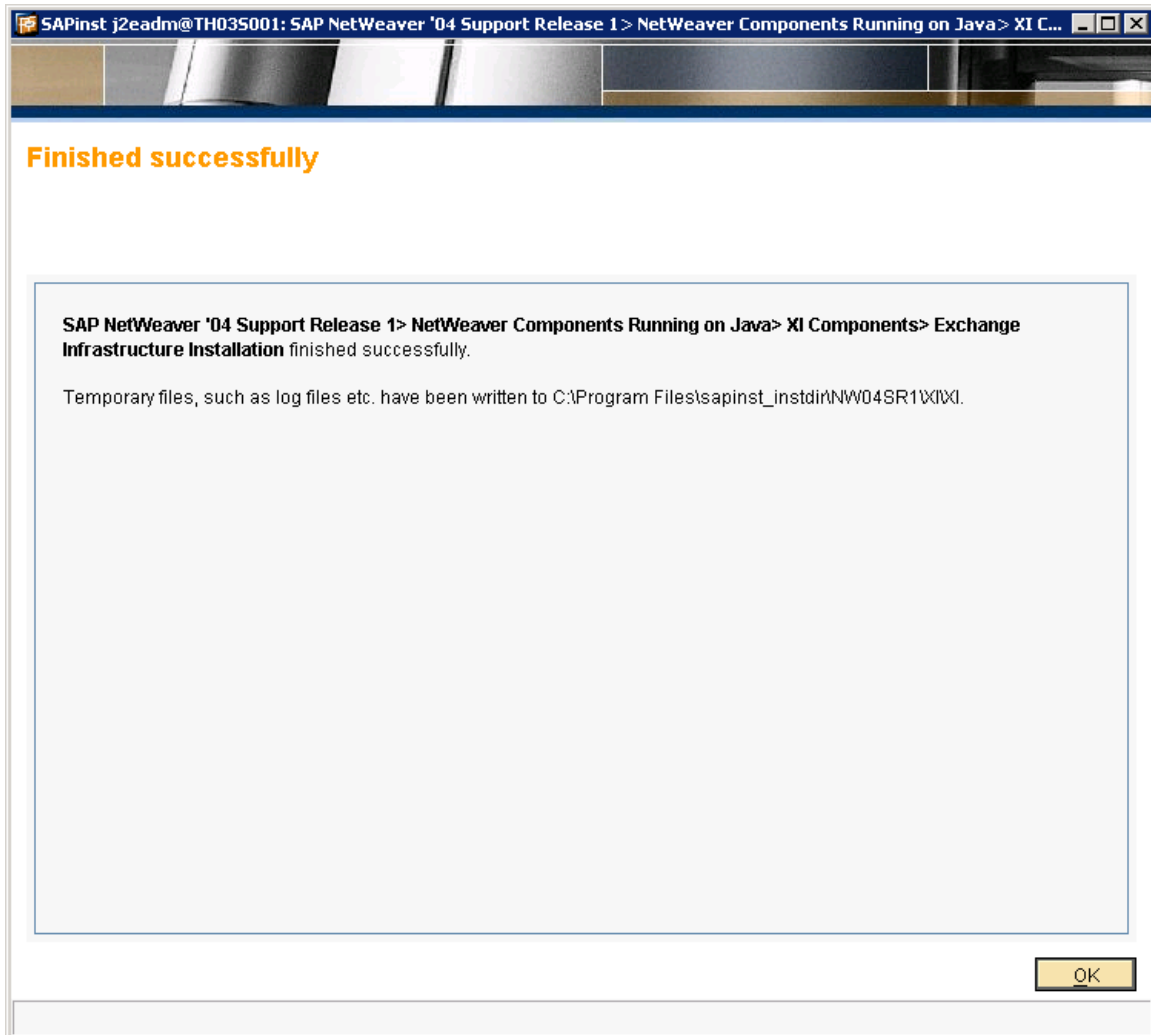
Start

Cancel

Log Off

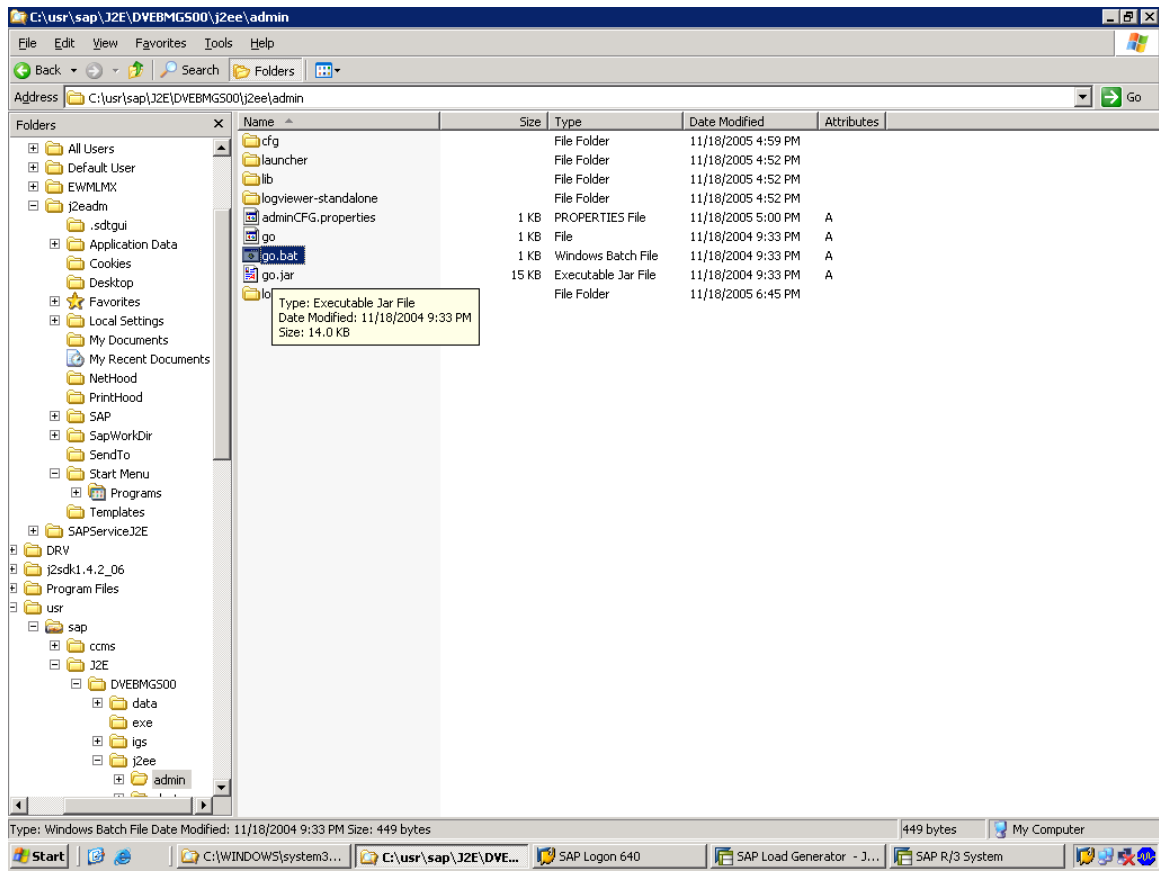


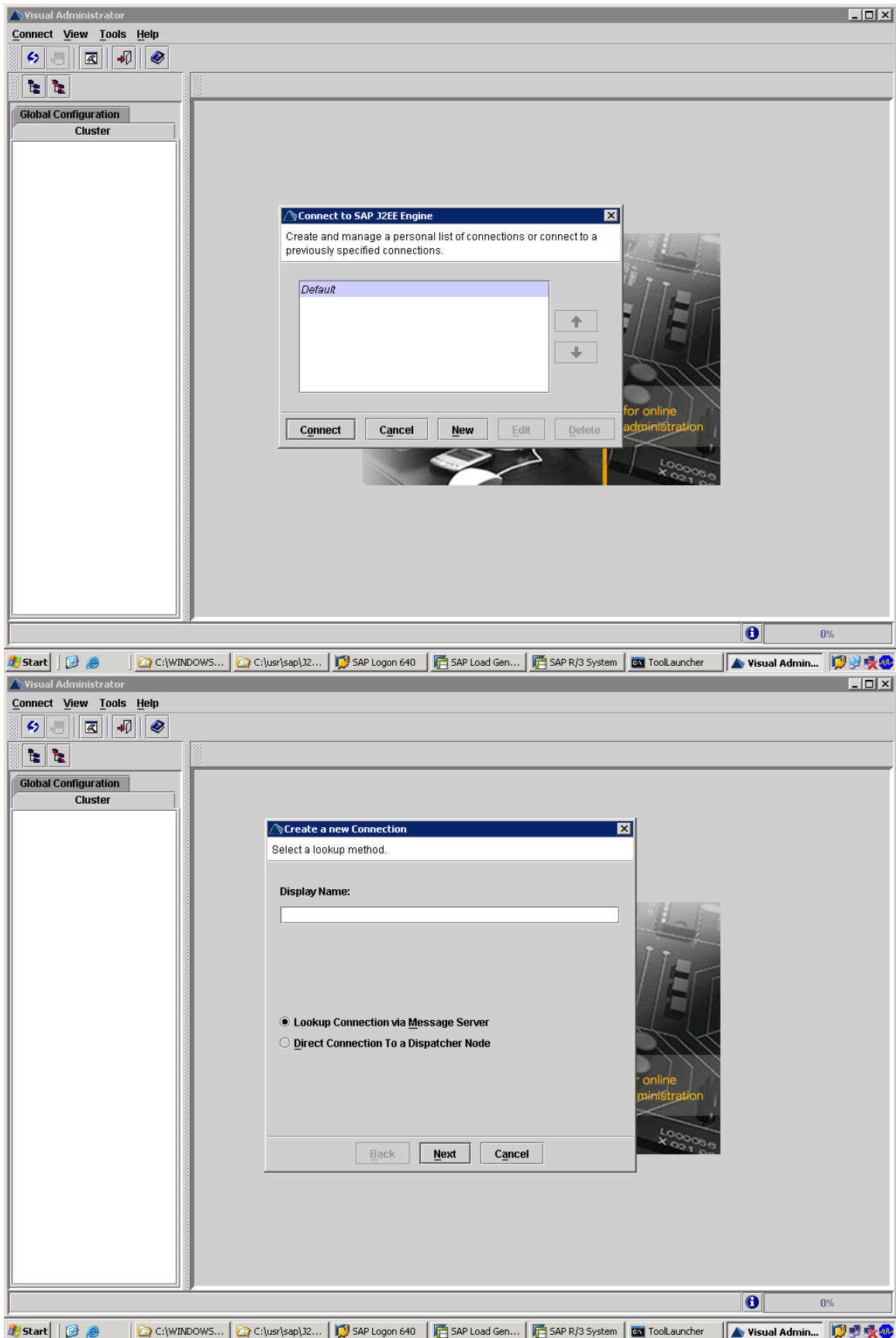


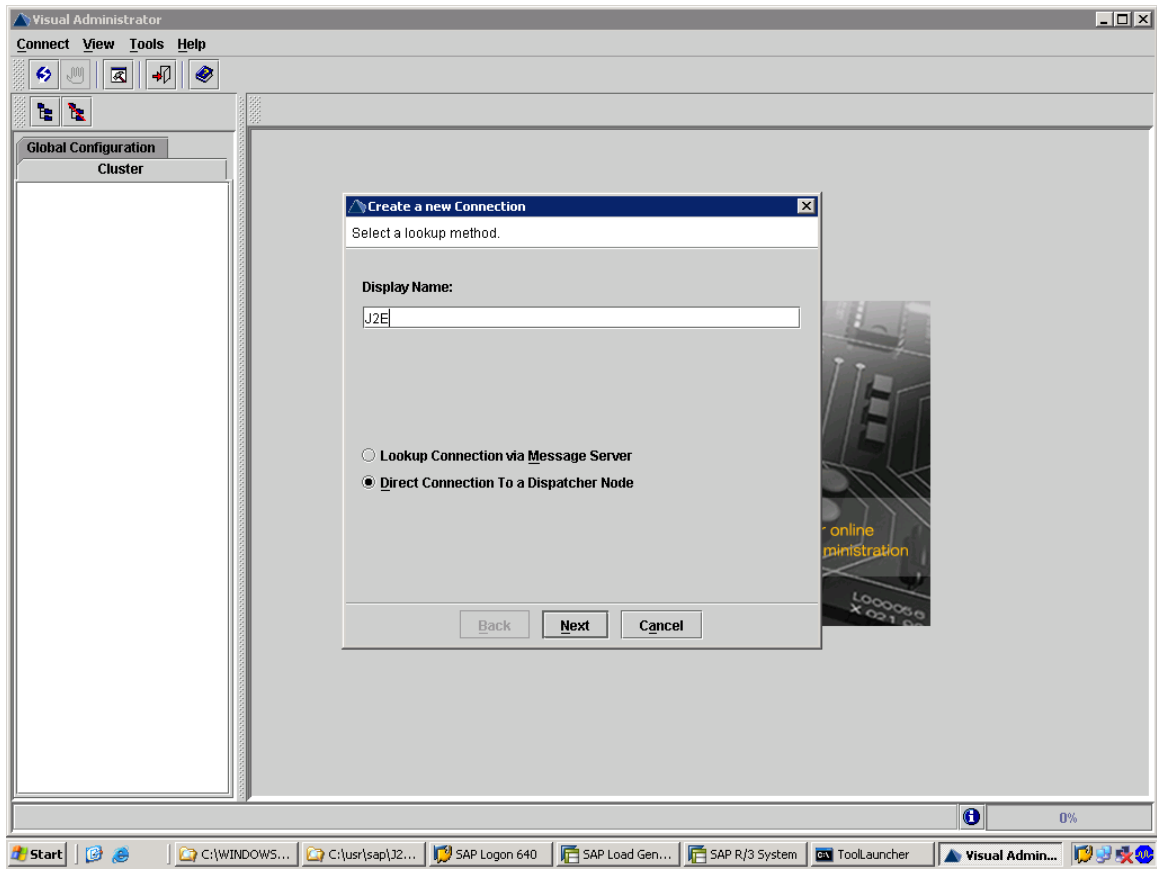


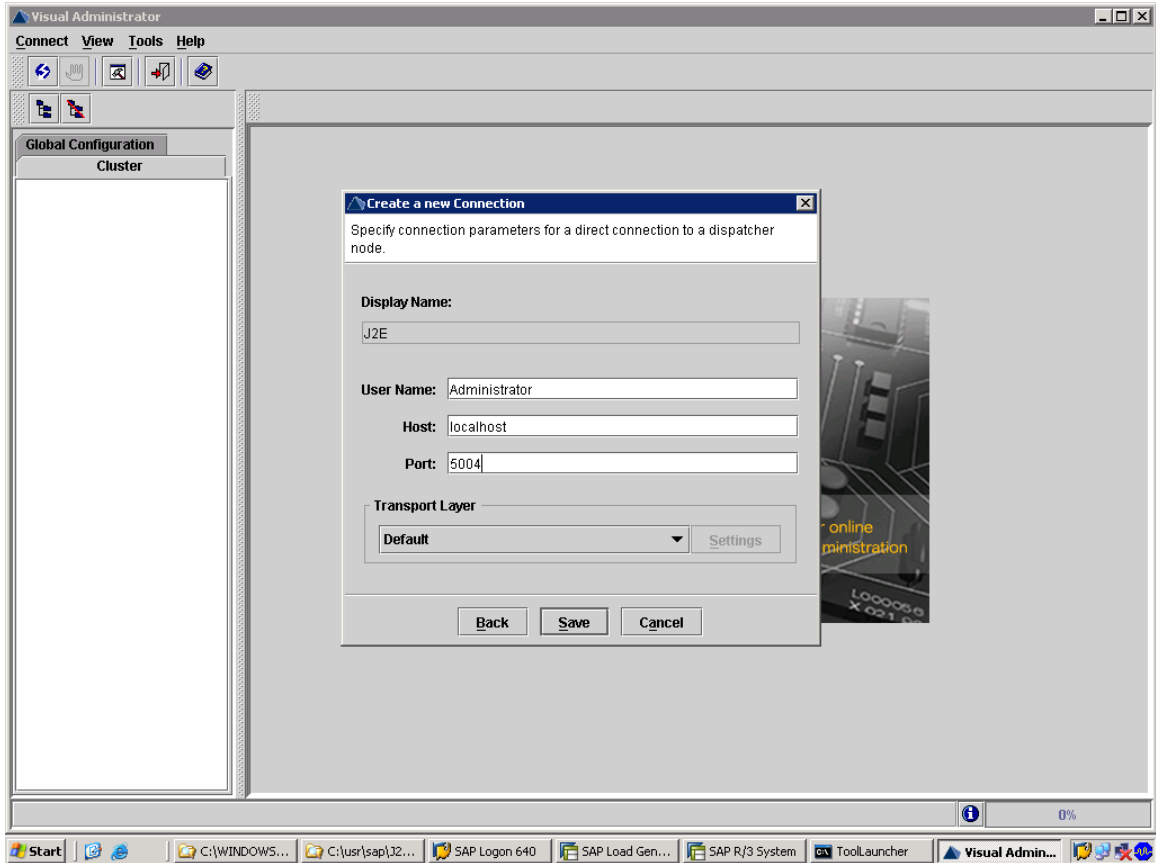
If one of the services is not running, select the services and choose *Start Application*.

1. Start the Visual Administrator of the J2EE engine.

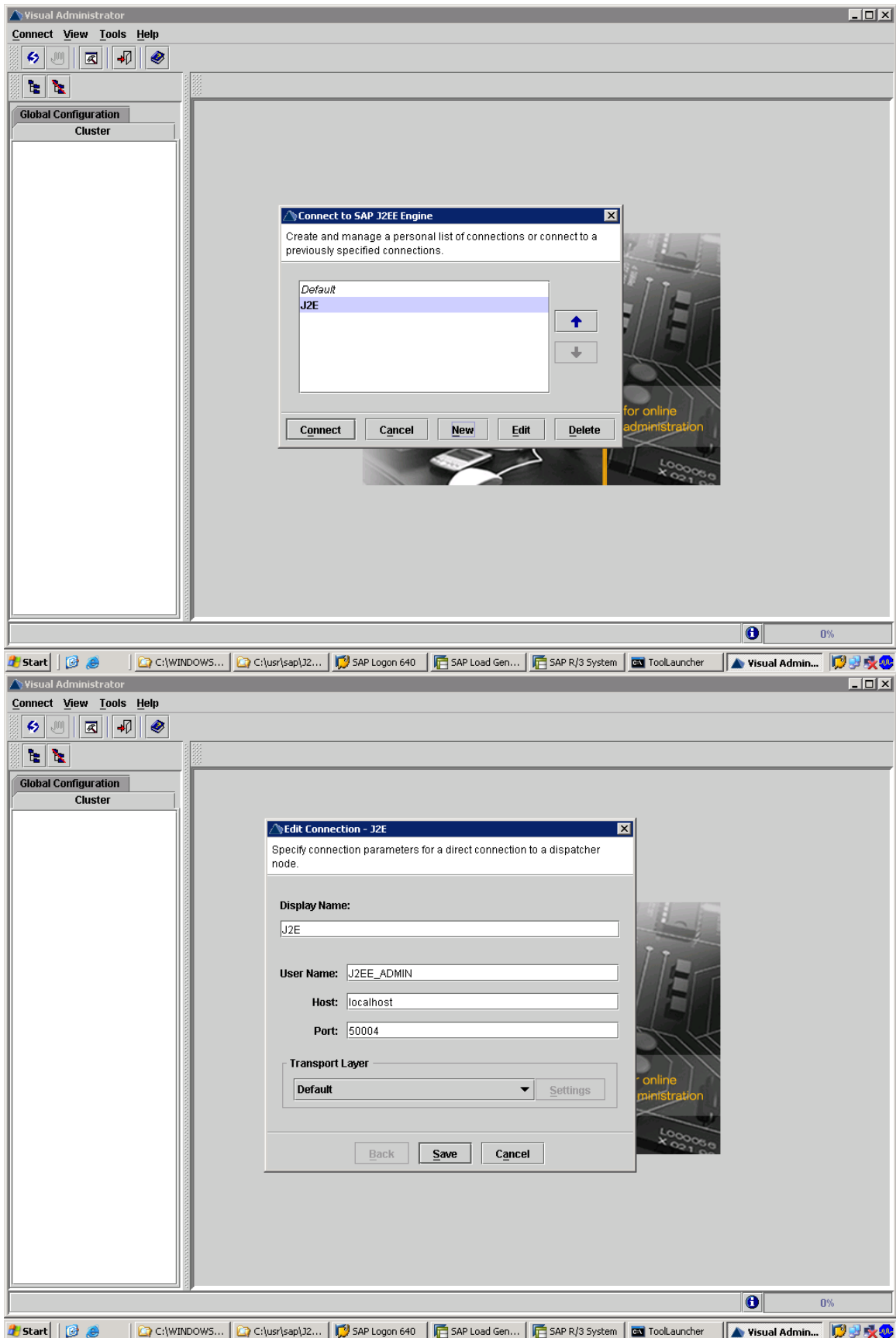


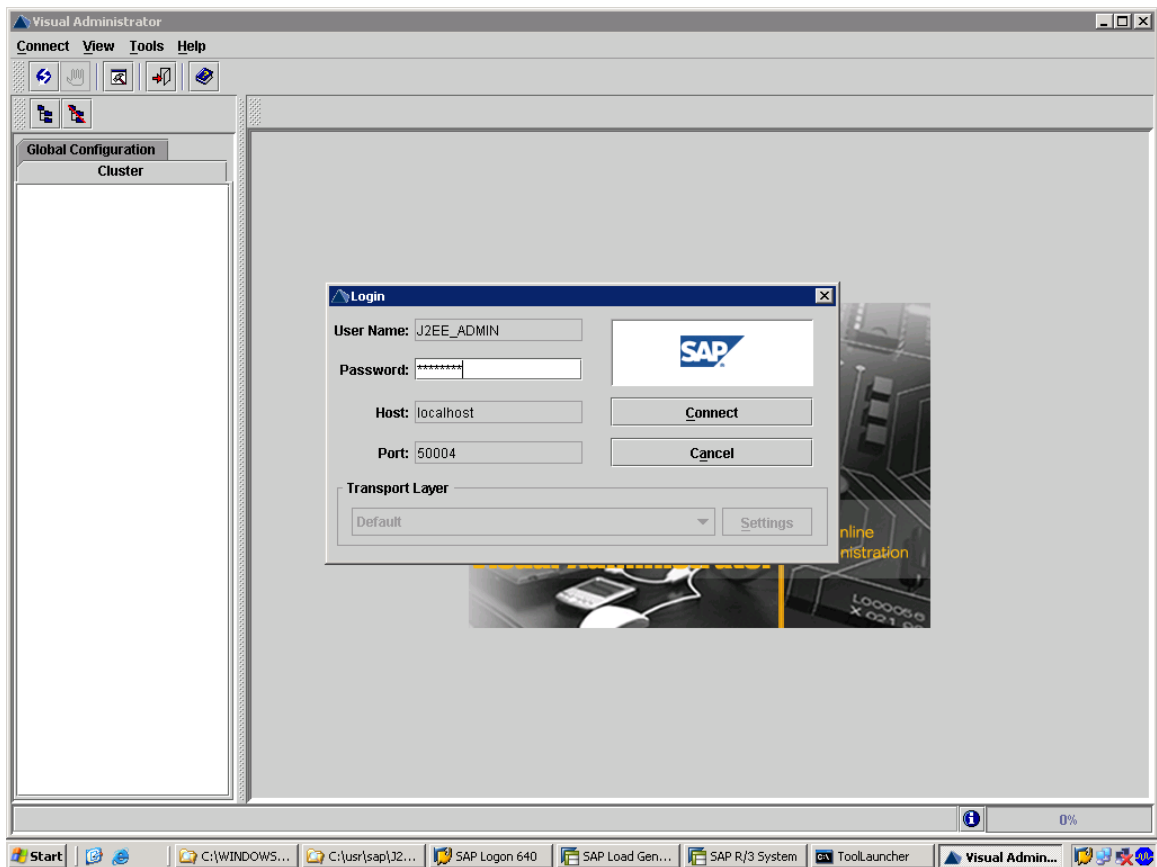






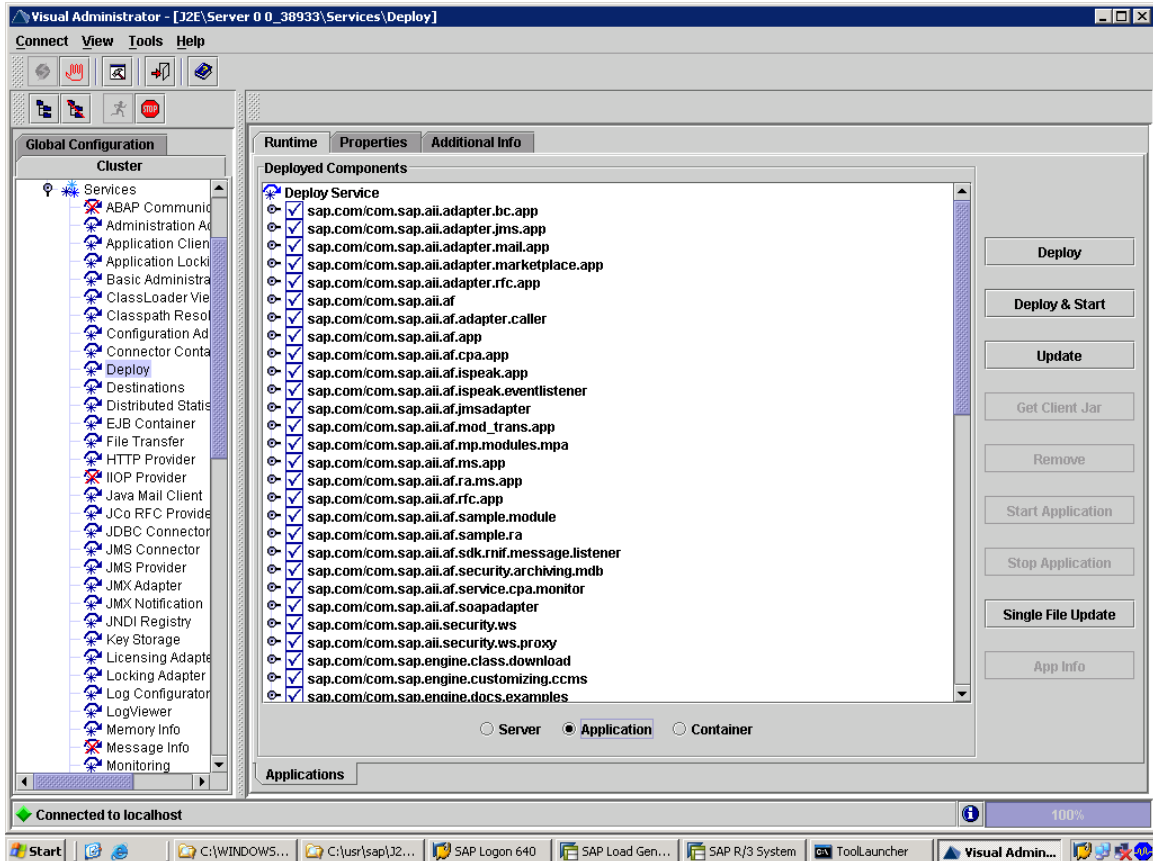
Save





*Choose Cluster → Server → Services → Deploy*





Check if the following services are running

- All services beginning with
  - `sap.com/com.sap.aii*`
  - `sap.com/com.sap.lcr*`
  - `sap.com/com.sap.xi*`
- `sap.com/com.sap.rprof.remoteProfile`

If one of the services is not running, select the services and choose *Start Application*.

## Creating User XISUPER

To perform the post-installation activities, you need to create the following user in your SAP Exchange Infrastructure client:

1. On your SAP Web AS host, create the user below with at least the following parameters (transaction *SU01*).

User	Last name (Tab: Address)	Password / User Type (Tab: Logon Data)	Role (Tab: Role)
XISUPER	<your_name>, for example <i>Xi Super</i>	<init_password> / <i>Dialog</i>	SAP_BC_AI_LANDSCAPE_DB_RF SAP_SLD_ADMINISTRATOR SAP_XI_ADMINISTRATOR SAP_XI_CONFIGURATOR SAP_XI_CONTENT_ORGANIZER SAP_XI_DEVELOPER SAP_XI_MONITOR

The SAP\_XI\* roles are composite roles

2. Save, and exit *SU01*
3. You must now log on to the Integration server host with the user XISUPER, to switch the initial password to a valid password.
4. You must restart the J2EE engine to transfer the user creation to the J2EE immediately.

## Generating Roles for SAP\_XI and SAP\_SLD

Generate all roles beginning with SAP\_XI, SAP\_SLD and SAP\_BC\_AI\_LANDSCAPE\_DB\_RFC:

1. Call transaction PFCG.
2. Choose *Utilities* → *mass generation*. Do the following:
  - a. Field *Role*: Enter **SAP\_XI\***
  - b. Select *Generate automatically*
  - c. Press <F8> and choose *Generate online*  
  
If there is a list of profiles displayed, which are not yet generated, repeat the procedure by pressing <F8>.
  - d. Repeat the steps for roles **SAP\_SLD\*** and **SAP\_BC\_AI\_LANDSCAPE\_DB\_RFC**
3. Choose *Utilities* → *mass comparison*. Do the following:
  - a. Field *Role*: Enter **SAP\_XI\***
  - b. Select *Output error messages*
  - c. Choose *Execute* (F8).

## Creating User XISUPER

To perform the post-installation activities, you need to create the following user in your SAP Exchange Infrastructure client:

1. On your SAP Web AS host, create the user below with at least the following parameters (transaction *SU01*).

User	Last name (Tab: Address)	Password / User Type (Tab: Logon Data)	Role (Tab: Role)
XISUPER	<your_name>, for example <i>Xi Super</i>	<init_password> / <i>Dialog</i>	SAP_BC_AI_LANDSCAPE_DB_RF SAP_SLD_ADMINISTRATOR SAP_XI_ADMINISTRATOR SAP_XI_CONFIGURATOR SAP_XI_CONTENT_ORGANIZER SAP_XI_DEVELOPER SAP_XI_MONITOR

The SAP\_XI\* roles are composite roles

2. Save, and exit *SU01*
3. You must now log on to the Integration server host with the user XISUPER, to switch the initial password to a valid password.
4. You must restart the J2EE engine to transfer the user creation to the J2EE immediately.

## Performing SAP XI Customizing

On your SAP Web AS host, do the following:

1. Log on as user with **SAP\_ALL** rights (you cannot use DDIC or SAP\*).
2. Call transaction **SWF\_XI\_CUSTOMIZING** to perform basic settings for the SAP Exchange Infrastructure.

The screen *Automatic Workflow Customizing* appears.

3. Make sure that the node *Maintain Runtime Environment* has a green hook (not a red cross).

If there is a red cross, do the following:

- a. Select the node *Maintain Runtime Environment*.
- b. Press F9.

The system now performs the automatic customizing including all sub nodes.

4. Choose *Maintain Definition Environment* → *Maintain Prefix Numbers*
5. Press F8.

The screen *Prefix Numbers for Workflow and Organizational Management* appears.

6. Press **Ctrl + F1** to activate the edit mode.
7. In the box *Available Prefix Numbers for Workflow and Organizational Management*, choose *Create*.
8. In the dialog box, you need to enter a *Prefix number* higher than 900 and choose *Save*.


## Assign Application Roles to User Groups

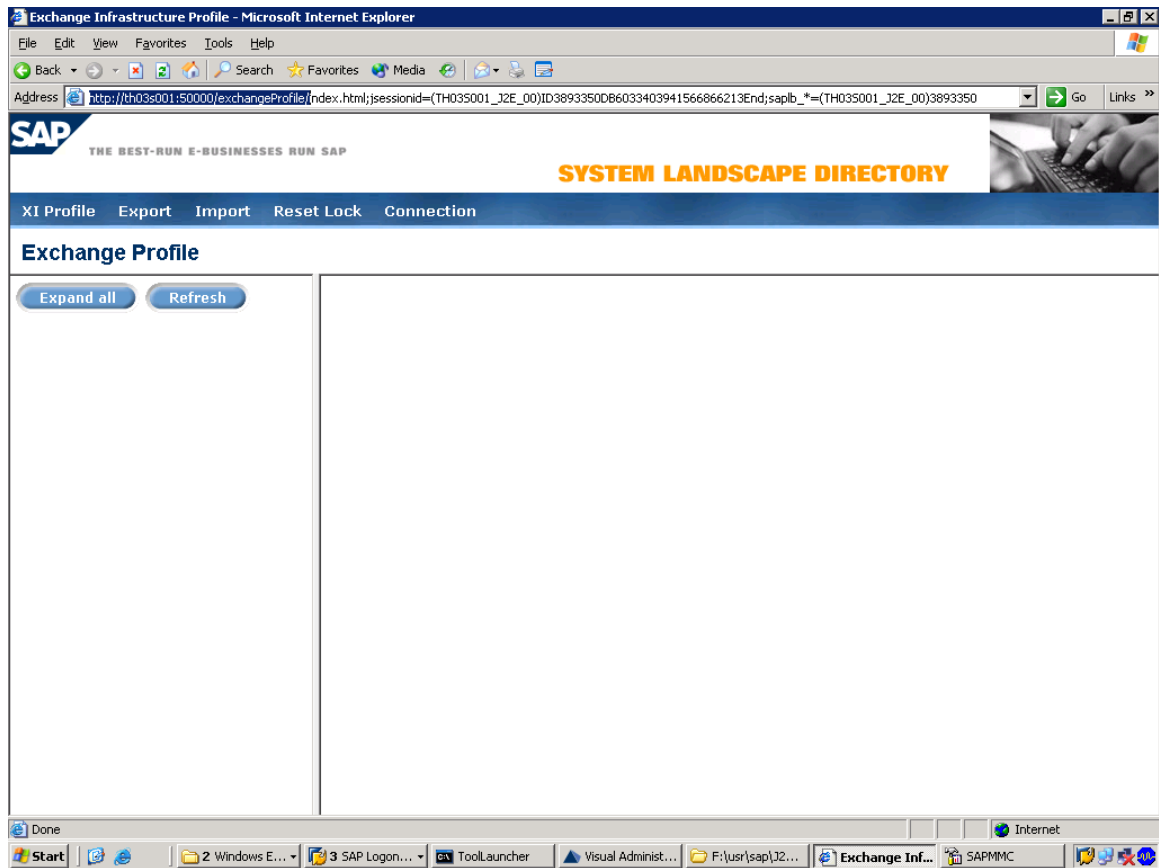
1. Start the J2EE Engine Visual Administrator.
2. Choose *Cluster* → *Server* → *Services* → *SLD Data Supplier*
3. On the *Runtime* tab in the right frame, push the button "Assign Application Roles to User Groups". Confirm the dialog.

## Importing the SAP Exchange Profile

You must import the SAP Exchange Profile manually.

1. On your SAP Integration server host, open the following URL:  
`http://<J2EE_host>:<J2EE_Port>/exchangeProfile`  
The following naming convention applies for <J2EE\_Port>:  
`5<J2EE_instance_number>00`. 50000, for example, if your J2EE instance is 00
2. Enter the log on information:  
*User Name:* **XISUPER**  
*Password:* `<xisuper_password>`  
The *Exchange Profile* page appears.
3. Choose *Connection*  
The *Server Settings* page appears
4. Enter the required information for the SAP Exchange Infrastructure host.  
Use the logon information of user XILDUSER
5. Choose *Set*.  
The *Exchange Profile* page appears.
6. Choose *Import*.  
The *Import Profile* page appears.
7. Choose *Browse* and select the following file:  
`/usr/sap/<SID>/SYS/global/exchange_profile.xml`

 If you cannot run a Web Browser on your XI host, you need to copy the file `exchange_profile.xml` from the XI host to a host where a Web browser runs.
8. Choose *Import Data*.  
The profile will be imported.



enter user name : xisuper & password as : supersap

if this site doesn't open, there is something wrong in roles, so please regenerate in 000, mass generation & comparison for sap\_xi\* & sap\_sld\* .

SLD Server Settings - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address <http://th03s001:50000/exchangeProfile/connection.jsp> Go Links

**SAP** THE BEST-RUN E-BUSINESSES RUN SAP

**SYSTEM LANDSCAPE DIRECTORY**

Exchange Infrastructure Profile > Connection

**Server Settings**

**Connection Parameters**

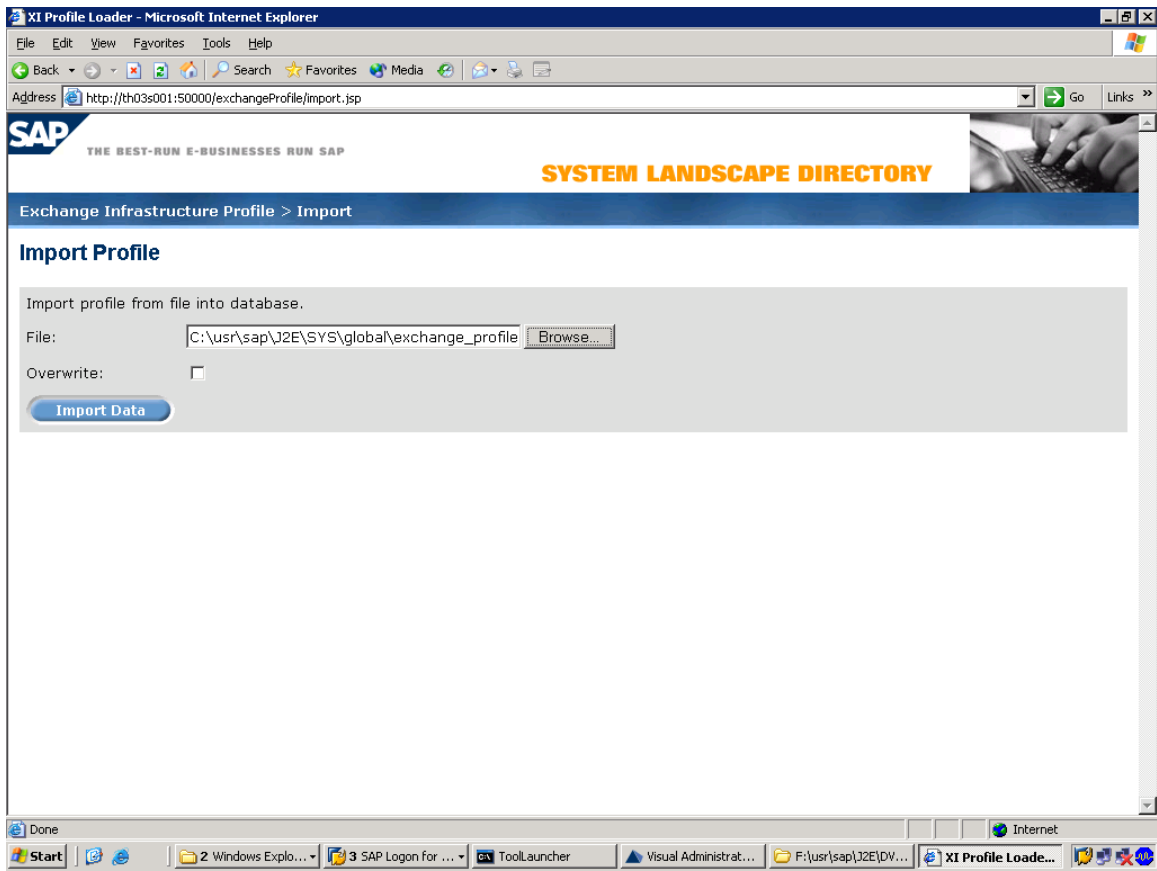
Client:  System Number:

User:  Host Name:

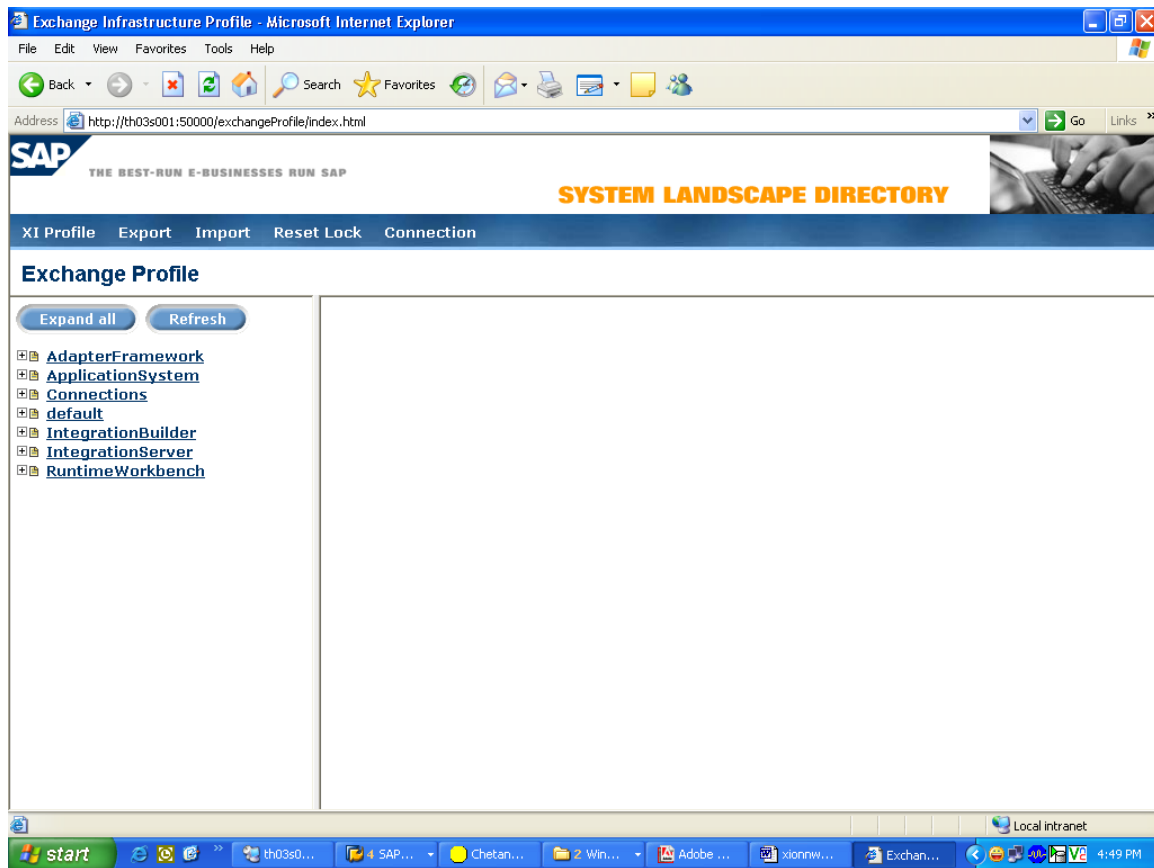
Password:  Language:

[Back to Profile](#)

Start 2 Windows Explo... 3 SAP Logon for ... ToolLauncher Visual Administrat... F:\usr\sap\J2E\DV... SLD Server Setti...







## Performing System Landscape Directory (SLD) Configuration

The System Landscape Directory 6.40 SR1 is installed as a part of the SAP Web AS Java 6.40 SR1 system.

The following steps are required to configure the SLD for XI:

- Applying **SAP Note 712594**
- Maintaining SLD Connection Parameters in the Integration Server
- Maintaining Server Settings in the SLD
- Updating the CR Data
- Configuring the SLD Bridge
- Maintaining a Business System for the Integration Server

note :712594

## Symptom

When you use the System Landscape Directory (SLD), the **data suppliers** automatically report information to the SLD. If the data suppliers are in ABAP-based systems, this information is sent by means of RFC to the SLD bridge, which is part of the SLD. The necessary configuration for this in transaction **RZ70** includes (among other things) the

specification of the SAP gateway used for RFC communication. When you try to open the RFC connection, an error occurs.

In the log list of the data collection run in transaction RZ70, you see that the RFC call has terminated:

```
RFC call failed: Error opening an RFC connection.
```

The SAP system log (transaction **SM21**) contains entries of the type:

```
OPERATING SYSTEM CALL GETSERVBYNAME FAILED (ERROR NO. 0 )
NICONNECT UNSUCCESSFUL, RETURN CODE: -0003
COMMUNICATION ERROR, CPIC RETURN CODE 026, SAP RETURN CODE 665
> CPI-C FUNCTION: CMINIT(SAP)
COMMUNICATION ERROR, CPIC RETURN CODE 026, SAP RETURN CODE 237
> CPI-C FUNCTION: CMINIT(SAP)
```

## Other terms

SLD instrumentation, SLD data supplier, SLD agent

## Reason and Prerequisites

To map the host and service name to the network configuration, the SAP system has to access the operating system. Entries are missing in the operating system for TCP/IP services of the type 'sapgwXX'.

## Solution

Check your SAP application servers to see whether the service name entered in transaction RZ70 is in the file '%windir%\System32\drivers\etc\services' (if you use Windows as your operating system) or in '/etc/services' (if you use UNIX as your operating system). If the service name is not in this file, you have to add the name manually as follows (XX = 00,01, ...99):

```
sapgwXX 33XX/tcp
```

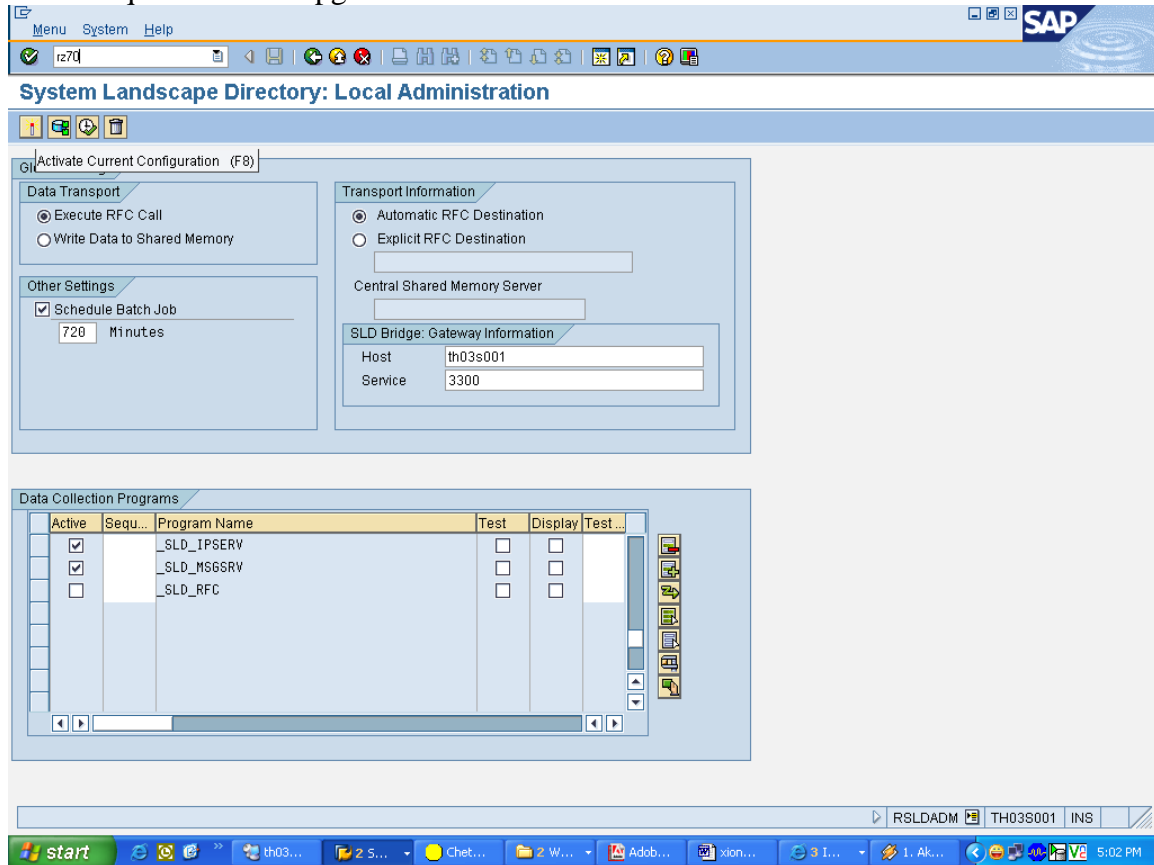
```
sapgwXXs 48XX/tcp
```

These entries are automatically activated and do not need a system restart. On some platforms, you may have to wait a few minutes before these entries are activated.

If you are using a central network administration tool (such as the 'Network Information System' (NIS), which is also known as "Yellow Pages"), you have to add these entries according to the guidelines issued by the manufacturer of your operating system.

Alternatively, proceed as follows:

1. Call transaction RZ70.
2. In the Service field, enter the port number instead of the service name (the equivalent is "sapgwXX" and "33XX" where XX is a number from 00 to 99



## Maintaining SLD Connection Parameters

1. Log on to the SAP System as user DDIC and call transaction **SLDAPICUST**.  
The screen *Maintain SLD Access Data* is displayed.
2. Choose *Display<-> Change*, and then proceed as follows:
  - a. Choose *Insert Row*.
  - b. Enter the connection parameters to the SLD:
    - Host Name: host name of the SLD host
    - Port: HTTP port of the J2EE engine (The following naming convention applies: 5<J2EE\_instance\_number>00. **50000**, for example, if your J2EE instance is **00**).
    - User
    - Password.
  - c. Set your entry as *Primary*.
  - d. Save.



As user enter XIAPPLUSER



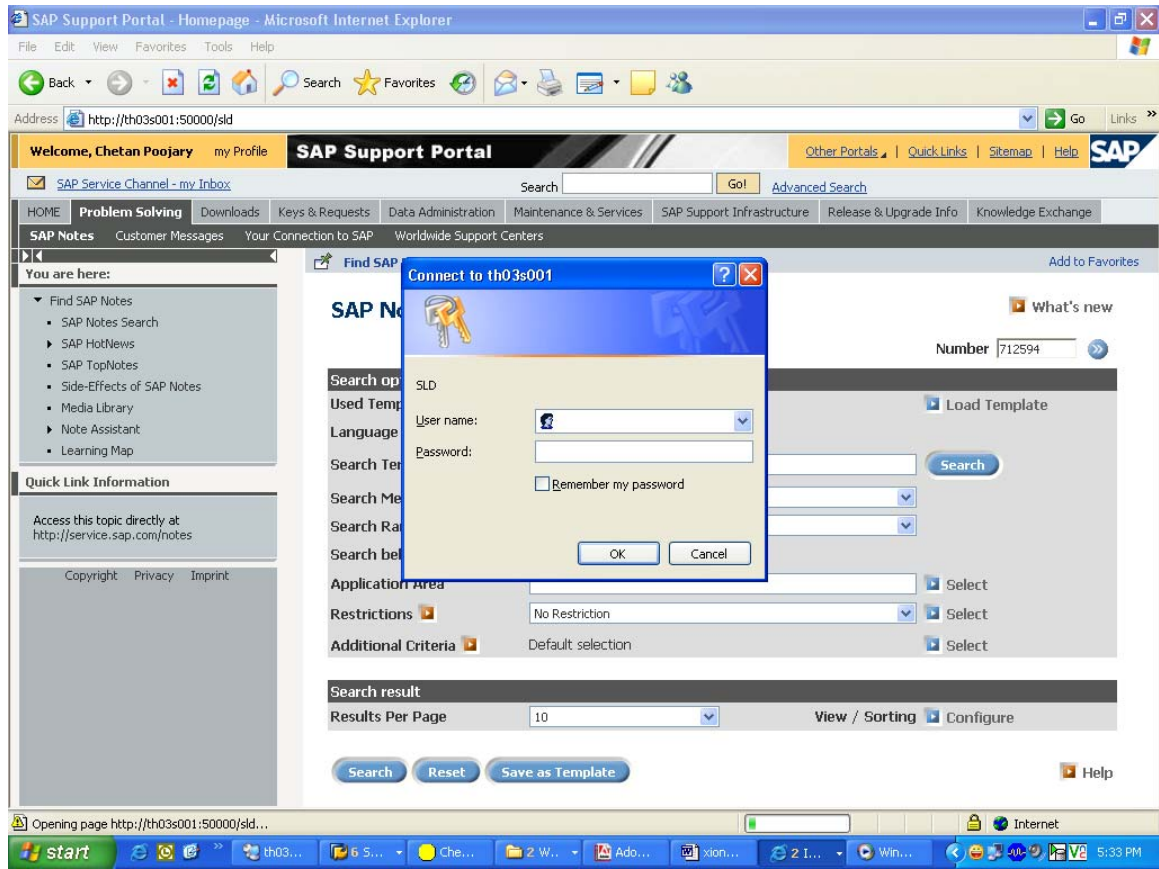
Only the *Primary* marked entry is active.

### **Maintaining Server Settings in the SLD**

1. **On your SLD host**, start the SLD configuration by entering the following URL in your Internet browser:

`http://<host>:<HTTP_port>/sld`

where <host> is the host name of the SLD host and <HTTP\_port> is the HTTP port of the J2EE engine (The following naming convention applies: 5<J2EE\_instance\_number>00. **50000**, for example, if your J2EE instance is **00**).



2. Enter the log on information:

*User Name:* **XISUPER**

*Password:* **<xisuper\_password>**

The *System Landscape Directory* page appears.

3. Choose *Administration*.

The *Administration* page appears.

4. Make sure that the field *Status* indicates *Stopped*.

The server must be stopped to perform this activity. If the server is running choose *Stop Server*.

5. Choose *Server Settings* and enter the following:

- a. *Object Server:*

Enter the host name where your SLD is located

Choose the *Information* button for more information.

- b. *Working Directory:*

Enter the path to the global SLD directory

(*/usr/sap/<SAPSID>/SYS/global/sld*)

6. Under *Persistence* select *Database*.

7. Leave the fields under *ABAP Connection Parameters* empty.

8. Choose *Set*.

9. Start the SLD server as follows:

- a. From the menu, choose *Administration*

- b. Choose *Start Server*.

The image shows two screenshots of the SAP NetWeaver System Landscape Directory (SLD) interface, captured in a Microsoft Internet Explorer browser window.

**Top Screenshot: SAP NetWeaver System Landscape Directory**

- Address Bar:** `http://th03s001:S0000/sld/index.jsp`
- Navigation:** Home, Administration, Help
- System Landscape Directory:** The SAP System Landscape Directory (SLD) maintains information about all installable and installed elements of your system landscape.
- System Landscape:**
  - Technical Landscape:** View and define systems, servers, and clients of your system landscape.
  - Business Landscape:** View and configure business systems for use in the Exchange Infrastructure (XI).
- Software:**
  - Software Catalog:** Search for products and software components.
- Development:**
  - Name Reservation:** Manage name reservation for development.
  - Content Maintenance:** View and change generic CIM data.
  - Class Browser:** View detailed CIM class information.
- Footer:** Namespace: `sld/active`, J2E, © 2004, SAP AG

**Bottom Screenshot: SAP NetWeaver System Landscape Directory Administration**

- Address Bar:** `http://th03s001:S0000/sld/admin/index.jsp`
- Navigation:** Home, Administration, Help
- Message:** No Object Server defined. Please set the Object Server parameter in [Server Settings](#).
- Administration:**
  - Start Server:** Status: **Stopped**
  - Configure the server, import and export data, and view the logs.**
- Server:**
  - Server Log:** View the server log, and set logging and tracing parameters.
  - Details:** View detailed information about the server.
  - Server Settings:** Set vital server parameters.
  - Profile:** View and change server parameters.
  - Data Supplier Bridge:** View status and configure data supplier bridge.
  - System Message:** Define a system message that is shown to every user who logs on to the SLD.
  - Back to Home**
- Content:**
  - Import, Export and Backup:** Upload and download CIM models and data.
  - Content Maintenance:** View and change generic CIM data.
  - Class Browser:** View detailed class information about the current CIM model.
  - Change Log:** Search for content changes.
  - Namespaces:** Manage CIM namespaces for working with different content versions.
  - Automatically Updated Data:** Manage automatically created landscape data from data suppliers.
- Footer:** Namespace: `sld/active`, J2E

Choose *Server Settings* and enter the following:

- a. *Object Server*:  
Enter the host name where your SLD is located  
Choose the *Information* button for more information.
- b. *Working Directory*:  
Enter the path to the global SLD directory  
(/usr/sap/<SAPSID>/SYS/global/sld)

Under *Persistence* select *Database*.

Leave the fields under *ABAP Connection Parameters* empty.

Choose *Set*.

Server Settings - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address <http://th03s001:50000/sld/admin/serversettings.jsp> Go Links

[Home](#) [Administration](#) [Help](#)

### Server Settings

Set vital server parameters. These settings can only be changed if the SLD server is stopped.

#### Server Parameters

Object Server

Working Directory

#### Persistence

Database ☒ ABAP ☐ File System ☐

#### ABAP Connection Parameters

Client:  System Number:

User:  Host Name:

Password:  Language:

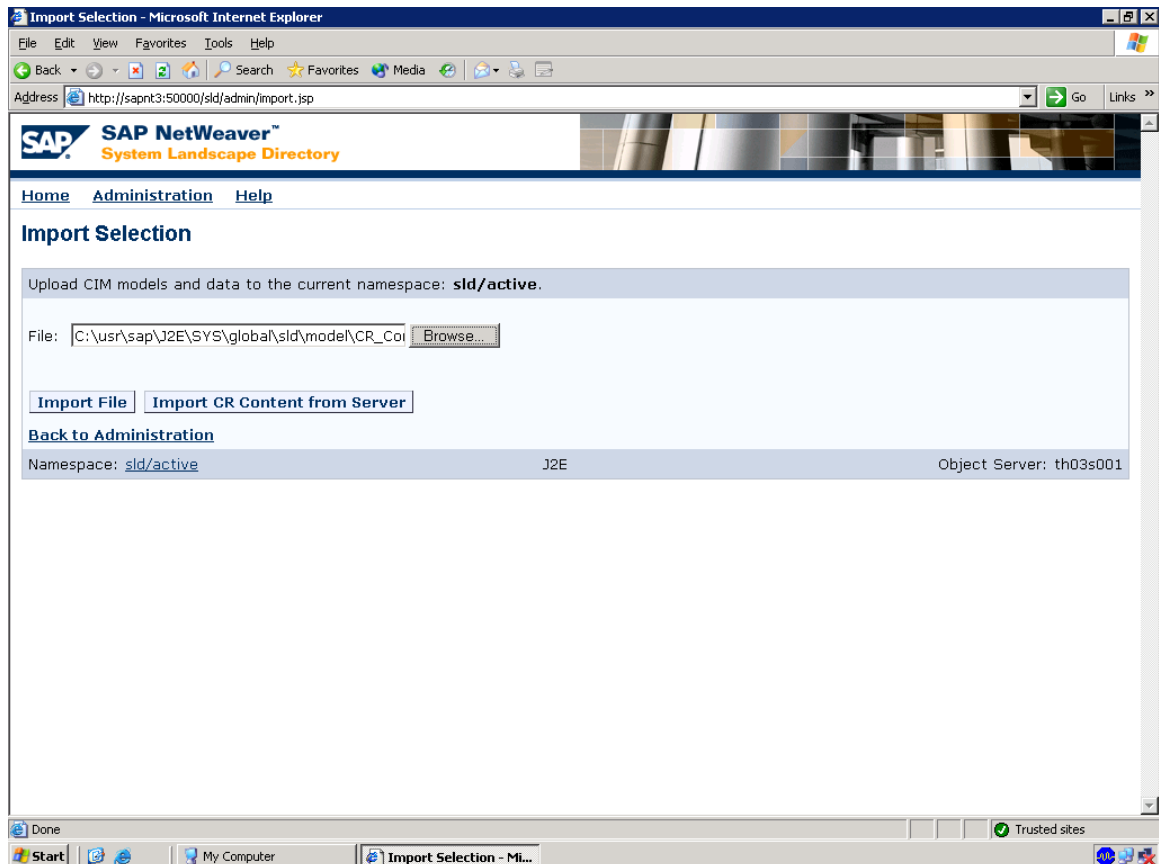
[Back to Administration](#)

Namespace: [sld/active](#) J2E

Done Local intranet

start th03... 6 S... Chet... 2 W... Adob... xion... 2 I... Wind... 5:41 PM





## Updating the CR Data in the SLD

The SLD server implements the *DMTF Common Information Model (CIM)* ([www.dmtf.org](http://www.dmtf.org)). Before you start to use the SLD server, you have to import two data packages successively:

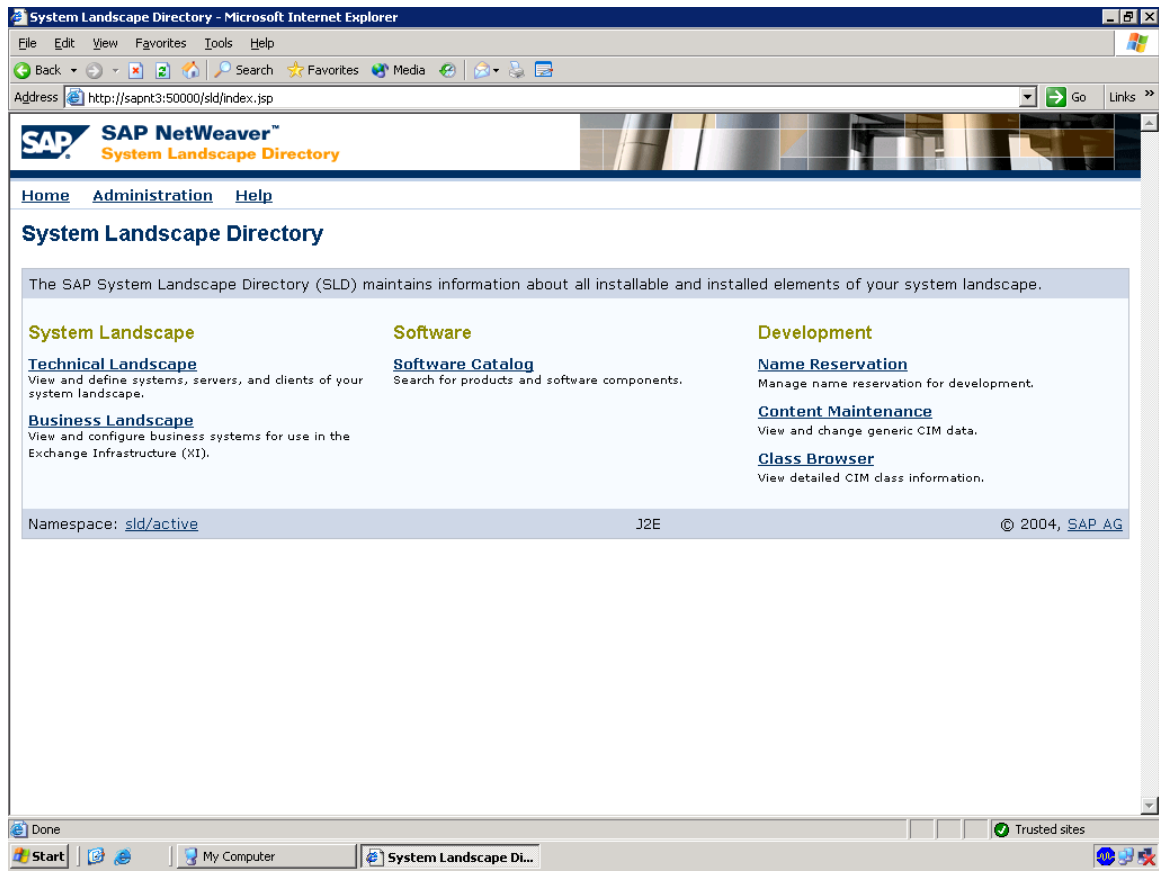
- *cimsap.zip*: This file contains all relevant class definitions from the CIM specification v. 2.6 and the SAP extension schema. When you start the SLD on SAP Web AS 6.40 SR1 for the very first time, this package will be imported automatically into the default CIM namespace *sld/active*.
- *CR\_Content.zip*: This file contains all instances that represent information about available SAP components.

To import these files:

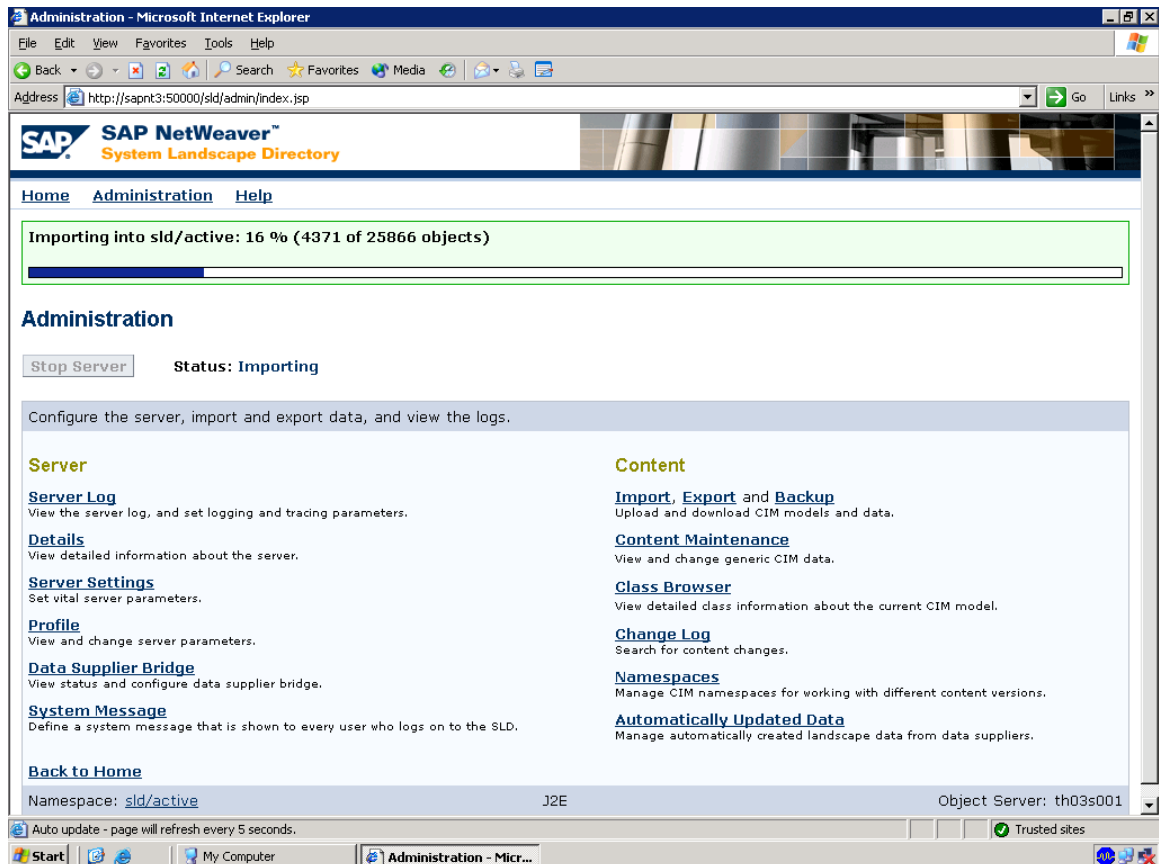
1. **On your SLD host**, start the SLD configuration by entering the following URL in your Internet browser:

`http://<host>:<HTTP_port>/sld`

`/usr/sap/<SAPSID>/SYS/global/sld/model`



2. In the *System Landscape Directory* page on your SLD host, choose *Administration*.  
The *Administration* page appears.
3. Choose *Import*.  
The *Import Selection* page appears.
4. If the *cimsap.zip* file has been uploaded during the SLD start continue with the import of *CR\_Content.zip*.
5. In the field *Import File* browse for the file *cimsap.zip*.  
If you run the Web browser on the SLD host, the file is located at  
*/usr/sap/<SAPSID>/SYS/global/sld/model/*, else browse for the directory where you  
have copied the file.
6. Choose *Import*.  
Leave all options deactivated for the initial data import.  
Loading the files to the SLD server may take up to 20 minutes.
7. Repeat the procedure for the file *CR\_Content.zip*  
Since *CR\_Content.zip* contains all available SAP components, the content of this file  
grows with time. The extensions contain information about new components (new  
releases and Support Packages, for example). This content in the SLD has to be  
updated from time to time. You can download the most up-to-date files from the SAP  
Service Marketplace. See **SAP Note 669669** for details.



## Configuring the SLD Bridge

Configuring the SLD Bridge contains the following activities:

- Configuring the SLD Clients with the SLD Administration
- Maintaining the ABAP Connection
- Configuring the SLD Data Supplier Service in the Visual Administrator

### Configuring the SLD Clients with the SLD Administration

1. In the *System Landscape Directory* page on your SLD host, choose *Administration*.  
The *Administration* page appears.
2. Choose *Data Supplier Bridge*.  
The *Data Supplier Bridge Administration* page appears.
3. Set the Update local SLD (sld/active) to *true*
4. Under Gateway enter:  
Server: <host\_name\_of\_SLD>  
Service: <gateway\_service\_of\_SLDhost>

5. Choose *Set*.
6. *Start* the SLD Bridge.

#### **Maintaining the ABAP Connection**

1. On your SAP XI host, call transaction **RZ70**.
2. In the group box *Transport Information*, enter in the *Host* field the host name of the gateway where your SLD bridge is registered.
3. In the *Service* field, enter the service name of the gateway.
4. In the group box *Data Collector Programs*, choose with the quick info *Proposal*.  
The system displays a dialog box asking you whether you want to use the default installation settings.
5. Choose *Yes*.
6. Save these settings by choosing with the quick info *Activate Current Configuration*.
7. Choose with the quick info *Start Data Collection*.  
The system displays a list of the executed programs on a separate screen. This screen also informs you whether the initial transfer of data by RFC was successful.  
You can ignore the message *Could not open file rfcexec.sec*.

#### **Maintaining a Business System for the Integration Server**

You have to maintain a Business System.

1. In the *System Landscape Directory* page on your SLD host, choose *Business Landscape*.  
The *Business Landscape* page appears.
2. Choose *New Business System...*  
The page *Business System Wizard – Details...* appears.
3. Enter the <SAPSID> of the Integration Server host and choose *Next*.  
The page *Business System Wizard – Technical System Type* appears.
4. Select *Web AS ABAP* and choose *Next*.

- The page *Business System Wizard - Select System* appears.
5. Select the technical system and the client that you have created above for the Integration Server and choose *Next*.
- The page *Business System Wizard – Installed Products* appears.
6. Choose *Next*.
- The page *Business System Wizard – Integration Server* appears.
7. Select *Integration Server as Business System Role* and enter the following in the field *Pipeline URL*:
- http://<host>:<HTTPport>/sap/xi/engine?type=entry**
- where <host> is the host name of the Integration Server. You can find <HTTPport> by logging on to the Integration Server and running transaction SMICM (choose *Goto* → *Services* and see entry for HTTP ).
8. Choose *Finish*.

The screenshot shows the SAP configuration interface for an RFC Destination. The title bar indicates the destination is 'INTEGRATION\_DIRECTORY\_HMI'. The 'Test connection' tab is active. The 'RFC Destination' is 'INTEGRATION\_DIRECTORY\_HMI' and the 'Connection Type' is 'H' (HTTP Connection to R/3 System). The 'Description' section has 'INTEGRATION\_DIRECTORY\_HMI' in Description 1. The 'Technical Settings' tab is selected, showing 'Target System Settings' with 'Target Host' 'th03s001' and 'Service No.' '00'. The 'Path Prefix' is '/dir/CacheRefresh'. The 'HTTP Proxy Options' section is expanded, showing 'Global Configuration' with 'Proxy Host' '10.35.48.43', 'Proxy Service' '8008', 'Proxy User' 'mbpyc', and 'Proxy Password' masked with asterisks. The 'Attributes' section is partially visible at the bottom. The taskbar at the bottom shows the Windows Start button and several open applications, including SAPLRCFC, TH03S001, and INS, with the system clock at 11:56 AM.

Destination System information Test System Help

RFC Destination INTEGRATION\_DIRECTORY\_HMI

Test connection

RFC Destination INTEGRATION\_DIRECTORY\_HMI

Connection Type H HTTP Connection to R/3 System

Description

Description 1 INTEGRATION\_DIRECTORY\_HMI

Description 2

Description 3

Technical Settings Logon/Security Special Options

Target System Settings

Target Host th03s001 Service No. 00

Path Prefix /dir/CacheRefresh

HTTP Proxy Options

Global Configuration

Proxy Host 10.35.48.43

Proxy Service 8008

Proxy User mbpyc

Proxy Password \*\*\*\*\*

Attributes

SAPLRCFC TH03S001 INS 11:56 AM

## Creating RFC Destinations in the ABAP Environment

You need to create the following RFC destinations in transaction SM59 (ABAP)  
*INTEGRATION\_DIRECTORY\_HMI*

1. Log on to your SAP Exchange Infrastructure central instance host.
2. Call transaction **SM59**.
3. Choose *Create*.
4. Enter at least the following:

*RFC destination:* **INTEGRATION\_DIRECTORY\_HMI**

*Connection type:* **H**

*Description:* <your description>

5. Choose **ENTER**
6. Choose the following tabs and enter the required data:

### Tab: Technical Settings

- *Target Host:* host name of the J2EE engine
- *Service No.:* HTTP port number (The following naming convention applies:  
5<Java\_instance\_number>00 → 50000, if your Java instance is 00)
- *Path Prefix:* /dir/CacheRefresh

### Tab: Security/Logon

- Select *Basic Authentication*  
Confirm both the popup and the warning.
- As logon data enter the client of your SAP XI system and the user XIISUSER with the valid password



Save your entry now, before you switch to next tab, otherwise your entries may be lost.



Press *Enter* to go to the next screen.

### Tab: Special Options

- *Timeout:* 900
- *HTTP Settings:*  
*Compression:* inactive  
*Compressed Response:* No
- *HTTP Cookies:* Accept Cookies: Yes (All)

7. Choose *Test Connection*.

The test has been executed successfully if the response status code is 500 and you find **REQID not found** in the HTTP body.

8. Save your settings.

## Creating RFC Destinations in the ABAP and Java Environment

You need to create the following RFC destinations in transaction SM59 (ABAP) and the Visual Administrator (Java):

- *AI\_RUNTIME\_JCOSERVER*
- *AI\_DIRECTORY\_JCOSERVER*
- *LCRSAPRFC*
- *SAPSLDAP*

Depending on your client settings, it may be necessary to be logged on your SAP Exchange Infrastructure host as SAP system user with the authorization to maintain customizing tables and to release transport orders. Note, that user "SAP\*" or "DDIC" does not have these authorizations.

### Maintaining the RFC Connections (Transaction SM59)

1. Log on to your SAP Exchange Infrastructure central instance host.
2. Call transaction **SM59**.
3. Choose *Create*.
4. Enter at least the following:

*RFC destination:* **AI\_RUNTIME\_JCOSERVER**

*Connection type:* **T**

*Description:* *<your description>*

5. Choose **ENTER**
6. Choose the tab *Technical settings* and do the following:
  - a. Select *Registered Server Program*
  - b. In the *Program ID* field, enter: **AI\_RUNTIME <SID>**  
where <SID> is the SAP system ID of your *Integration Server* host.



Use uppercase letters only.

- c. Enter *Gateway host* and *Gateway service* of your *Integration Server* host.



To find out the required parameters:

- a. On the *Integration Server* host, call transaction **SMGW**
- b. Choose *Goto* → *Parameters* → *Display* (see entries for *gateway hostname* and *gateway service*)

7. Choose tab *Special Options* and select the flag *Unicode* in the box *Character Width in Target System*.
8. Save your settings.





9. Repeat the steps 3 – 8 for the remaining destinations:

Destination	Values
AI_DIRECTORY_JCOSERVER	Program ID: AI_DIRECTORY_<SID>, where <SID> is the SAP system ID of your SAP XI host
LCRSAPRFC	Program ID: LCRSAPRFC_<SID>, where <SID> is the SAP system ID of your SAP XI host.
SAPSLDAP1	Program ID: SAPSLDAP1_<SID>, where <SID> is the SAP system ID of your SAP XI host.

10. Leave the transaction SM59 open for later tests.

### J2EE Configuration for the Destinations (Visual Administrator)

- On your SAP Exchange Infrastructure central instance host, start the J2EE Engine administration tool.  
If you do not know how to start, see section [How to start the J2EE Administration Tool](#) [on page 57].
- Choose *Cluster* → *Server* → *Services* → *JCo RFC Provider*
- In the section *RFC destination*, enter exactly the same program ID and gateway options for **AI\_RUNTIME\_JCOSERVER** that you used in the step *Maintaining the RFC connection* above.  
Additionally, set the number of processes to 10.
- In the section *Repository*, do the following:
  - Enter the parameter for the **SAP XI** host: Application Server, System Number, Client and Language.
  - For User and Password maintain the login parameters for the user SAPJSF.
  - Select the flag *Unicode*.
- Choose *Set*.
- Repeat the steps 3 – 6 for the remaining destinations:

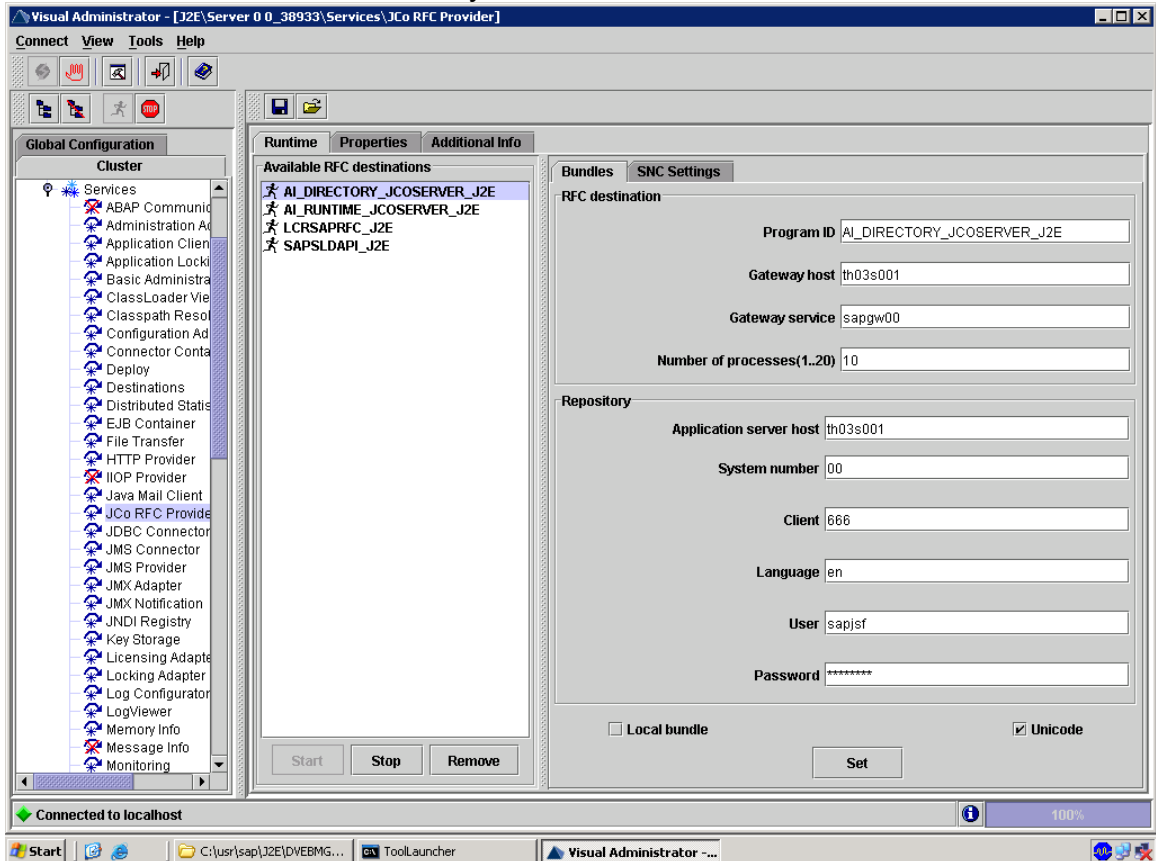
Destination	Values
AI_DIRECTORY_JCOSERVER	<ul style="list-style-type: none"><li>Corresponding values from SM59</li><li>Number of processes: 10</li></ul>
LCRSAPRFC	<ul style="list-style-type: none"><li>Corresponding values from SM59</li><li>Number of processes: 3</li></ul>
SAPSLDAP1	<ul style="list-style-type: none"><li>Corresponding values from SM59</li><li>Number of processes: 3</li></ul>

### Testing the RFC Destination

After you have maintained all RFC destinations in both the ABAP and Java environment, you can check all the connections above as follows:

- Call transaction **SM59** again.
- Open your RFC destination.
- Choose *Test Connection*.  
No error should be displayed.

Note that the PROGRAM ID entry is same on both ABAP & J2E.




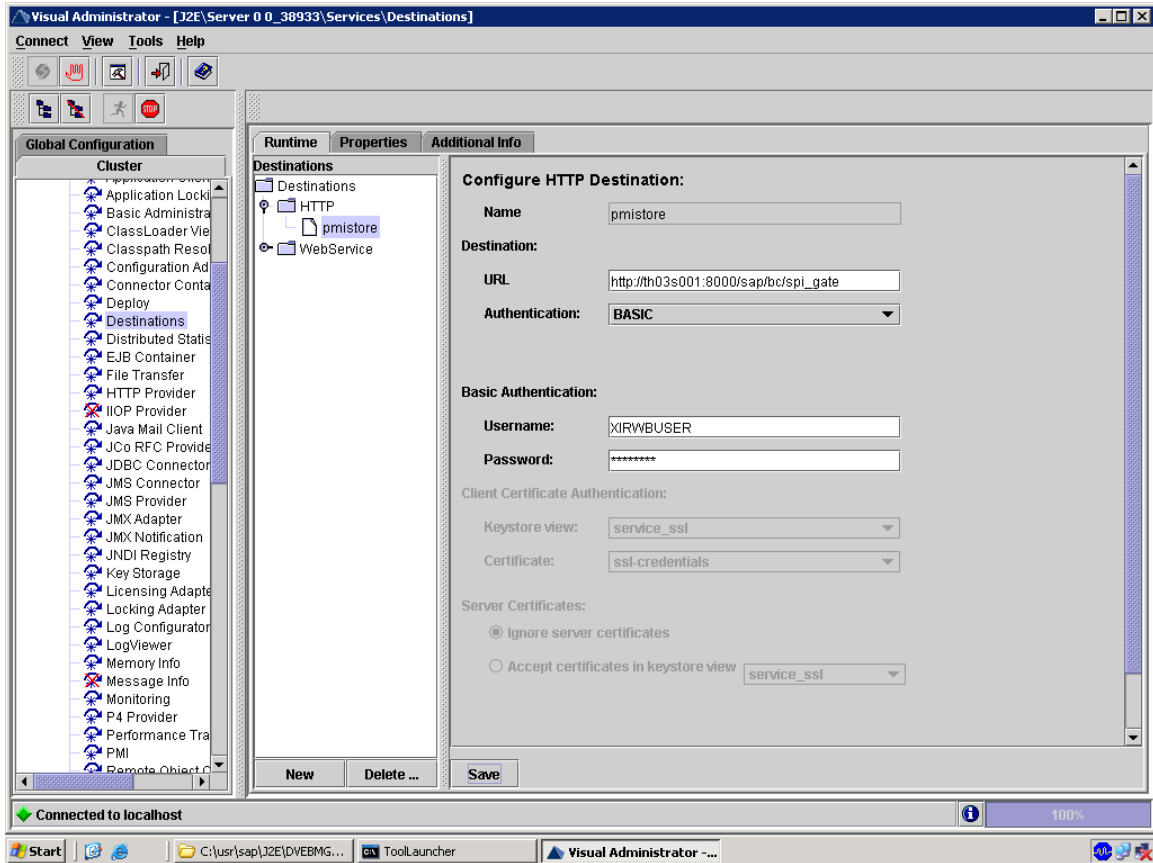
## Activating the ICF Services

Refer to **SAP Note 736312** to activate the relevant SAP XI ICF services.

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### Creating HTTP Destination pmistore in the Java Environment

1. On your SAP Exchange Infrastructure central instance host, start the J2EE Engine administration tool.  
If you do not know how to start, see section [How to start the J2EE Administration Tool](#) [on page 57].
2. Choose *Cluster → Server → Services → Destinations*
3. In the right frame select the node *HTTP* in the *Runtime* tab.
4. Choose *New*.
5. Enter the exact string `pmistore` as destination name.  
 Use lowercase letters only.
6. Choose *HTTP → pmistore* and enter at least the following:
  - *URL:* `http://<xi_host>:<ABAP_Port>/sap/bc/spi_gate`  
The following naming convention applies for `<ABAP_HTTP_Port>`: `80<xx>`.  
You can find the required port number by running transaction **SMICM** and choosing *Goto → Services*.
  - *Select BASIC as Authentication.*
  - *Username:* `XIRWBUSER`
  - *Password:* Enter the password that you entered during the SAP XI installation
7. Choose *Save*.



## Performing Basic Configuration Steps

If you get a warning about missing authorizations during this procedure, you can ignore it by pressing *ENTER*.

### Configuring the Role of the Integration Server

1. On your SAP XI host, call transaction **SXMB\_ADM**.
2. In the *Integration Engine: Administration* screen double-click *Integration Engine Configuration*.



Logon data for the user XISUPER is required (see [Creating User XISUPER](#) [on page 32]).

The screen *Integration Engine: Configuration Data* appears.

3. In the screen *Integration Engine: Configuration Data* do the following:
  - a. Choose *Edit → Change Global Configuration Data*
  - b. In the *Global Configuration Data* box select **Integration Server** as *Role of Business System*.



Leave the other fields empty.

4. Save your settings.

### Registering Queues Used by the Integration Server

1. Call transaction **SXMB\_ADM** again.
2. In the *Integration Engine: Administration* screen double-click *Manage Queues*.

The screen *Register Queues* appears.

3. Choose F8 to register the default settings.



If errors occur (because the queue name has already been used, for example), deregister all the proposed queues so that you can reregister them afterwards. To do this, choose *Goto → QRFC Monitor*.

4. Exit the transaction.

## Checking the Installation – Part 1

You can now perform a simple installation check by calling some transactions and links.

1. Log on to your SAP Exchange Infrastructure host and call transaction **SLDCHECK**. Everything is fine if no errors are stated.
2. On your SAP Exchange Infrastructure host, call transaction **SXMB\_IFR**. The page *SAP Exchange Infrastructure 3.0 SR1* should now appear.



You can also start the page by entering the following URL in a Web browser:

`http://<XI_host>:<Java_Port>/rep/start/index.jsp`

where **<XI host>** is the host name of your SAP Exchange Infrastructure host and **<Java Port>** is the HTTP port.

The following naming convention applies for **<Java Port>**:

`5<Java_instance_number>00. 50000`, for example, if your Java instance is **00**.

3. The following links should work.













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Credits to the Original Uploader in AF and thanks to the person involved in making this wonderful documentation with screenshots.

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