

Solution Manager System Copy ABAP+JAVA Windows



Applies to:

SAP Solution Manager SR3 ABAP+JAVA on Oracle Windows. For more information, visit the [Application Management homepage](#).

Summary

This document describes Homogeneous system copy procedure that is based on database-specific methods. As of SAP NetWeaver 2004s you can copy ABAP systems, ABAP+JAVA systems and Java systems in one run using either database-specific methods or database independent methods

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Author Bio

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Method Followed

Database-specific method

Advantages

- You can use existing offline or online backups
- This method is faster than the R3load and Jload method

Documents Referred and Validity

- System Copy for SAP Systems Based on SAP NetWeaver 7.0 ABAP+JAVA.pdf
- Note 1120872 - Hom./Het.System Copy SAP NetWeaver 7.0 SR3
- Note 831812 - Config Tool shows incorrect parameters after System Copy

Caution

This document does not cover all the pre and post activities steps, please refer system copy guide

Software Requirements

DVD Material used

Serial Number	DVD/Material	CD Description
1	51032955	Solution Manager Installation Master SR3
2	51033032	NW700 UC Kernel
3	51032958	Solman JAVA Components
4	51033272	Oracle10G Client

Source system preparations

Creating Offline backup of source system preferably a backup on disk Edit the Configuration files of oracle

initSID.sap which is located at E:\oracle\SID\102\database



Change the parameter backup_dev_type to disk and backup_root dir to directory where you would like to

have your database backup and stage value as well.

```

# default: tape
backup_dev_type = disk
# backup root directory [<path_name> | (<path_name_list>)]
# default: %SAPDATA_HOME%\saphbackup
backup_root_dir = D:\N6Pbackup
# stage root directory [<path_name> | (<path_name_list>)]
# default: value of the backup_root_dir parameter
stage_root_dir = D:\N6Pbackup
# compression flag [no | yes | hardware | only]
# default: no
compress = no

```

Open a command and run the below command for offline backup brbackup -u / -c force -t force -m all

```

E:\>brbackup -u / -c force -t offline_force -m all
BR0051I BRBACKUP 7.00 (24)
BR0055I Start of database backup: bebpdfffc.afd 2009-10-01 20.49.20
BR0484I BRBACKUP log file: E:\oracle\N6P\saphbackup\bebpdfffc.afd
BR0477I Oracle pfile E:\oracle\N6P\102\database\initN6P.ora created from spfile
E:\oracle\N6P\102\database\spfileN6P.ora

BR0280I BRBACKUP time stamp: 2009-10-01 20.49.25
BR0057I Backup of database: N6P
BR0058I BRBACKUP action ID: bebpdfffc
BR0059I BRBACKUP function ID: afd
BR0110I Backup mode: ALL
BR0077I Database files for backup:
E:\ORACLE\N6P\ORIGLOGA\LOG_G11M1.DBF
E:\ORACLE\N6P\ORIGLOGB\LOG_G12M1.DBF
E:\ORACLE\N6P\ORIGLOGA\LOG_G13M1.DBF
E:\ORACLE\N6P\ORIGLOGB\LOG_G14M1.DBF
E:\oracle\N6P\origloga\cntrl\cntrlrN6P.dbf
BR0061I 27 files found for backup, total size 43682.252 MB
BR0143I Backup type: offline_force
BR0112I Files will not be compressed
BR0130I Backup device type: disk
BR0106I Files will be saved on disk in directory: D:\N6Pbackup\bebpdfffc
BR0134I Unattended mode with 'force' active - no operator confirmation allowed

```

Source system export

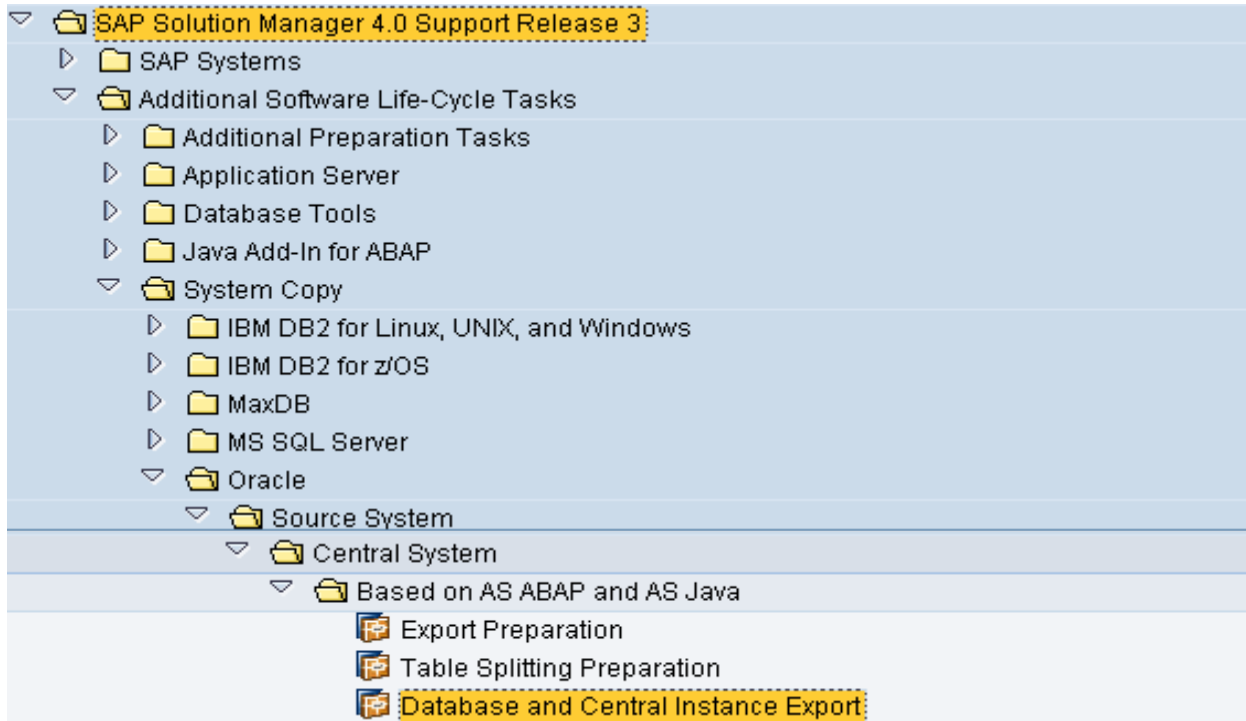
When performing the export you create a MIGRATION EXPORT CD image, which contains the data of the

Exported system, and which you use to install of the target system

The following steps will be performed

- Creating the export directory structure with label files and source system information (if required)
- Creating database structure files (*.STR) for ABAP database objects
- Updating database statistics (depending on the database platform and the selected dialog option)
- Size calculation for the target database (*.EXT, DBSIZE.XML)
- Exporting the ABAP and / or Java database content
- Archiving the SDM
- Archiving application specific file system content

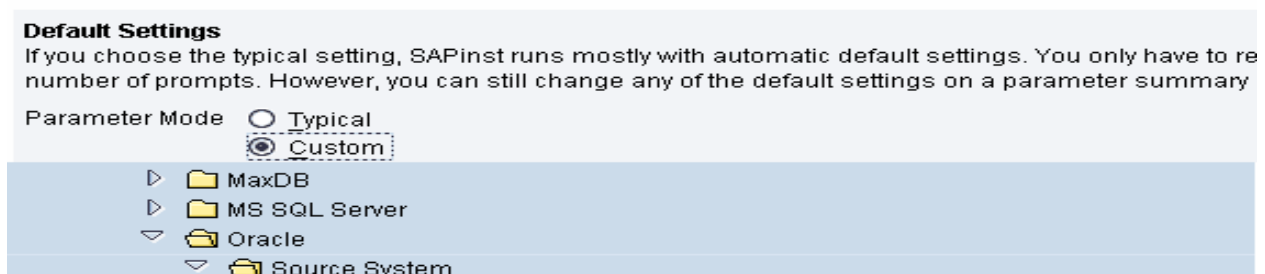
Start SAPinst choose the following path, Additional Software Life-Cycle Tasks->system copy Oracle>Source System->Central system->Based on AS ABAP and AS JAVA Database and central instance Export



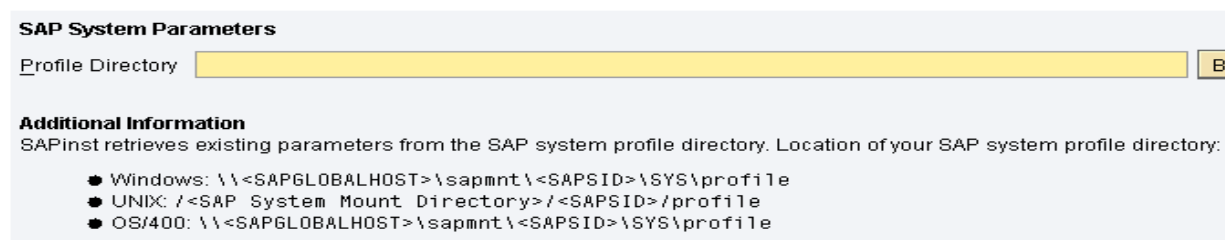
For parameter mode choose custom

Parameter Mode > Default Settings

Choose whether you want to run the SAPinst in a typical or a custom mode



Provide the path of Profile Directory (Source system)



Provide OS user Passwords

SAP System > OS User Passwords

Enter the passwords of the operating system users

SAP System Administrator

Account: *intelprdadm*

Password of SAP System Administrator

Check the box Use database specific tools

System Copy Method

Use database specific tools

Create a directory for the Database export (whatever you like) and provide the path of the directory at this stage SAP system will be stopped

Database Export

Export Location

Stop running system

Chose start at the end to proceed the export

Parameter Summary

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

Export is in progress

Phase 4 of 5

Phase List

- ✓ Database and Central Instance Export
- ✓ Update system DLLs
- ✓ Prepare to export Java
- Export from Java central instance
- Archive Adobe Document Services data

All Phases have been completed




All phases completed

Phase List

- ✓ Database and Central Instance Export
- ✓ Update system DLLs
- ✓ Prepare to export Java
- ✓ Export from Java central instance
- ✓ Archive Adobe Document Services data

Execution of Service SAP Solution Manager
Additional Software Life-Cycle Tasks > System
System > Central System > Based on AS AB
and Central Instance Export has been comp

You can see the Export has created the below file structure directory

Address  D:\N6Pbackup\exportdirectory				
Name	Size	Type	Date Modified	Attribute
 JAVA		File Folder	10/2/2009 7:12 AM	
 LABELIX.ASC	1 KB	ASC File	10/2/2009 7:12 AM	A

Generating the Control File Structure

Purpose:

The OraBRCopy Java tool writes a file CONTROL.SQL to the current working directory this can be used

without further adaptations on target system

Recommendations




We recommend that you shut down the SAP system before you perform the following

Steps .The database must still be running

Where to find that

Copy the ORABRCOPY.SAR archive from the SAP Installation Master DVD to the installation directory and extract it using SAPCAR.

You can find the archive in the following directory on the Installation Master DVD DVD-DIR>:common\install\ora\ORABRCOPY.SAR

 ORA_CREATE_DBUSR.SQL	5 KB	SQL File	2/9/2006 2:10 PM	A
 ORABRCOPY.SAR	117 KB	SAR File	6/9/2007 5:18 PM	A
 ORADBPAR.XML	439 KB	XML Document	4/10/2007 12:31 PM	A

Unrar the file ORABRCOPY.SAR using sapcar command Sapcar -xvf ORABRCOPY.SAR

```
D:\N6Pbackup\Orabrcopy>sapcar -xvf ORABRCOPY.SAR
SAPCAR: processing archive ORABRCOPY.SAR (version 2.00)
x orabrcopy.jar
x ora_br_copy.sh
x ora_br_copy.bat
x OraBRCopy.pdf
SAPCAR: 4 file(s) extracted
```

When uncarred you could see below files with OraBRcopy.pdf

Content of the archive file:

- orabrcopy.jar
- ora_br_copy.sh
- ora_br_copy.bat
- OraBRCopy.pdf

PDF file OraBRCopy.pdf

OraBRCopy Java Tool Users' Guide

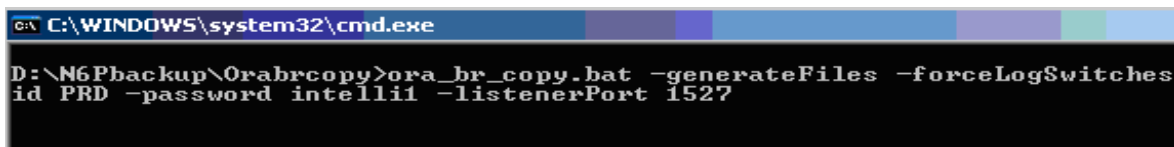
Starting the OraBRCopy Java Tool

OraBRCopy tool need to be executed as OS user with Oracle DBA privileges user

Ora<dbsid> or user <sapsid>adm

Switch the directory to where ORABRCOPY.SAR is uncared and execute the below command as mentioned in OraBRCopy user Guide

ora_br_copy.bat -generateFiles -forceLogSwitches -targetSid <Target_SID> -password <system_user_password> -listenerPort 1527



```

c:\WINDOWS\system32\cmd.exe
D:\N6Pbackup\Orabrcopy>ora_br_copy.bat -generateFiles -forceLogSwitches
id PRD -password intelli1 -listenerPort 1527
  
```

After the execution of the command, the tool created the below files

- CONTROL.SQL
- CONTROL.TRC
- init<TARGET_DBSID>.ora
- ora_br_copy.log
- OraBRCopy.console.log

Note if error occurs check the log file <INSTDIR>/ora.brscopy.log

Preparing the Target System

This section describes the actions which have to be taken on the Target System. If necessary, make a copy of your profiles, a copy of the environment settings

- If necessary, make a copy of your profiles, a copy of the environment settings of your sidadm and oracle user and your ORA sqlnet files.
- Take the backup of config tool so that you can get back the old parameter values later
- Make sure to copy the backup dump of the source system to target system and can be accessible
- If an SAP instance is currently installed on the target server then first remove it
- Clean your target system. Delete your oracle datafiles
- You must use the same Oracle release and patch level for your database in the source and target
- Make sure that JDK version same as source system.
- The JAVA_HOME environment variable must point the JRE directory
- The source and target systems must run on different hosts for security reasons.
- The source and target systems must be binary compatible
- Install the target SAP system using SAPInst
- Install same JDK version as source
- Install same Oracle version and path set as source system

Copy Contro.sql, control.trc, initSID.ora file and

Name	Size	Type	Date Modified
CONTROL.SQL	3 KB	SQL File	10/2/2009 1:33 PM
CONTROL.TRC	4 KB	TRC File	10/2/2009 1:33 PM
initPRD.ora	2 KB	ORA File	10/2/2009 1:33 PM
ora_br_c	2 KB	Windows Batch File	6/9/2007 4:48 PM
ora_br_c	3 KB	Text Document	10/2/2009 1:34 PM
ora_br_c	0 KB	LCK File	10/2/2009 1:33 PM
ora_br_c	2 KB	SH File	6/9/2007 4:48 PM

Paste it at target system oracle home directory Drive:\oracle\SID\102\database

Name	Size	Type	Date Modified
archive		File Folder	10/2/2009 3:03 PM
oradba.exe	31 KB	Application	6/25/2005 5:18 AM
initN6P.sap	22 KB	SAP GUI Shortcut	10/1/2009 8:45 PM
CONTROL.TRC	4 KB	TRC File	10/2/2009 1:33 PM
initPRD.ora	2 KB	ORA File	10/2/2009 1:33 PM
CONTROL.SQL	3 KB	SQL File	10/2/2009 1:33 PM

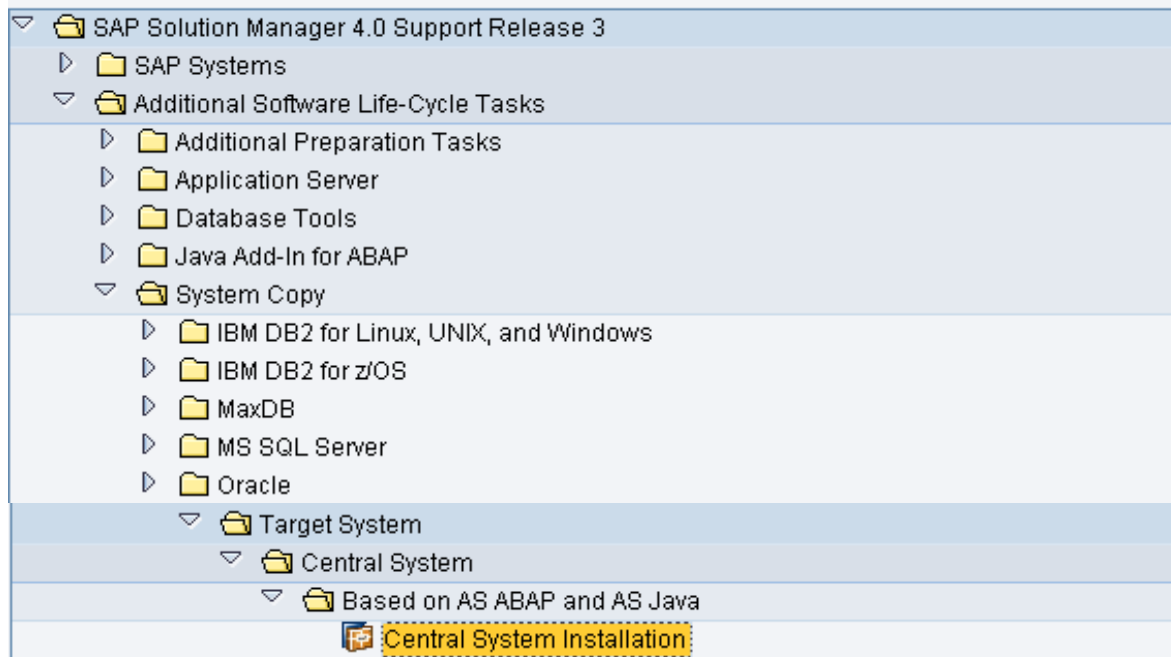
Copy initSID.sap file from source system backup file to ORACLE_HOME directory and edit the file to target system SID

Target system Installation

Start SAPinst Choose the following path:

Additional Software Life-Cycle Tasks->system copy Oracle->Target System->Central System>Based on AS ABAP and AS JAVA->Central system installation

Select the service that you want to install



Choose parameter Mode Custom

Parameter Mode > Default Settings

Choose whether you want to run the SAPinst in a typical or a custom mode

Default Settings

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

Parameter Mode Typical
 Custom

Provide the path for the java component

Software Package(s)

Media Name	Package Location		Copy
Java Component SOLMAN40SR3	D:\SolmanSR3\SOLMANSR working set\Java	Browse...	

Provide the path for the JDK installed directory

Java Development Kit

SAPinst has found a valid JDK directory. The installed JDK has version 1.4.2_17.
Confirm that you want to use this JDK directory.

JDK Directory

Provide the target system SID and installation Drive

SAP System Parameters

SAP System ID (SAPSID)

Installation Drive

Unicode System (recommended)

Select Local installation

SAP System User Domain

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

Windows Domain

Select installation method as Homogeneous system copy (Backup/Restore)

Database Installation

Installation Method Standard System Copy / Migration (load-based)
 Homogeneous System Copy (Backup/Restore)

Start Migration Monitor manually

Select the database SID of Target system

Database Parameters

Database ID (DBSID)

Database Host

Additional Information

If you want to use an existing database with a valid database release for this installation, enter the database SID and database name.

Error occurred

```
FSL-02077 File system export (share) saploc does not exist.
```

```
✘ ERROR 2009-10-02 15:32:38.609
```

```
FJS-00003 ReferenceError: row is not defined (in script  
NW_Doublestack_OneHost|ind|ind|ind|ind, line 95571: ???)
```

```
✘ ERROR 2009-10-02 15:32:38.671
```

```
FCO-00011 The step checkForLoadType with step key  
|NW_Doublestack_OneHost|ind|ind|ind|ind|0|0|NW_Onehost_System|ind|in  
d|ind|ind|1|0|NW_CreateDBandLoad|ind|ind|ind|ind|10|0|NW_CreateDB|in  
d|ind|ind|ind|0|0|NW_OradbCheck|ind|ind|ind|ind|0|0|checkForLoadType  
was executed with status ERROR .
```

As per the note: Note 1120872

Error during system copy with Oracle-specific procedure

During a system copy with the Oracle-specific procedure, the following error may occur:

```
ERROR 2007-01-04 21:48:25 [jaxxejsbas.cpp:178] EJS_ErrorReporter
```

```
FJS-00003 Reference Error: row is not defined (in script NW_Java_DB|ind|ind|ind|ind, line 90323: ???)
```

```
ERROR 2007-01-04 21:48:25
```

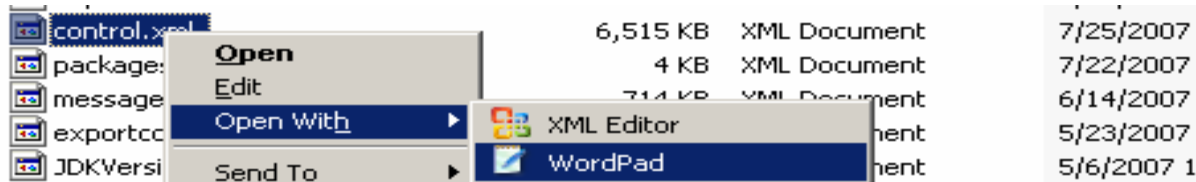
```
FCO-00011 The step checkForLoadType with step key
```

```
|NW_Java_DB|ind|ind|ind|ind|0|0|NW_CreateDBandLoad|ind|ind|ind|ind|9|0|NW_CreateDB|ind|ind|ind|ind|0|0|  
|NW_OradbCheck|ind|ind|ind|ind|0|0|checkForLoadType was executed with status ERROR
```

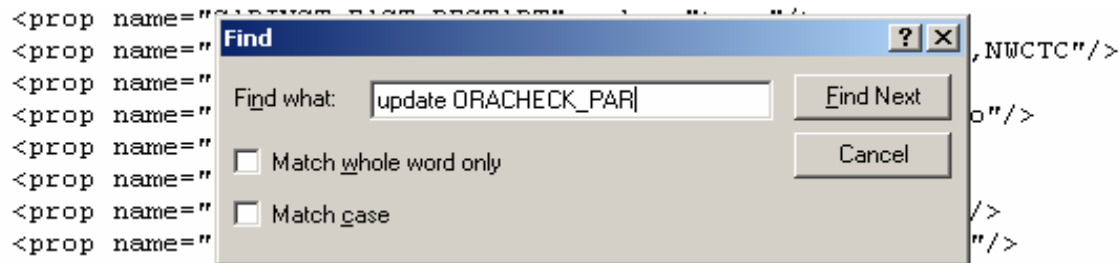
Solution:

Edit the control.xml in the installation directory, Search for "update ORACHECK_PAR" and delete the row "row.createDb = false;" underneath

Check the installation directory sapinst_instldir for control.xml file and open the file with WordPad



Search for "update ORACHECK_PAR"




Remove the entry oracom.setCreatedb) false) and save the file at the end and retried the installation at every thing went fine


```
{
  gui.update("Oracle Backup Restore...");

  // update ORACHECK_PAR
  row.createDb = false;
  context.set("createDb", false)
  oracom.setCreateDb(false);
}
}
```

Enter the ABAP Schema id by default it will be SAPSR3 and for Java Schema SAPSR3DB for all latest releases

Database Instance Parameters

DB Home 

DB Server Version 

Instance Memory

Instance RAM [MB] Total RAM [MB]

Database Schema Parameters

The new default for *ABAP Schema* is *SAPSR3* and the new default for *Java Schema* is *SAPSR3DB*.

ABAP Schema

Password of ABAP Schema


Confirm


Java Schema

Password of Java Schema

Provide the installation drive for SAPDATA

Database Server Drives

Drive for sapdataHome 

Drive for Oracle Archives (oraarch) 

Local Drives	Free Space [MB]
E:	107200
D:	30500
C:	14400

Provide the required passwords

Oracle Database Users

Password of 'sys'

Confirm

Password of 'system'

Confirm

Provide the required instance numbers

Detected SAP System Instances
SAPInst found the following SAP system instances on this host:

SAP System ID (SAPSID)	Instance Number	Instance Name

Central Instance Parameters
Central Instance Number

SCS Instance Parameters
SCS Instance Number

Leave it default

Central Instance Parameters

ABAP Messaging Service Port

Internal ABAP Messaging Service Port

Host with Transport Directory

SCS Instance Parameters

Internal SCS Messaging Service Port

Enter the Migration Export of the Java source system

Software Package(s)

Media Name	Package Location	
Migration Export	D:\N6Pbackup\exportdirectory\JAVA\LABEL.ASC	<input type="button" value="Browse..."/>

Enter the J2ee admin user name and password

Existing J2EE Engine

Enter name and password of the J2EE Engine administrator user of the source system **N6P**. This account system copy. You can change the values after the system copy.

Administrator User

Password of Administrator User

Confirm

Enter SDM password

SDM Server Connection

Password for SDM

Confirm

Additional Information

The password of SDM that is entered here is needed to connect the SDM GUI to the SDM server.

Enter DDIC password

DDIC Users in SAP System Clients

Account: *DDIC*, client *000*

Password of 'DDIC' in client 000 in the source system

Additional Information

SAPinst needs to create an RFC connection to the system that you are installing.
A *SAP System Client* is a self-contained unit in an SAP system with separate master records and its own data is *SAP System Client*-specific.

Provide the patch for software package kernel and Oracle client

Software Package(s)

Media Name	Package Location
Kernel NW70	D:\SolmanSR3\SOLMANSR_working_set\kernel\KU_WINDOWS_X86
Oracle Client	D:\oracle64bit\51033272_CLIENT

Parameter summary proceed to start the installation

Parameter List

Parameter Mode > Default Settings

Parameter Mode

Media Browser > Software Package Request

Media Name	Package Location	Copy Package To
Kernel NW70	D:\SolmanSR3\SOLMANSR_worki...	
Oracle Client	D:\oracle64bit\51033272_CLIENT	

SAP System > Java Development Kit

JDK Directory

SAP System > SAP Instance

Installation is in progress



At phase 10 Backup/Restore database installation stops and you need to restore your database from your offline backup of your source system now










Note:

Don't close this window session

Task is running



Now copy CONTROL.SQL file and paste it at Installation directory sapinst_instdir

Address  D:\N6Pbackup\Orabrscopy				
Name	Size	Type	Date Modified	Attributes
 CONTROL.SOL	3 KB	SQL File	10/2/2009 1:33 PM	A
 CONTROL.T	4 KB	TRC File	10/2/2009 1:33 PM	A
 initPRD.ora	2 KB	ORA File	10/2/2009 1:33 PM	A
 ora_br_cop	2 KB	Windows Batch File	6/9/2007 4:48 PM	A
 ora_br_cop	3 KB	Text Document	10/2/2009 1:34 PM	A
 ora_br_cop	0 KB	LCK File	10/2/2009 1:33 PM	A
 ora_br_cop	2 KB	SH File	6/9/2007 4:48 PM	A
 OraBRCopy	3 KB	Text Document	10/2/2009 1:34 PM	A

Note:

There is no change of source and target system file structure in my scenario if there is any changes in your scenario edit the files accordingly as per your file structure of sapdata/origlogs/mirrorlogs If your Target system is new system build then create the following directories accordingly

■ Windows:

- <drive>:\oracle\<TARGET_DBSID>\mirrlog<x>
- <drive>:\oracle\<TARGET_DBSID>\origlog<x>
- <drive>:\oracle\<TARGET_DBSID>\sapdata<x>
- <drive>:\oracle\<TARGET_DBSID>\sapreorg
- <drive>:\oracle\<TARGET_DBSID>\saparch
- <drive>:\oracle\<TARGET_DBSID>\oraarch
- <drive>:\oracle\<TARGET_DBSID>\saptrace
- <drive>:\oracle\<TARGET_DBSID>\saptrace\background
- <drive>:\oracle\<TARGET_DBSID>\saptrace\usertrace
- <drive>:\oracle\<TARGET_DBSID>\origlogA\cntr1
- <drive>:\oracle\<TARGET_DBSID>\sapdata1\cntr1
- <drive>:\oracle\<TARGET_DBSID>\saparch\cntr1
- <drive>:\oracle\<TARGET_DBSID>\sapcheck

Make sure that the following directories are empty (except the subdirectory saparch/cntr1):

/oracle/<TARGET_DBSID>/saparch and /oracle/<TARGET_DBSID>/oraarch

<drive>:\oracle\<TARGET_DBSID>\saparch and <drive>:\oracle\<TARGET_DBSID>\oraarch

Switch to directory Drive:\usr\sap\SID\SYS\exe\uc\NTAMD64 and execute the command

brrestore -m full -b <Backupfile name>

```

E:\usr\sap\PRD\SYS\exe\uc\NTAMD64>brrestore -m full -b bebpdfffc.afd
BR0401I BRRESTORE 7.00 (24)
BR0405I Start of file restore: rebphfjm.rsb 2009-10-02 16.22.58
BR0484I BRRESTORE log file: E:\oracle\PRD\sapbackup\rebphfjm.rsb

BR0454W Values of oracle_sid are different: current 'PRD', backup bebpdfffc.afd '
N6P'
BR0455W Value 'PRD' of oracle_sid will be used for restore
BR0454W Values of oracle_home are different: current 'E:\oracle\PRD\102', backup
bebpdfffc.afd 'E:\oracle\N6P\102'
BR0455W Value 'E:\oracle\PRD\102' of oracle_home will be used for restore
BR0454W Values of sapdata_home are different: current 'E:\oracle\PRD', backup be
bpdfffc.afd 'E:\oracle\N6P'
BR0455W Value 'E:\oracle\PRD' of sapdata_home will be used for restore
BR0460W Termination message not found in E:\oracle\PRD\sapbackup\bebpdfffc.afd -
log file incomplete (this is OK if the log file was restored)
BR0280I BRRESTORE time stamp: 2009-10-02 16.22.58
BR0256I Enter 'c[ont]' to continue, 's[top]' to cancel BRRESTORE:

```

Once the restore is completed proceed with your sap installation by pressing OK

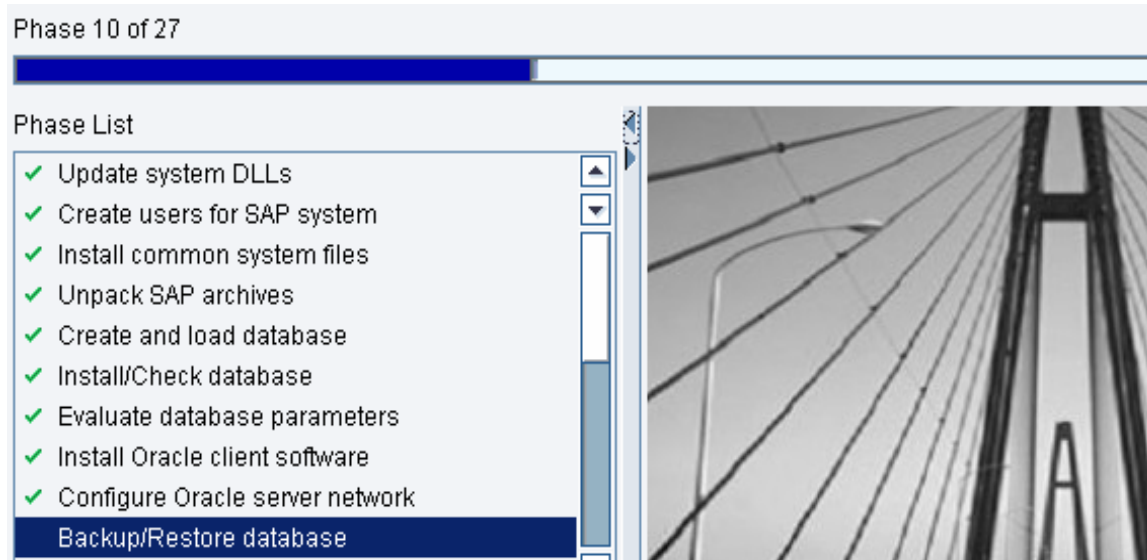
```

BR0351I Restoring E:\oracle\PRD\sapdata1\cntrl\cntrlN6P.dbf
BR0355I from E:\oracle\PRD\origlogA\cntrl\cntrlN6P.dbf ...

BR0406I End of file restore: rebphfjm.rsb 2009-10-02 16.49.53
BR0280I BRRESTORE time stamp: 2009-10-02 16.49.54
BR0403I BRRESTORE completed successfully with warnings

```

Proceed with sap installation by pressing OK button



Press OK to uninstall source system schema

Database Schemas

Drop	Schema
<input checked="" type="checkbox"/>	OPS\$IILABS1\N6PADM
<input checked="" type="checkbox"/>	OPS\$IILABS1\SAPSERVICESR3
<input checked="" type="checkbox"/>	OPS\$IILABS1\SAPSERVICEN6P

Error occurred

```

✖ ERROR 2009-09-30 23:47:14.875
CJS-30023 Process call 'E:\usr\sap\PRD\SYS\exe\uc\NTAMD64\saplicens
e.exe -R3Setup PRD XXXXXX TRACE=2' exits with error code -2. For
details see log file(s) saplicense.log, dev_slic.
✖ ERROR 2009-09-30 23:47:14.953
FC0-00011 The step createTempLicense with step key
|NW_Doublestack_OneHost|ind|ind|ind|ind|0|0|NW_Onehost_System|ind|in
d|ind|ind|1|0|NW_CreateDBandLoad|ind|ind|ind|ind|10|0|NW_Postload|in
d|ind|ind|ind|10|0|NW_Postload_ORA|ind|ind|ind|ind|0|0|createTempLic
ense was executed with status ERROR .

```

Upon checking the log s could find SAP is unable to connect to database so I have check the listener process and it was not started, I manually restarted the listener process

```

*****
*
* ERROR          Connect to database failed
*
* TIME           wed sep 30 23:47:14 2009
* RELEASE        700
* COMPONENT      SLIC
* VERSION        300
* RC             99
* MODULE         slicdb.c
* LINE           150
* DETAIL         dbSlConnect failed with return code 99

```

Installation has been completed successfully

Phase List

- ✓ Post load activities
- ✓ Perform post-load activities
- ✓ Install central instance
- ✓ Install instance basics
- ✓ Start central services instance
- ✓ Start instance
- ✓ ABAP post installation activities
- ✓ Check DDIC password
- ✓ Run ABAP Reports
- ✓ Install Java engine
- ✓ Run Java migration toolkit
- ✓ Perform post-steps for Java applications

Execution of Service SAP Solution Manager 4.0 Support Release 3 >
 Additional Software Life-Cycle Tasks > System Copy > Oracle > Target
 System > Central System > Based on AS ABAP and AS Java > Central
 System Installation has been completed successfully

OK

Execution of Service has been completed successfully

Post Activity steps

ABAP

Perform follow-up activities in the target system as you normally would do after a Homogeneous System Copy, Follow the system copy guide for post steps

JAVA

Follow Note 831812 - Config Tool shows incorrect parameters after System Copy, follow system copy guide for post steps

Related Content

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http://help.sap.com/saphelp_nw70/helpdata/EN/4b/d8f23ea4b42e5ae10000000a114084/frameset.htm

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