## Oracle

Check the settings for the following parameters in the init<SAPSID>.ora file. The listed values are minimum values. Use these settings to ensure smooth operation of the SAP System:

shared\_pool\_size = 52428800 db\_block\_buffers = 9000 sort\_area\_size = 2097152 End of the database-specific explanations

# **Process Flow**

You upgrade the system in several different steps.

### MSCS Cluster

In an MSCS cluster configuration, all the steps, except the SAP upgrade and Kernel upgrade, need to be performed on each node of the cluster.

1. Operating system upgrade

- 2. Database migration or database upgrade
- 3. PREPARE

4. Upgrade

You must also perform different steps to prepare for running the PREPARE program or the upgrade.

Upgrade your oracle version supported for the present R3 system.

# PREPARE

# Use

Use the **PREPARE** program to prepare your SAP System for the upgrade.

□ You can execute this program while the system is running.

□ It checks the requirements for the upgrade and provides further information when executing the optional module.

□ Import a number of tools into your database.

□ It copies data and programs to the upgrade directory.

PREPARE performs the majority of the required checks automatically. Afterwards, you must also check the operating system, database and SAP System manually as well.

# **Prerequisites**

You must meet a number of requirements before you run the **PREPARE** program. These are described in the section User Actions Before Starting PREPARE.

### Features

All the actions performed by PREPARE execute in phases. These phases are combined into PREPARE modules. A complete list of the modules and the phases which execute in these modules can be found in the phase list for PREPARE.

The **PREPARE** modules have the following features:

□ They can be mandatory or optional.

□ They can have predecessors which must first be executed. For example, the analysis tools must be imported before they can be executed.

□ There are PREPARE modules which you must only execute once and those which you can execute as often as you require.

□ PREPARE modules can be executed individually.

The following graphic gives an overview of all the PREPARE modules and their predecessors.

CD Read CD Read

Initialization Initialization Required checks for conversions Required checks for conversions Optional checks for conversions Optional checks for conversions Modification support Modification support Activation checks Activation checks General checks General checks Preliminary execution Preliminary execution Parameter entry Parameter entrv

For more information about the contents and features of the PREPARE modules, see the online help for PREPARE. You can find it easily by choosing *Help* when selecting the modules.

# **Results of PREPARE**

PREPARE writes the results for the modules that you selected for execution to the file CHECKS.LOG. This file is in the subdirectory log of the upgrade directory. Look at this file and carry out the necessary measures based on the information it contains. To be sure that all the requirements are met, you can choose certain PREPARE modules more than once. If the file CHECKS.LOG already exists, it is overwritten each time a module is executed again. Its contents are saved in file CHECKS.SAV.

# **Creating the Upgrade Directory**

# Use

For the upgrade and the <code>PREPARE</code> program, you need to have a <code>\usr\sap\put</code> directory on the

host with the central instance. This directory is also called the upgrade directory. The following table shows the size of this directory. The database and source release you use can change this size by up to 25%.

# Required Disk Space in the Subdirectories of the Upgrade Directory Data exe Log Remaining Total

700 100 400 400 1600

The Repository Switch uses dynamic sections in  $\usr\ap\put\data$  and  $\usr\ap\put\log$ . We recommend creating the directory with more space

than specified in the table above if your systems include extensive customer developments or large amounts of individual documentation. If you want to include Support Packages and add-ons in the upgrade, you also need to make these directories larger.

Additional space of up to 300 MB is also required in the directory \usr\sap\put for each language other than English or German.

### Procedure

1. On the host with the central instance create the subdirectory put in the file structure  $\ \ (SAPGLOBALHOST) \ sapmnt.$ 

If you cannot create the upgrade directory under the share sapmnt, or you could not use the default path \usr\sap\put, you can find more information under

If the upgrade directory \usr\sap\put already exists, check whether it still contains data from the previous upgrade. In this case, we recommend backing up at least

\usr\sap\put\log for documentation purposes.

2. Make sure that the \usr\sap\put directory is empty before starting PREPARE.

# **Procedure**

To substitute the SAP Kernel, proceed as follows:

1. Stop the SAP System.

Stop all SAP programs and all Microsoft Management Consoles. Stop the services SAP<SAPSID> <INSTANCENO> and SAPOSCOL.

3. Before substituting the SAP Kernel, back up the existing Kernel directory.

4. To substitute the SAP Kernel, open a command prompt and go to the SAP Kernel directory \usr\sap\<SAPSID>\sys\exe\run.

5. Use the following command to unpack the new Kernel from the CD SAP Kernel:

<CD\_D>:\NT\I386\SAPCAR.EXE -xvf <CD\_D>:\NT\I386\KRNLUPGR.SAR

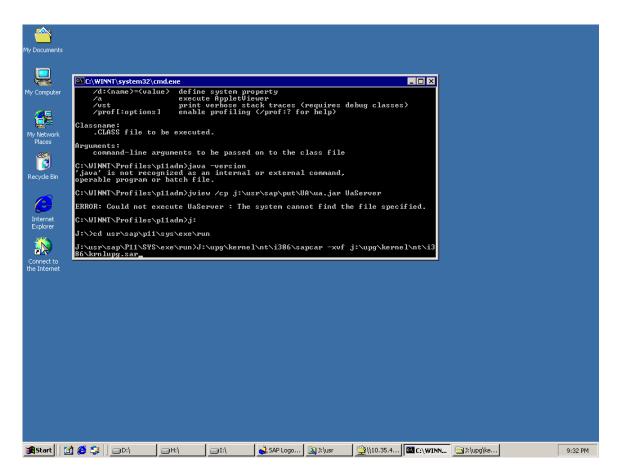
(DEC-ALPHA: <cd\_d>:\nt\alpha\sapcar.exe -xvf <cd\_d>:\nt\alpha\krnlupgr.sar) <CD D:> is the CD drive.

Stop SAP services 1. saposcol & Sapservice <sid>

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Backup the run folder in usr\sap\sid\sys\exe\run

Execute the following



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# **Checking Database-Specific Requirements for PREPARE**

# Oracle 8: At least Version 8.0.4

# **Starting PREPARE for the First Time**

# Use

You can use PREPARE in scroll mode or with the Upgrade Assistant. We recommend that you use the Upgrade Assistant to execute PREPARE. To copy and unpack it from the CD, you must start PREPARE once directly from the CD.

# **Prerequisites**

Make sure that you have met all prerequisites for PREPARE; see User Actions Before Starting PREPARE [Page 60].

# **Procedure**

1. Make sure that the database and the SAP System have been started.

- 2. Insert the SAP Kernel CD.
- 3. Log on to the host on which the central instance is running as user <SAPSID>ADM.

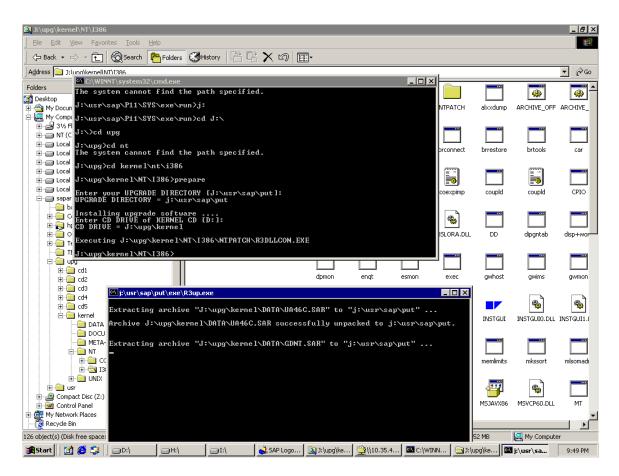
4. In the *Windows NT Explorer*, change to subdirectory NT\1386 (or NT\ALPHA) on the CD drive. Start **PREPARE.EXE**.

Directory \usr\sap\put\ua is created, in which the Upgrade Assistant is unpacked.

- 5. Now decide which display mode you want:
- a. Scroll mode: Enter SCROLL.
- b. Upgrade Assistant: Confirm the default value **SERVER**.

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Enter the path of the upgrade directory as shown above also enter the drive where kernel cd is located

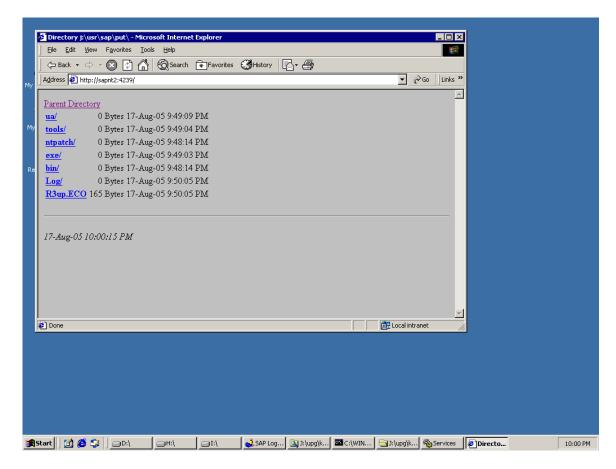


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Make sure that the database is open and services started.

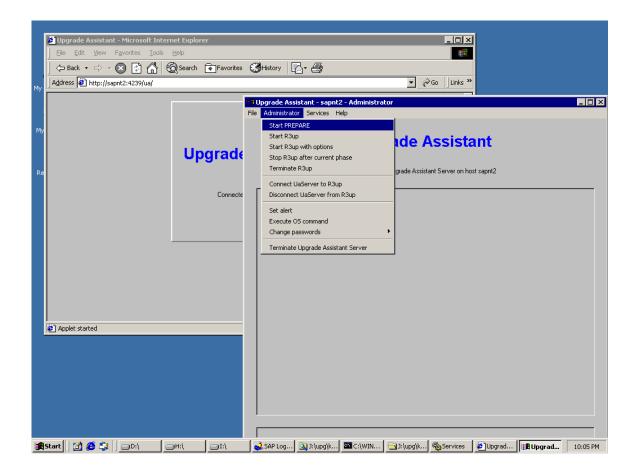
After that go to internet explorer and type "hhtp://?<hostname>:4239 You will get the below screen



Choose "UA" to get get below screen Enter user name "administrator & password "admin" After which you will get the below screen

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	It is essential that you get a current version of this Note before starting the upgrade with R3up. It contains a keyword which is necessary to start the upgrade procedure.				
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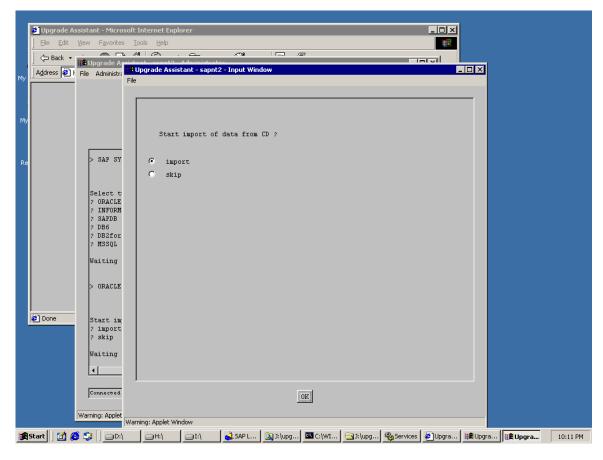


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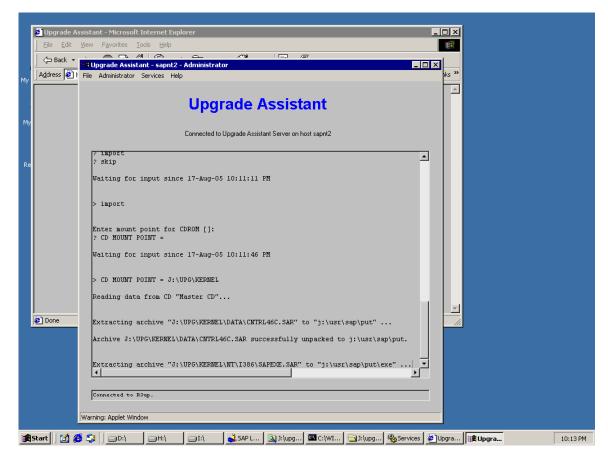
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7:04 PM 1. Check the value of the parameter shared pool size in the file

<code>%ORACLE HOME%\database\init<SID>.ora. If the value is lower than 50 MB, increase</code> it to at least 50 MB and restart the database.

2. Log on as user <SAPSID>ADM at the operating system level.

3. Log on to the database as the Oracle user SYSTEM (default password is manager) with the appropriate Server Manager for your database release (svrmgr23, svrmgr30).

4. Check the resource quotas of the database user sapr3:

Oracle error 1536 can occur during the upgrade if the resource guotas of the database user SAPR3 are limited. Make sure that these quotas are unlimited. Check whether table DBA SYS PRIVS contains one of the following entries:

grantee='SAPR3',privilege='UNLIMITED TABLESPACE',adm='YES' grantee='SAPR3',privilege='UNLIMITED TABLESPACE',adm='NO'

To do this, enter the following SQLPLUS command:

select \* from dba sys privs where grantee = 'SAPR3';

If this entry does not exist, enter the SQLPLUS command:

grant unlimited tablespace to sapr3;

5. Log off from the database with the command exit.

6. Make sure that the storage parameters MAXEXTENTS and NEXT have the correct values for certain tables and indexes. Otherwise, they may overflow during the upgrade. Note 201874 contains the tables and the required minimum values.

You can display the current settings with SAPDBA. The index names are not constant. However, you can also determine these names with SAPDBA. Note 11777 describes how to change the parameters NEXT and MAXEXTENTS.

### 7. For Source Releases 3.0x/3.1x Only:

In Release 3.0/3.1, the rule-based mode is the standard setting for the database optimizer. If you were working with the cost-based mode before the upgrade, you have to change the mode now.

Make sure that parameter OPTIMIZER MODE has the following setting in the Oracle profile

<ORACLE\_HOME>\DATABASE\init<SAPSID>.ora:
OPTIMIZER MODE=RULE

If you have to change the parameter, restart the database afterward.

8. Check the value of the storage parameter MAXEXTENTS for the tablespace PSAPTEMP. If you are not sure, execute the script psaptemp.sql as the database administrator. This script sets the value of MAXEXTENTS to UNLIMITED.

This script is located in the bin subdirectory of the upgrade directory.

In the start profile (<SPECIFICATION><INSTANCE\_NO>\_<HOSTNAME>), delete parameter AUTOSTART = 1 if it is set.

Setting parameter Autostart = 1 causes the SAP service **and** the SAP System to start when the Windows NT system is booted. This mechanism must be switched off during the upgrade.

# **Prerequisites**

You must be able to log on to the system in client 000 as user DDIC. The initial password for DDIC is **19920706** in a newly installed system.

If you need to adjust modifications, log on to client 000 as the appropriate user and call Transaction SPDD. This must be a user other than DDIC. DDIC cannot make the modification adjustment.

User DDIC needs to have the authorization SAP\_ALL to be able to perform all the actions required during the upgrade.

If your system contains profile SAP\_NEW, make sure that the following users are assigned this profile in addition to their existing profiles:

□ SAP\*

□ The user who performs the modification adjustment with Transaction SPDD

If the profile SAP\_NEW is **not** available in your system, we recommend temporarily assigning the profile SAP\_ALL to the user who performs the modification adjustment with Transaction SPDD. Remove this assignment after the upgrade.

If you modified SAP objects in your SAP System, make sure that you meet the requirements for the modification adjustment.

In particular, make sure that changes to the Repository are allowed in the client in which you want to perform the modification adjustment. To check this, use Transaction SCC4.

Various background jobs are started during the upgrade. When you schedule time-dependent jobs, a check is made to see whether the SAP instance that you want to run them on is defined in an operation mode. The operation mode specifies which services are offered by the work processes (dialog, update, background processing, enqueue, spool, and so on).

### **Prerequisites**

No operation modes must contain servers that do not belong to the current system.

### **Procedure**

1. Before starting the upgrade, use Transaction RZ04 to check the definition of your operation modes. Also check the operation mode DUMMY. In the case of operation mode DUMMY, in particular, the server name may be entered as <host\_name>\_<SAPSID>. Change this entry to <host\_name>\_<SAPSID>\_<instance\_number>.

2. Delete the invalid operation modes. If operation modes contain names of servers other than those belonging to the system, problems may arise in the background interface in some phases. The jobs may be released, but not set to status *active* (in theory, this affects all jobs scheduled to start on a specific server triggered by an event).

3. If the SAP instance on which you want to upgrade the system is not entered in an operation mode, create the operation mode for the upgrade as follows:

a. Call Transaction RZ04.

b. Choose Operation mode  $\Box$  Create.

Enter a name for the operation mode, for example, **Upgrade**. Enter a short description and then save the operation mode.

c. Make sure that the instance required for the upgrade has been started up.

d. Position the cursor on the new operation mode and choose *Operation mode*  $\Box$  *Maintain instances*  $\Box$  *Operation mode view.* 

e. Choose Settings 
Based on current status 
New instances 
Generate.

All instances and their current configuration appear.

f. Choose Save.

g. Enter the operation mode you have defined as an active operation mode for 24 hours using Transaction SM63. Select *Normal operation (24 hours)*.

# Phase DBCHK

# Use

This phase determines the version of the database and the release of the SAP System. R3up calls the transport control program tp, which logs on to the database and reads the necessary information from there. Any problems in this phase are normally due to the database connection being broken.

# Activities

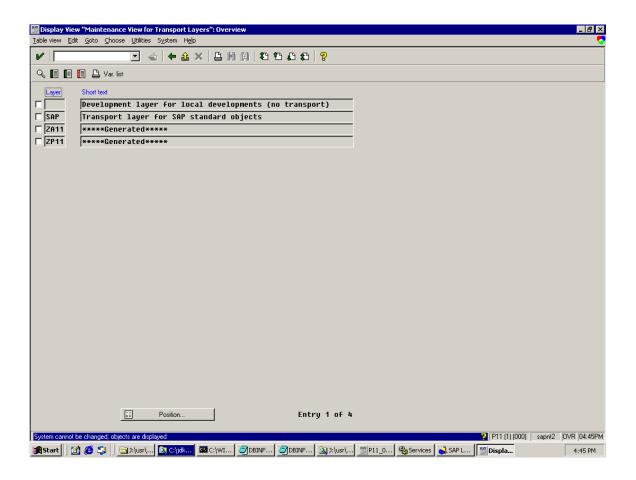
If the error message No information received from the database appears, check the file SLOG46C in the subdirectory log of the upgrade directory. A frequent source of problems with tp is an incorrectly configured Change and Transport System.

If this is the case, call Transaction SE06 in the SAP System as user DDIC.

# Release 3.x – 4.5B:

1. Go to the initial screen of Transaction SE06, choose *New installation* as the system status and select the correct *System configuration*. Choose *Install*.

2. Confirm any other dialog boxes with Yes or *Continue* until the system settings have been completed. Then exit the transaction.

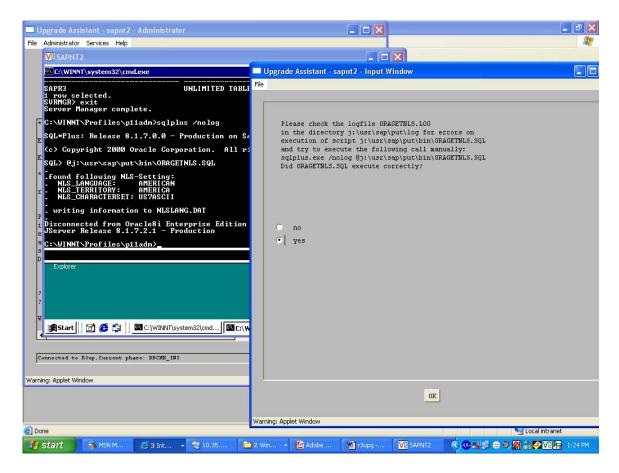


# Phases INTCHK and INTCHK\_SW

# Use

This phase checks if the inactive nametab is empty An error is returned if it is not empty. **Activities** 

- 1. To determine the objects that are affected, display the log file DDXTTCHK.LOG.
- 2. Activate these objects with Transaction SE11.
- The inactive nametab is then empty.
- 3. Call R3up again using repeat.



error for dbchk

For RFCCHK\_INI

If gateway not connected. Partner not reached Check SM59 if error is local gateway not running GWRD is the service running on port 3300 Force start thois service by running GWRD –force

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& login with DDIC user for te	est connection			
x login with DDIC user for it				

use transaction smgw,

& restart.

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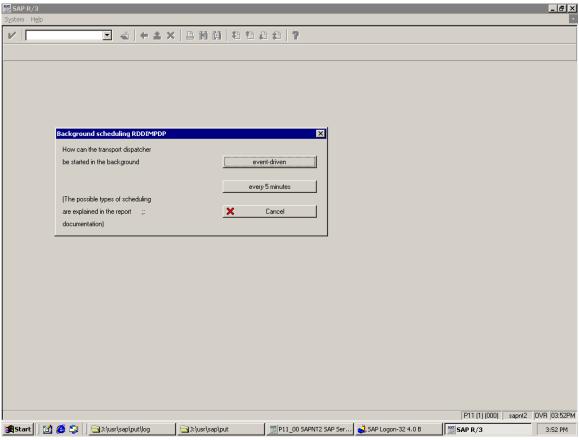
Upgrade Assistant - sapnt2 - Input Window	
File	
The PREPARE module Import will be started now.	
During this module programs, structures, and table entries required by PREPARE are imported (the socalled "tool import").	
Note: This can cause a loss of performance in R/3	
In rare cases, a concurrent transport via the transport directory may disturb the tool import. Please avoid any concurrent import during this PREPARE module.	
Continue	
Warning: Applet Window	

Upgrade Assistant - sapnt2 - Upgrad	le Monitor 📃 🗖 🔀
File	
File	Information Waiting for "Another Monitor (started first) ", : General information: 
Milestone runtime	0 %
Upgrade runtime	0 %
Warning: Applet Window	

Upgrade Assistant - sapnt2 - Upgrad	le Monitor 📃 🗖 🔀
File	
	Information  General information:  I) Values over 100% indicate a longer run time th this is not an error  The active upgrade phase may differ from the p in the monitor for a time of 20 seconds  Upgrade Monitor starting with a period of 20 seco Insufficient data to calculate the Forecast Reco Insufficient data to calculate the Fo
Milestone runtime	0 %
Upgrade runtime	0 %
Warning: Applet Window	

	Upgrade Assistant - sapnt2 - Input Window	
File		
	A batch job RDDIMPDP must be running in your SAP system with event trigger enabled. If this is not the case, start report RDDNEWPP as user DDIC with transaction SE38.	
	Exactly one batch job RDDIMPDP is released (check with SM37)	
	scheduled	
	© exit	
	OK)	
War	ning: Applet Window	

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Program Edit Goto Utilities Environment System	n H <u>e</u> lp				
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Image: Image					
Background job RDDIMPDP successfully scheduled in	client 000			P11 (1) (000) sapnt2	OVB 03:52PM
Start C C C C C C C C C C C C C C C C C C C	[ ]:\usr\sap\put	P11 00 SAPNT2 SAP Ser	SAP Logon-32 4.0 B	BABAP/4 Editor: Initial	



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

Converted to PDF by Jimstex for <u>SAP Database – Unoffical SAP Knowledge Base</u>