

Agile
Version e6.1

ORACLE

Oracle® Agile Engineering Data Management

Installation Manual for Oracle 11gR2 on
Windows for Agile e6.1.2

Part No. E20352-01

April 2011

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CONTENTS

Copyright and Trademarks	iii
Preface	v
Introduction	1
Where to Go for More Information.....	1
Requirements	3
Hardware and Software Requirements	3
Prepare the System.....	5
Download Oracle Installation Media	5
Extracting the Installation Files.....	5
Installing Oracle 11gR2	7
Start the Oracle Database 11gR2 Installation	7
Install the Oracle Client	14
Database Creation.....	19
Configuring tnsnames.ora and sqlnet.ora	33
Modify the Oracle Database	39
Create Directories for the Oracle Data Pump Utility.....	39
Create a Database User and Role	39
Using SQL to Create a Role	39
Using SQL to Create a User	40
Using Enterprise Manager Database Control to Create a User	40
Import the Database Dump	42
Compile All Invalid Objects in Schema PLM	42
Gather Statistics	43
Uninstall Oracle for Windows	43
Troubles during Database Creation	44

Preface

The Oracle documentation set includes Adobe® Acrobat™ PDF files. The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) (<http://www.oracle.com/technology/documentation/agile.html>) contains the latest versions of the Oracle Agile EDM PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Oracle Documentation folder available on your network from which you can access the documentation (PDF) files.

Note To read the PDF files, you must use the free Adobe Acrobat Reader™ version 7.0 or later. This program can be downloaded from the [Adobe Web site](http://www.adobe.com) (<http://www.adobe.com>).

Note Before calling Agile Support about a problem with an Oracle Agile EDM manual, please have the full part number, which is located on the title page.

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Readme

Any last-minute information about Oracle Agile EDM can be found in the Release Notes file on the [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile_eseries.html) (http://www.oracle.com/technology/documentation/agile_eseries.html)

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Go to the [Oracle University Web page](http://www.oracle.com/education/chooser/selectcountry_new.html) (http://www.oracle.com/education/chooser/selectcountry_new.html) for more information on Agile Training offerings.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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Introduction

This guide describes how to install Oracle 11gR2 and adapt the Oracle database for use with Agile e6.1.2, running under Windows 2008 SP2 / 2008 R2

Where to Go for More Information

For additional information, consult the Oracle online installation and administration documentation.

http://www.oracle.com/pls/db112/portal.portal_db?selected=11

Chapter 2

Requirements

Hardware and Software Requirements

Requirement	Minimum Value
Physical memory (RAM)	Minimum 1GB Refer to the Hardware Sizing documentation to determine the required memory for your specific Oracle Server installation.
Virtual memory	Double the amount of RAM
Disk space for software files	8 GB (8388608 KB). It could be smaller depending on the components chosen to be installed.
Disk space for database files	Refer to the Hardware Sizing documentation to determine the required space for the database creation.
System architecture	Processor: Intel Pentium 4 or higher/compatible
Operating system	Microsoft Windows Server 2008 SP2 64 bit. Microsoft Windows Server 2008 R2 64 bit.

Chapter 3

Prepare the System

1. You have to be logged on to the computer, on which the Oracle components are to be installed, as a member of the Administrators group.
2. Create the directories/drives for the distribution of the data files depending on the number of disks prepared for the Oracle installation. For instance, if you have prepared 3 disks -
 - E:\
 - F:\
 - H:\

The drive letters E:\, F:\, and H:\ here are just an example. Subdirectories will be created later in these directories by the database creation (see Chapter 4).

Download Oracle Installation Media

1. Download and uncompress the Oracle Agile Engineering Data Management Application (Release e6.1.2) from the Oracle eDelivery web site (under Oracle Agile Applications->Oracle Agile Engineering Data Management (Release e6.1.2) Media Pack for Microsoft Windows x64 (64-bit)).
2. Download and uncompress the Oracle Database 11g Release 2 (11.2.0.1.0) for Microsoft Windows Server 2008 (part 1 and 2) from the Oracle eDelivery web site.
3. Download and uncompress the Oracle Client 11g Release 2 (11.2.0.1.0) (32-bit) for Microsoft Windows Server 2008 from the Oracle eDelivery web site (under Oracle Agile Applications->Oracle Agile Engineering Data Management (Release e6.1.2) Media Pack for Microsoft Windows x64 (64-bit)).

The 32-bit Oracle client must be installed on the machine where Agile e6.1.2 is installed. If Agile e6.1.2 and the database are installed on the same machine, the 32-bit Oracle client must be installed on the same machine too.

Extracting the Installation Files

To extract the installation archive files, change to the directory that contains the downloaded installation archive files. Use a GUI tool, like 7-zip, to extract the installation files.

Chapter 4

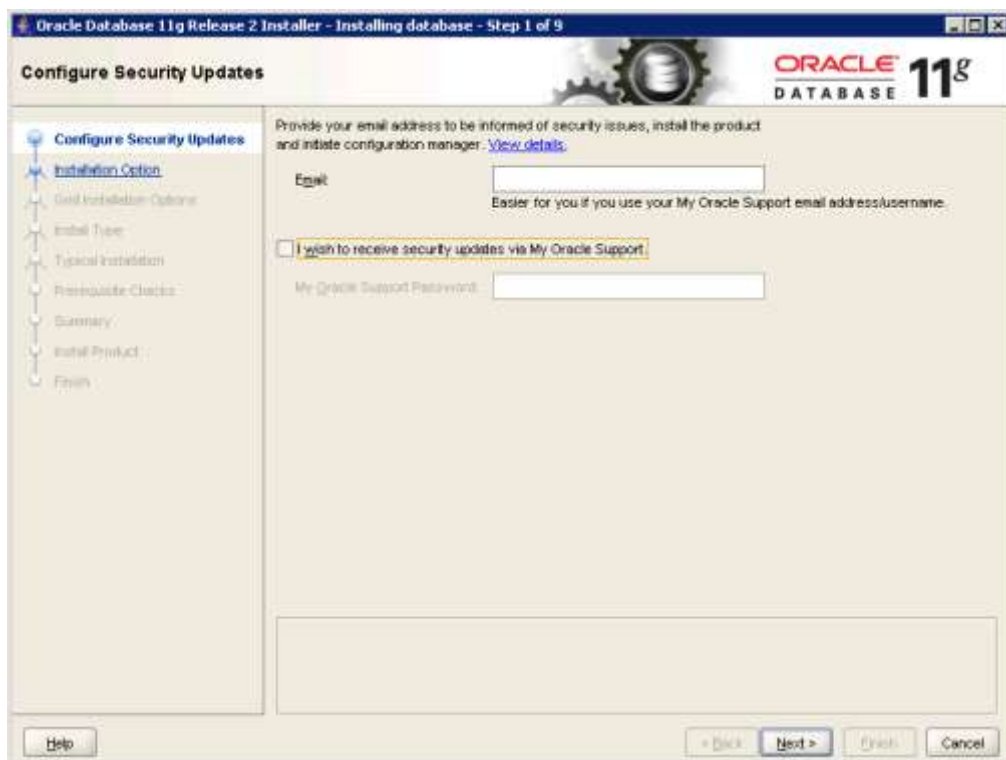
Installing Oracle 11gR2

This chapter provides instructions for installing the Oracle 11gR2 Database for use with Agile e6.1.2

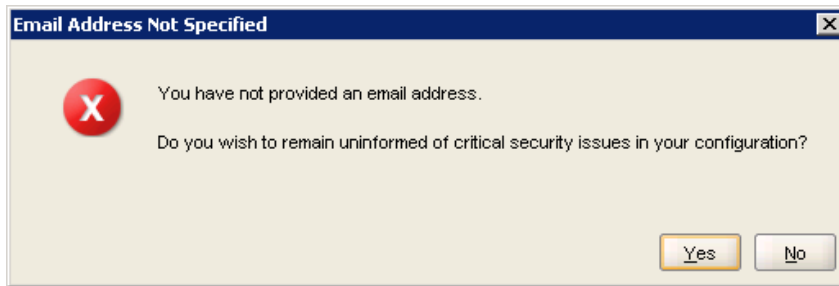
Start the Oracle Database 11gR2 Installation

1. Start setup.exe from the downloaded Oracle Installation Media.

The *Configure Security Updates* window opens.



Note To receive notifications about security issues via e-mail, enter your e-mail address in the Email text field. To receive security updates from My Oracle Support, enter the e-mail address registered with My Oracle Support, select the **I wish to receive security updates...** option, and enter your My Oracle Support password. If you chose not to receive security updates, deselect the **I wish to receive security updates via My Oracle Support** check box. An Email Address Not Specified dialog box appears. Click **Yes** to continue



The Select Installation Option window opens.



2. Select 'Install database software only' and click **Next**.

The *Grid Installation Options* window is opened.



3. Select 'Single instance database installation' and click **Next**.

Note Please note that the Real Application Cluster database installation is not a subject of this document!

The *Select Product Languages* window opens.



4. Select "English" as the language in which your product will run and click **Next**.

Note It is possible to select any other language from the list of product languages if you want the Oracle database to operate in a different language. Please be aware that the scope of translation for a given component may differ between languages, e.g. some translations may include all user interface text, while others may include only error messages and no help file!

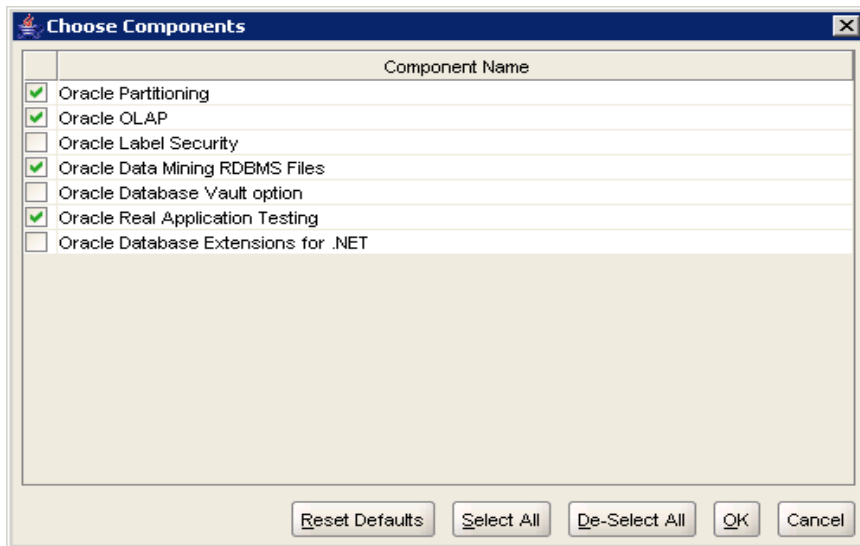
The *Select Database Edition* window opens.



Note Please note that the Enterprise Edition is preset as the default database edition. You mustn't select the Enterprise Edition if you have a Standard Edition license!

Note Please note that with an Agile e6 installation no further action regarding the components is necessary. However, components that are not automatically enabled can be enabled manually!

Note In case you select the Standard Edition no further action is required. Simply click the **Next** button to proceed with the installation!



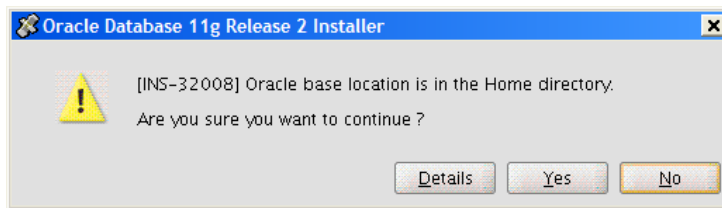
5. Click **Next**.

The *Specify Installation Location* window opens.



6. Specify the installation location for the Oracle base directory and the Oracle home directory. Click **Next**.

If the Oracle base location is in the home directory, you will get the following warning message:



Note You can ignore the warning by clicking on **Yes**, but if possible avoid having the same directory for the Oracle base and the Oracle home directory!

The *Perform Prerequisite Checks* window opens and the installer performs a prerequisite check.



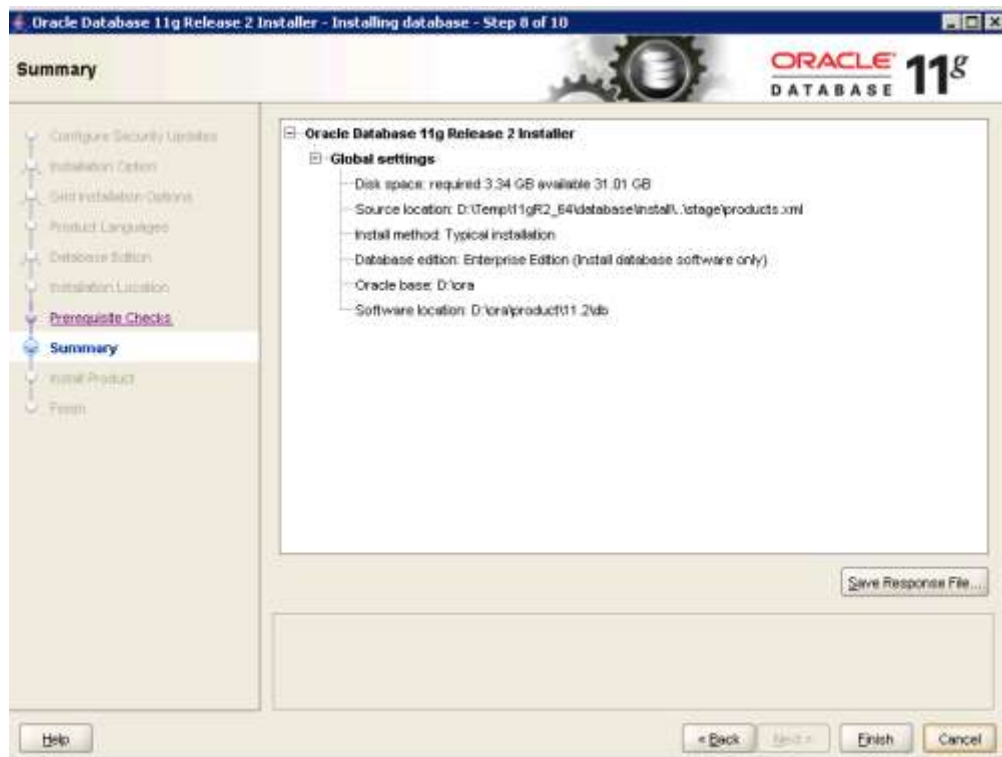
If any of the minimum requirement values are not met, the Installer lists failed checks together with actual and expected values. Fix them before you continue with the installation.

You can click a **Fix & Check Again** button to generate a fixup script. The nodes on which prerequisites have failed, are listed in the Execute Fixup Script window. You can run the fixup script as a root user to complete the required pre-installation steps.

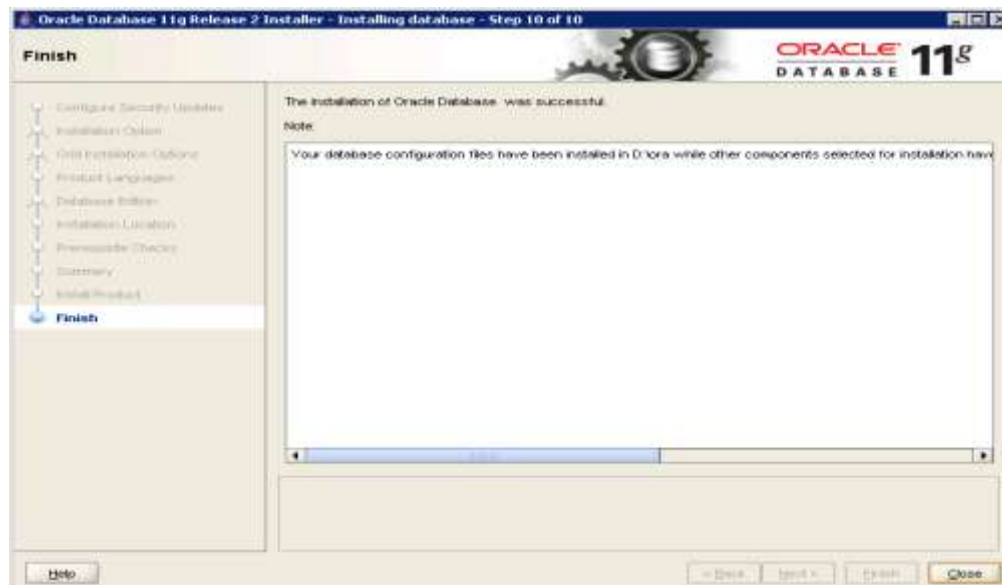
If all of the minimum requirements are met, a Summary window (see below) will appear. If any of the requirements are not met, the failed checks will be displayed in the Perform Prerequisite Checks window. You will have to fix and check them again.

Note Using fix up scripts will not ensure that all the prerequisites for installing the Oracle database are satisfied. You must still verify that all the pre-installation requirements are met to ensure a successful installation.

When the prerequisite checks are completed, the results are listed in the Summary window.



7. In the Summary window, review the options you have chosen and click **Finish**.
The *Finish* window opens.



8. Click **Close** to finish the installation.

Install the Oracle Client

Note The 32-bit Oracle client must be installed on the machine where Agile e6.1.2 is installed. If e6.1.2 and the database are installed on the same machine, the 32-bit Oracle client must be installed on the same machine too.

1. Start setup.exe from the downloaded Oracle Client Installation Media.

The *Select Installation Type* window opens.



2. Select the “Custom” type of installation” and click **Next**.

The *Select Product Languages* window opens.

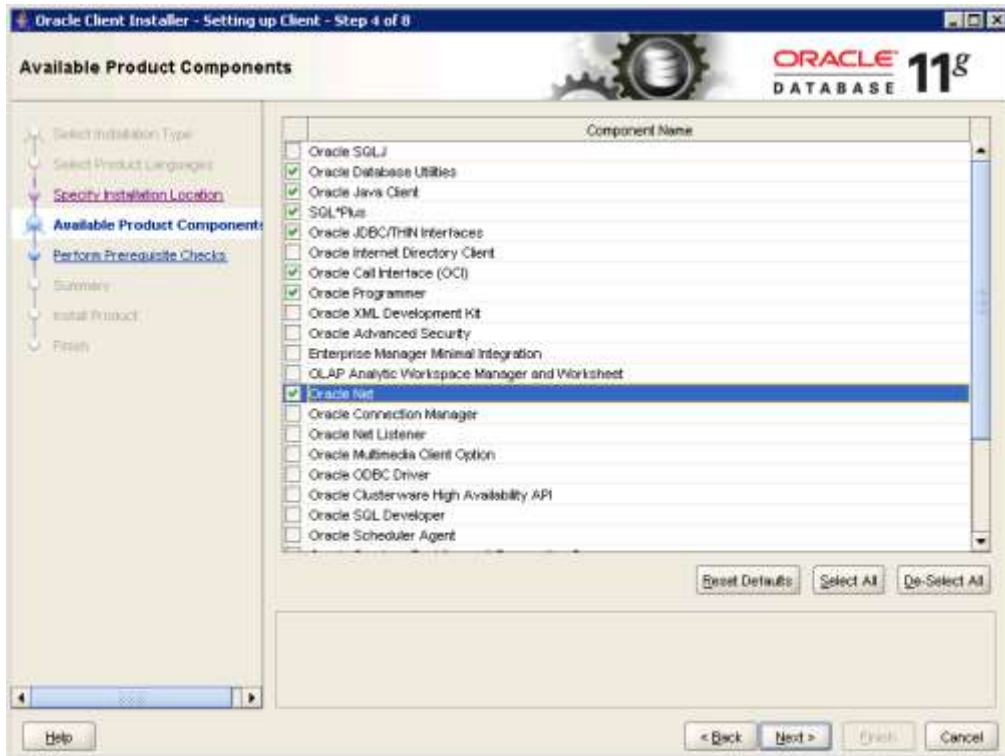


3. Select “English” as the language in which your product will run and click **Next**.
The *Specify Installation Location* window opens.



4. Specify the installation location for the Oracle base directory and the Oracle home directory. Click **Next**.

The *Available Product Components* window opens.



5. Select the following components to install (as depicted in the image above) and click **Next**.
 - Oracle Database Utilities
 - Oracle Java Client
 - SQL*Plus
 - Oracle JDBC/THIN Interfaces
 - Oracle Call Interface (OCI)
 - Oracle Programmer
 - Oracle Net

The *Perform Prerequisite Checks* window opens and the Installer performs the requisite checks.



If any of the minimum requirement values are not met, the Installer lists failed checks together with actual and expected values. Fix them before you continue with the installation.

The nodes on which prerequisites have failed, are listed in the Execute Fixup Script window. You can run the fixup script as a root user to complete the required pre-installation steps.

If all of the minimum requirements are met, a Summary window (see below) will appear. If any of the requirements are not met, the failed checks will be displayed in the **Perform Prerequisite Checks** window. You will have to fix and check them again.

Note Using fixup scripts will not ensure that all the prerequisites for installing the Oracle Client are satisfied. You must still verify that all the pre-installation requirements are met to ensure a successful installation!

6. In the Summary window, review the global settings you have chosen and click **Finish** to start the installation.

Ignore the warning that the Oracle Base is the Oracle home directory (if you decided to place it there).

7. Click **Next** to proceed to the summary.
8. In the *Summary* window, review the options you have chosen and click **Finish**.



When the installation is finished, a Finish window is opened.



9. To finish the installation click **Close**.

Database Creation

The database will be created by using the Database Configuration Assistant (DBCA) templates. DBCA templates include database options, initialization parameters, and storage information for data files, table spaces, control files and redo logs.

Five different templates are predefined to meet different requirements according to purpose, size and number of the users of the Agile e6.1.2 database installation.

Refer to the Hardware Sizing Recommendation for Agile e6.1.2 document for additional information on significant database parameters and settings of each template.

1. Refer to the downloaded media pack - Oracle Agile Engineering Data Management Application (Release e6.1.2). All templates are in the **addon/db/windows/templates** directory.
2. Copy the DBCA template file (e.g. plm_prod_medium.dbt) to the %ORACLE_HOME%\assistants\dbc\templates directory.
3. Start the Oracle Database Configuration Assistant from the Windows start menu.

Start > All Programs > Oracle - OraDb11g_home1 > Configuration and Migration Tools > Database Configuration Assistant.

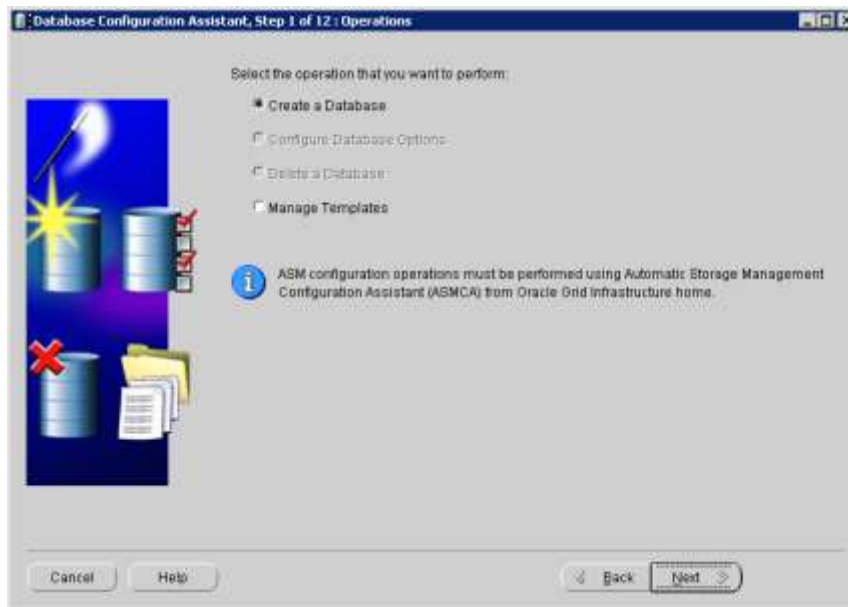
Note Here and below **OraDb11g_home1** is the name of the Oracle Home for Oracle database installation in the example. The name may be different by your installation.

The *Introduction* window opens.



4. Click **Next** to start the database configuration.

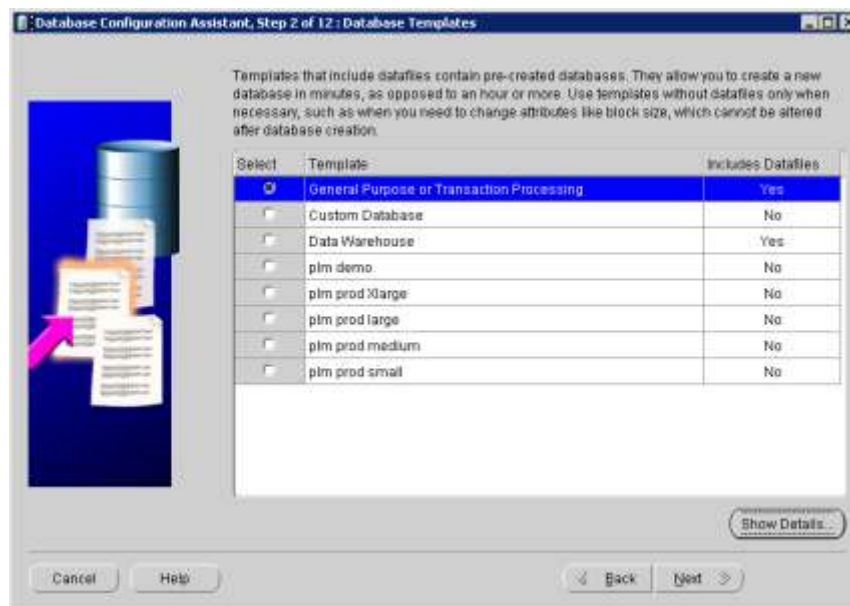
The *Database Configuration Assistant – Operations* window opens.



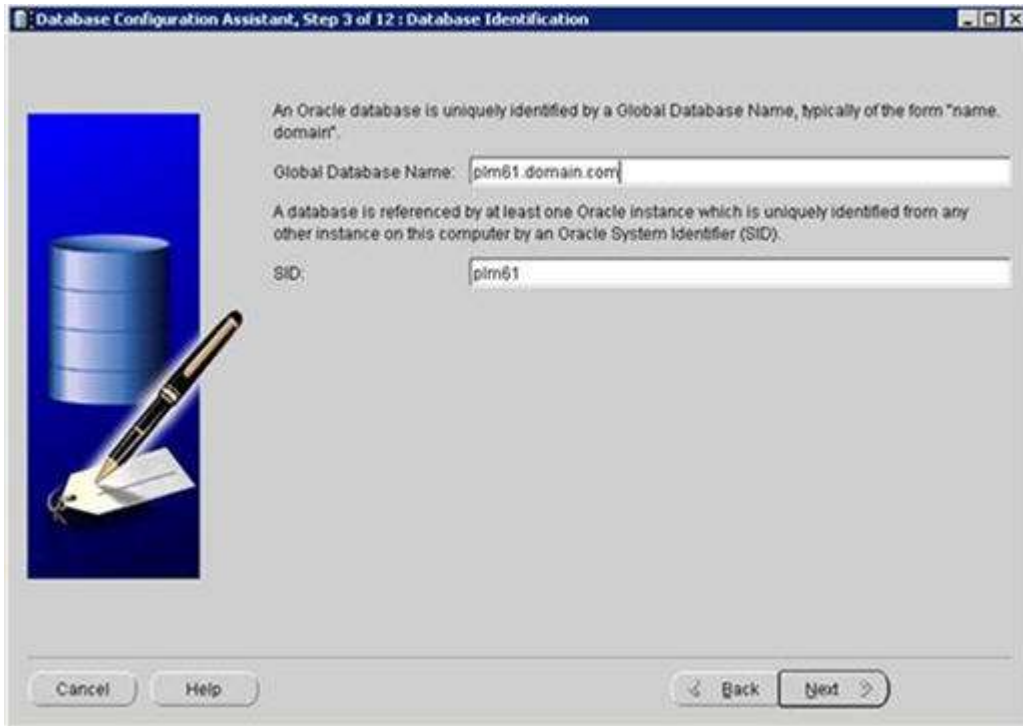
5. Select 'Create a Database' and click **Next**.

A list of different templates is provided in the Database Configuration Assistant – Database Templates window. Here you should also see the template that you have chosen and copied in step 2.

6. Select the template you want to use and click **Next**.



The *Database Identification* window opens.

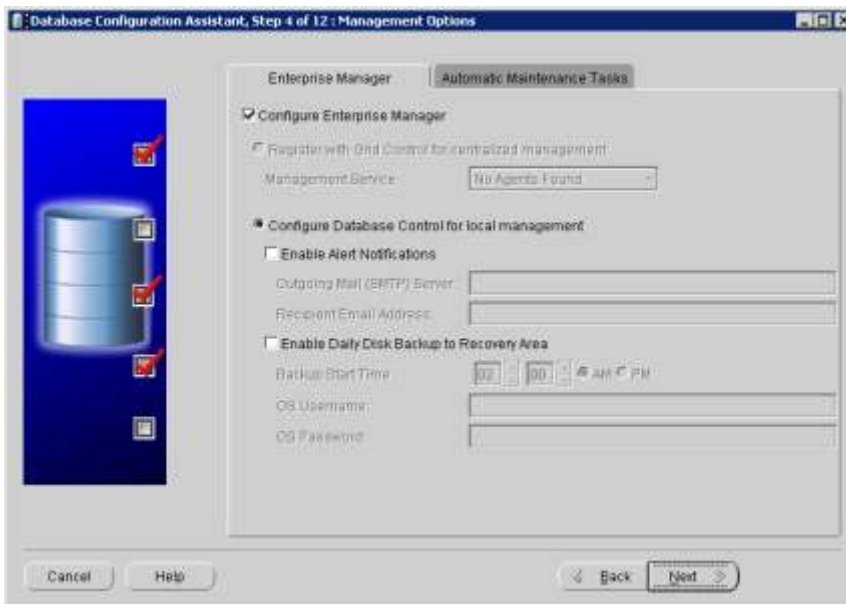


7. Enter the global database name and database SID and click **Next**.

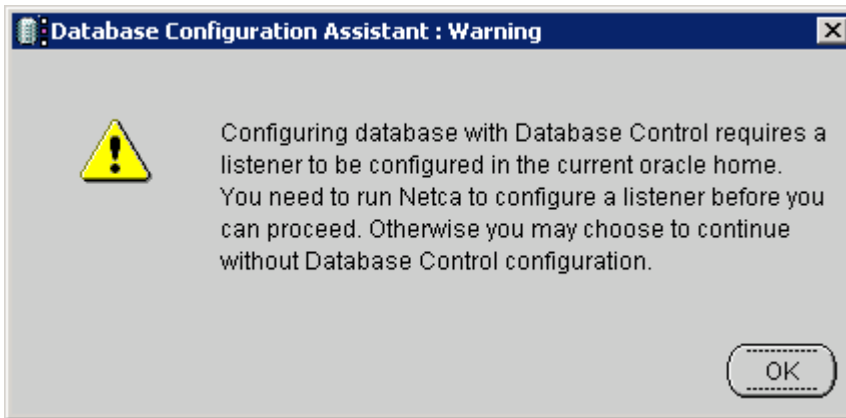
The default SID is plm61. A good practice is to set the global database name to SID.<domain name> - e.g. plm61.mydomain.com. But it can be left the same as the database SID.

The next window provides the possibility to centrally manage the Oracle databases using Oracle Enterprise Manager Database Control.

8. Select the option "Configure Enterprise Manager" and click on the Automatic Maintenance Tasks tab.



A message is displayed that a listener has to be configured first - prior to configuring the database by dbca.



If a configured listener for this Oracle Home already exists, this warning message will be skipped and by clicking on the Automatic Maintenance Tasks tab, you will see the screen from step 18. In this case skip the steps 9-17 and continue with step 18.

9. Click **OK** to close the warning message.

10. Start the Oracle Net Configuration Assistant from the Windows start menu.

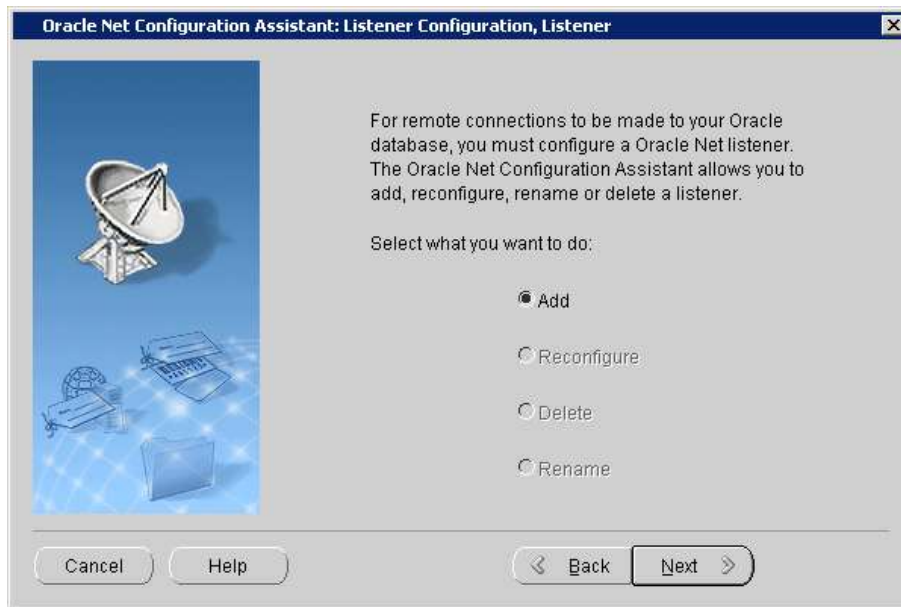
Start > All Programs > Oracle - OraDb11g_home1 > Configuration and Migration Tools > Net Configuration Assistant.

The *Welcome* window opens.



11. Select the Listener configuration and click **Next**.

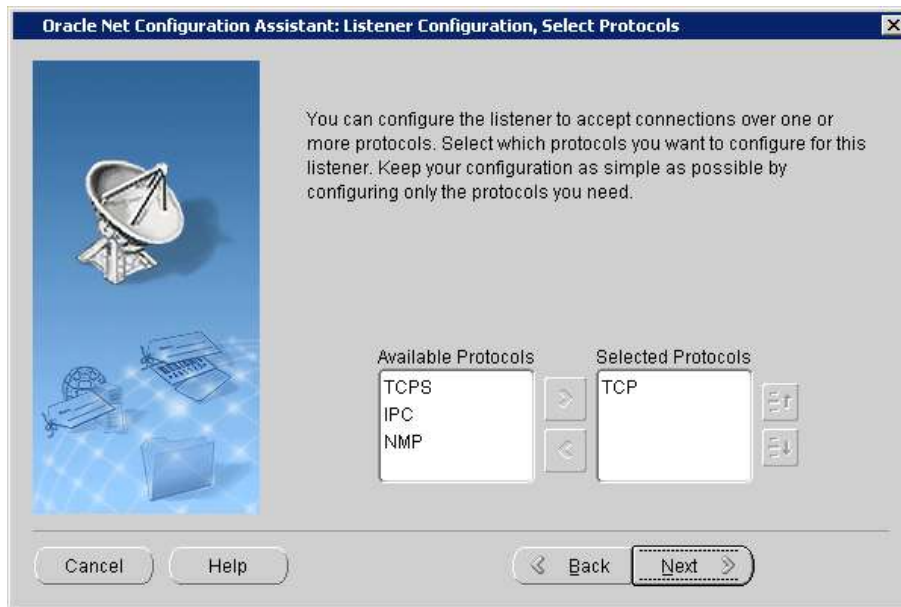
12. In the next window select **Add** from the list and click **Next**.



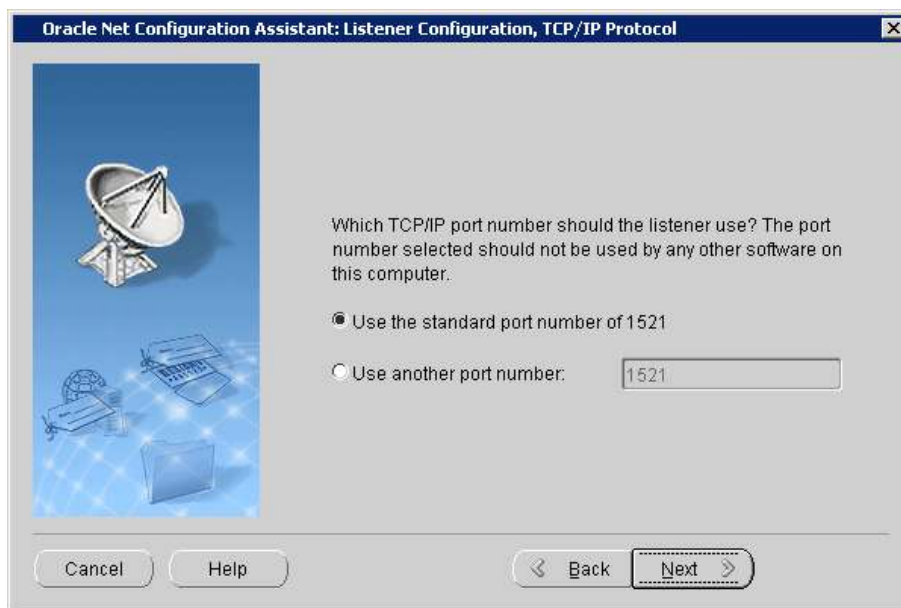
13. Create the name for the listener and click **Next**.



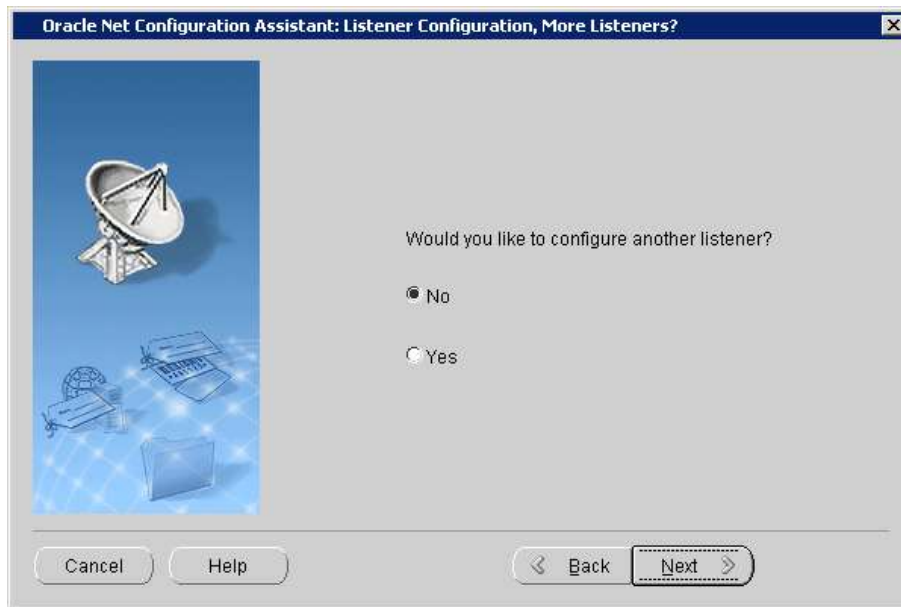
14. Select **TCP** from the Available Protocols list (selected by default) and click **Next**.



15. Select the standard port number of 1521 (or one that has not been used yet) and click **Next**.



16. Select not to configure another listener and click **Next**.



17. Click on **Next**.

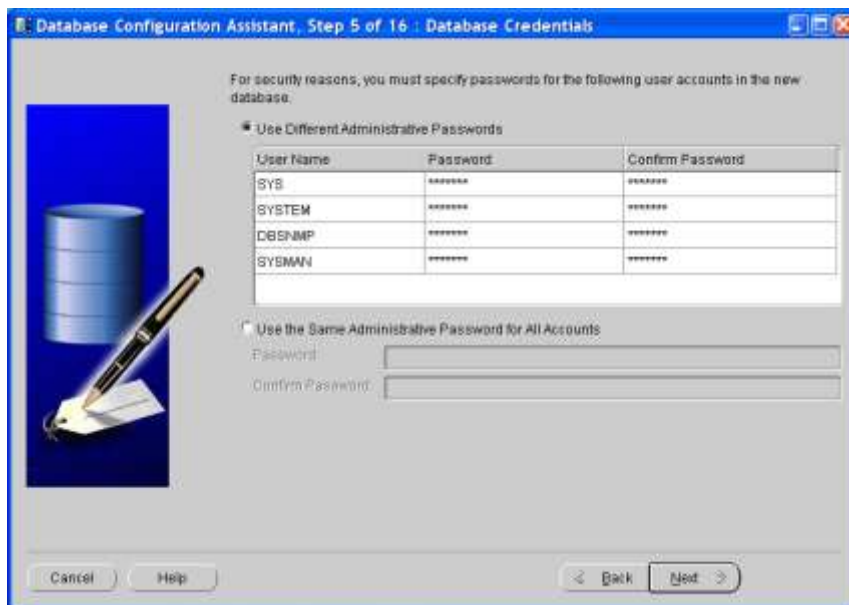


The Listener configuration is completed.

18. Make sure that you have enabled automatic maintenance tasks and click **Next**.



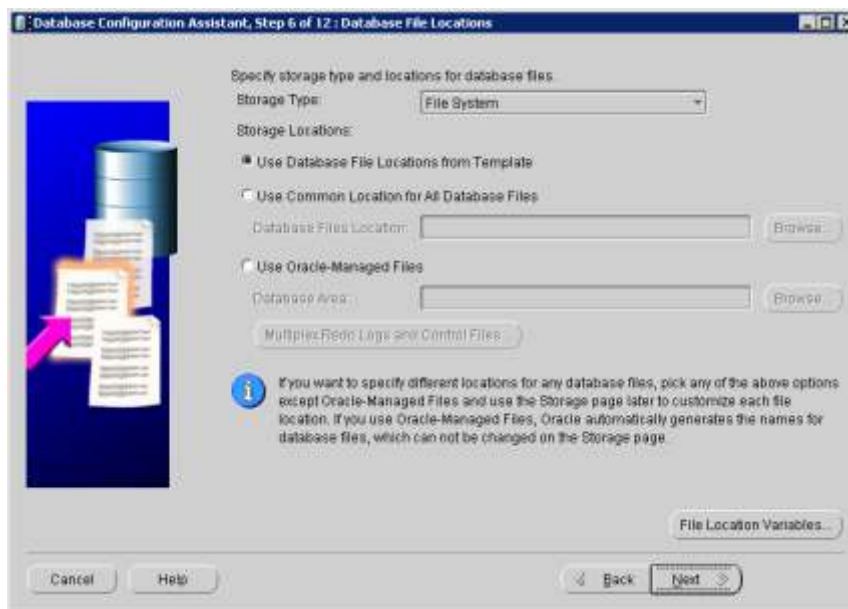
The *Database Credentials* window opens.



19. Enter passwords for SYS, SYSTEM, SYSMAN and DBSNMP and click **Next**.

It is highly recommended to use different passwords for these accounts.

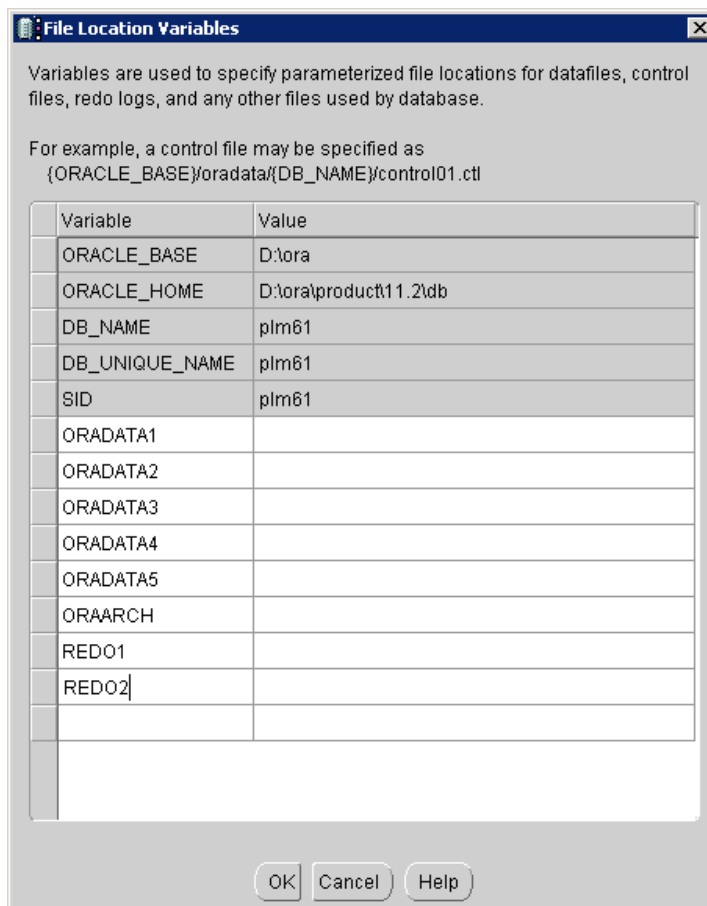
The *Database File Location* window opens.



20. Select 'Use Database File Locations from Template'.

21. Click the 'File Location Variables...' button.

The *File Location Variables* window opens.



22. Enter value for the variables in the table.

As values you should provide the directories created in Chapter 3 (in this example E:, F:, H:). DBCA will create the subdirectory plm61 in the directories where the database data files will be created. See the table for detailed information on predefined file destination variables.

Variable	Description
ORADATA1	Directory for data files of tablespaces EDB, EDB_LOB, EDB_TMPIDX
ORADATA2	Directory for data files of tablespaces EDB_IDX, EDB_TMP
ORADATA3	Directory for data files of temporary tablespace TEMP
ORADATA4	Directory for data files of undo tablespace
ORADATA5	Directory for data files of tablespaces SYSTEM, TOOLS, USERS
ORAARCH	Directory for Archive log files
REDO1	Directory for redo log files
REDO2	Directory for redo log files

Follow the instructions below to set the value for variables by different number of disks.

- Number of disks: 1 (there is only one directory – e.g. /data1)

Disk1: ORADATA1, ORADATA2, ORADATA3, ORADATA4, ORADATA5, REDO1, REDO2, ORAARCH – all variables will be set to /disk1

- Number of disks: 2 (there are two directories – e.g. /data1, /data2)

Disk1: ORADATA1, ORADATA4, ORADATA5, REDO1 – they get the value of /data1

Disk2: ORADATA2, ORADATA3, ORAARCH, REDO2 – they get the value of /data2

- Number of disks: 3

Disk1: ORADATA1, ORADATA5

Disk2: ORADATA2, ORADATA4, REDO1

Disk3: ORADATA3, ORAARCH, REDO2

- Number of disks: 4

Disk1: ORADATA1, REDO1

Disk2: ORADATA2, REDO2

Disk3: ORADATA3, ORAARCH

Disk4: ORADATA4, ORADATA5

- Number of disks: 5

Disk1: ORADATA1, REDO1

Disk2: ORADATA2, ORAARCH

Disk3: ORADATA3, ORADATA5

Disk4: ORADATA4

Disk5: REDO2

- Number of disks: 6

Disk1: ORADATA1

Disk2: ORADATA2, ORAARCH

Disk3: ORADATA3

Disk4: ORADATA4

Disk5: ORADATA5, REDO1

Disk6: REDO2

- Number of disks: 7

Disk1: ORADATA1

Disk2: ORADATA2

Disk3: ORADATA3

Disk4: ORADATA4

Disk5: ORADATA5, ORAARCH

Disk6: REDO1

Disk7: REDO2

- Number of disks: 8

Disk1: ORADATA1

Disk2: ORADATA2

Disk3: ORADATA3

Disk4: ORADATA4

Disk5: ORADATA5

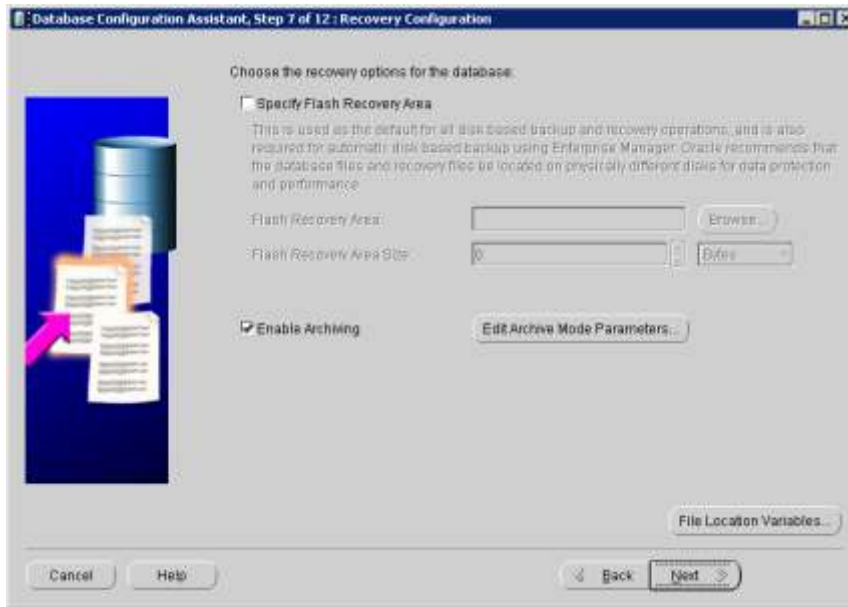
Disk6: ORAARCH

Disk7: REDO1

Disk8: REDO2

23. Click **OK** and then **Next**.

24. Deselect the option **Specify Flash Recovery Area** in the next window.

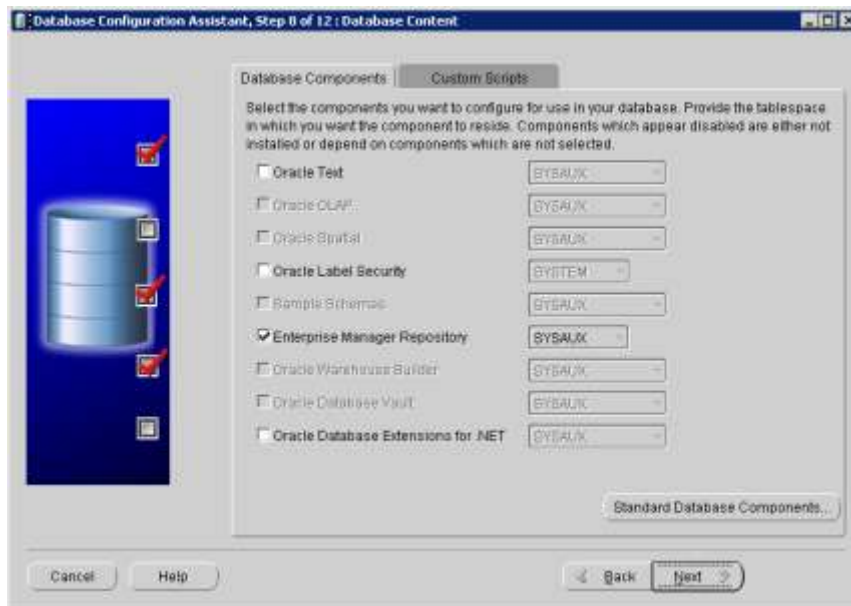


Depending on your backup strategy and used template, archiving can be enabled.

Note For a productive database it is highly recommended to archive the database. The destination of the archive directory can be specified by clicking on the Edit Archive Mode Parameters button (predefined by the variable ORAARCH).

25. Click **Next**.

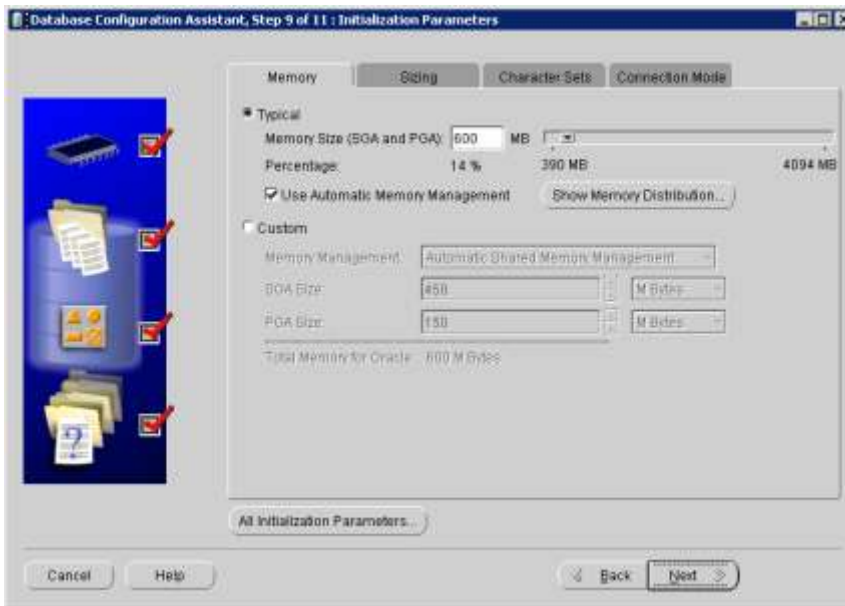
The next window provides database features as well as the possibility to run custom scripts after the database creation. It is not recommended to change the settings provided by the template.



26. Click **Next**.

The next window provides different database parameters. You can navigate to the setting of memory, character sets, database sizing, and connection mode. Usually all parameters are set

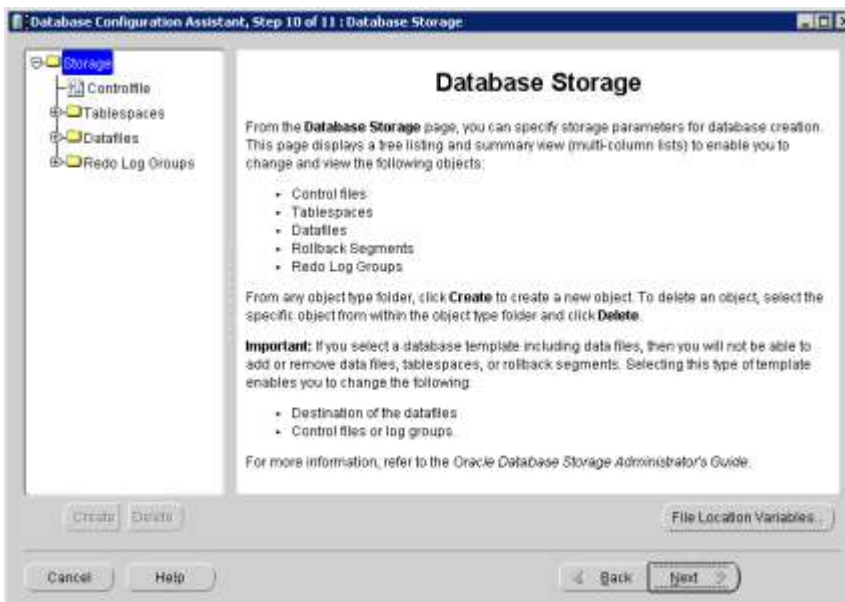
by the selected template and you don't need to change them, but experienced users can modify some parameters depending on the database size and number of users.



27. Click **Next**.

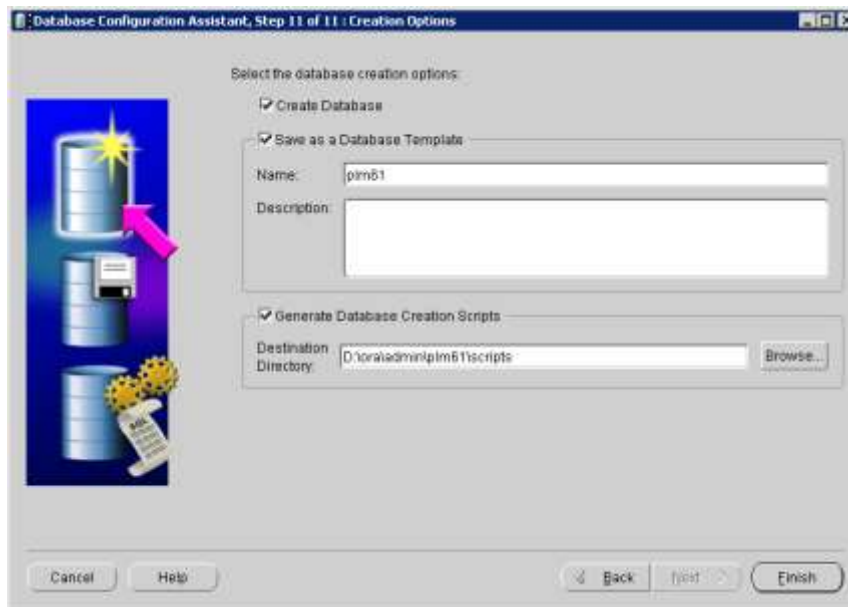
The Database Storage window shows table space, data files, control files and redolog groups/files to be created.

28.



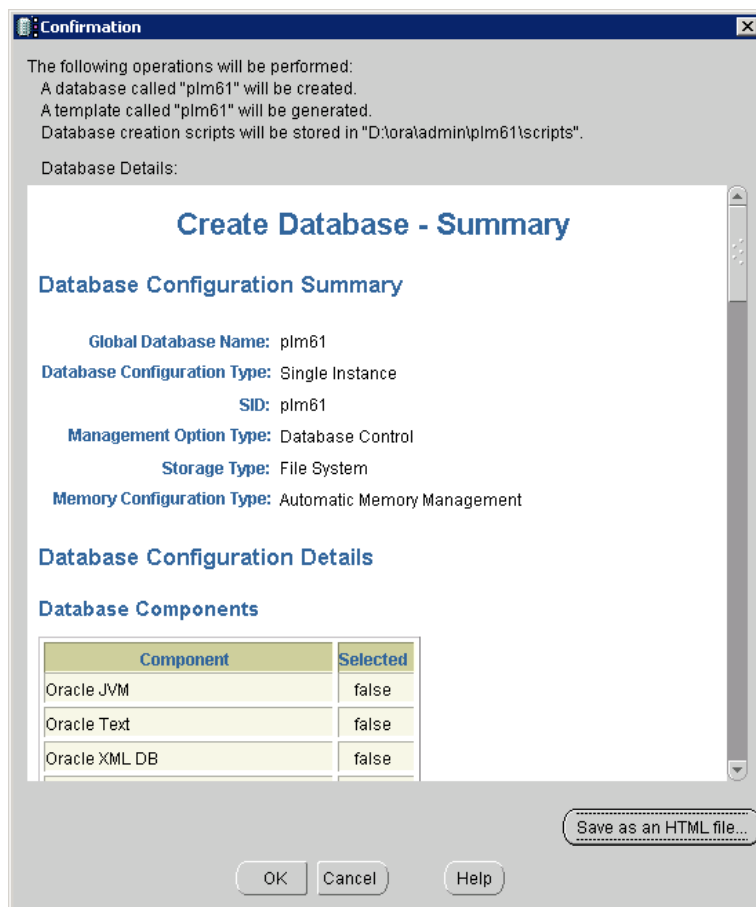
29. Click **Next**.

The *Creation Options* window opens.



30. Select “Create Database”, “Save as a Database Template” and “Generate Database Creation Scripts” and click **Finish**.

A summary of the database parameters is displayed.



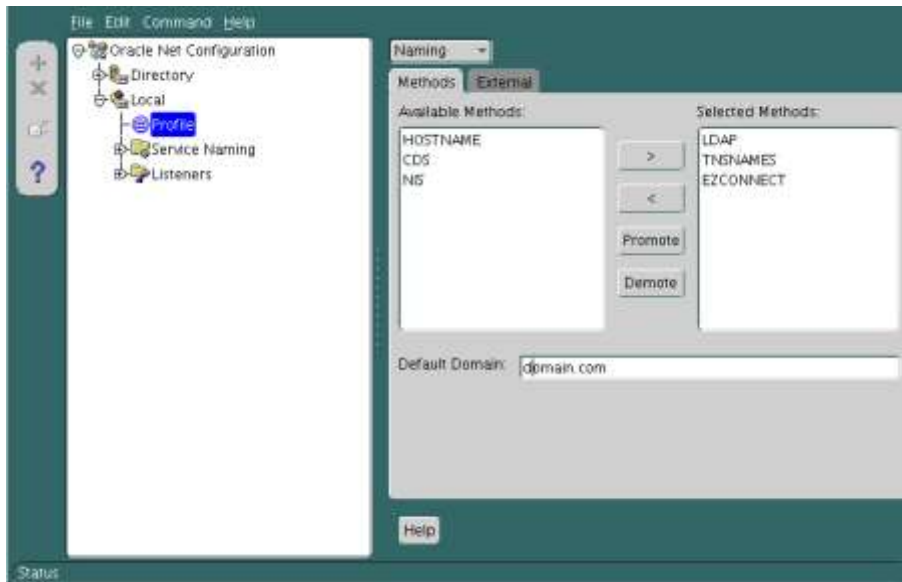
31. Click **OK**.

The database creation process is started.

32. When the database creation is done, click **Exit** to finish the process.

Configuring tnsnames.ora and sqlnet.ora

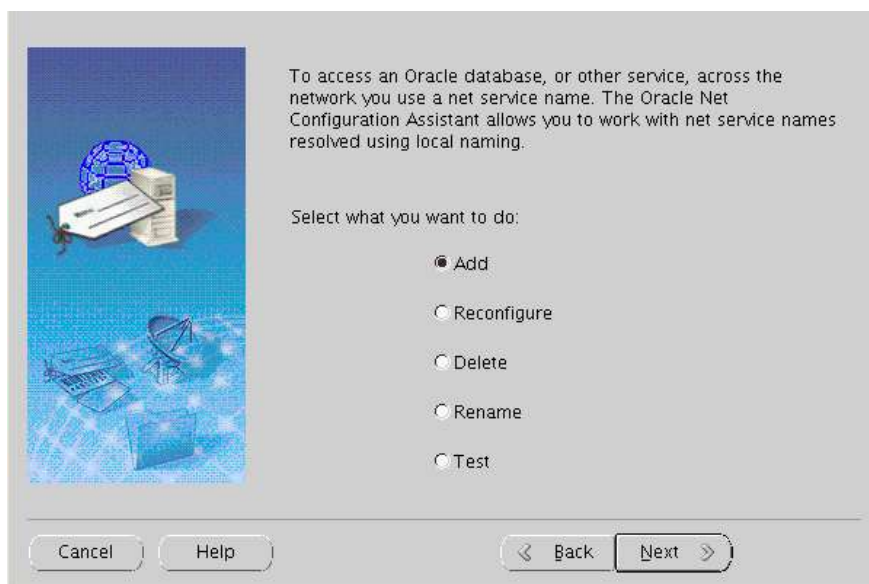
1. Start the Oracle Net Manager
2. Start ->All Programs-> Oracle - OraDb11g_home1->Configuration and Migration Tools->Net Manager
3. Expand the view for **Local** and click on **Profile**.



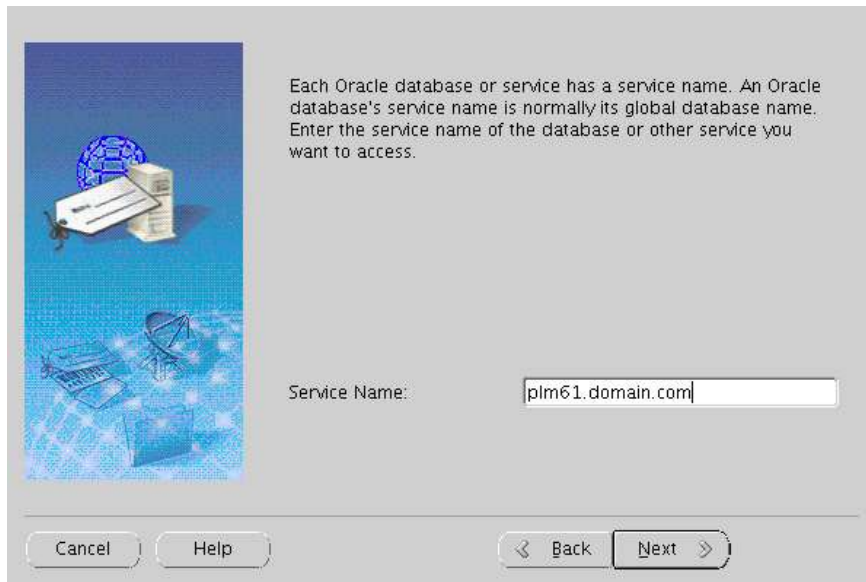
4. Enter your domain name in the field **Default Domain**.
5. Save the configuration by clicking on File->Save Network Configuration from the main menu and exit the Net Manager by clicking on File->Exit.
6. Start the Oracle Net Services Configuration Tool.
Start -> All Programs-> Oracle - OraDb11g_home1->Configuration and Migration Tools->Net Configuration Assistant
7. Select the Local Net Service configuration and click **Next**.



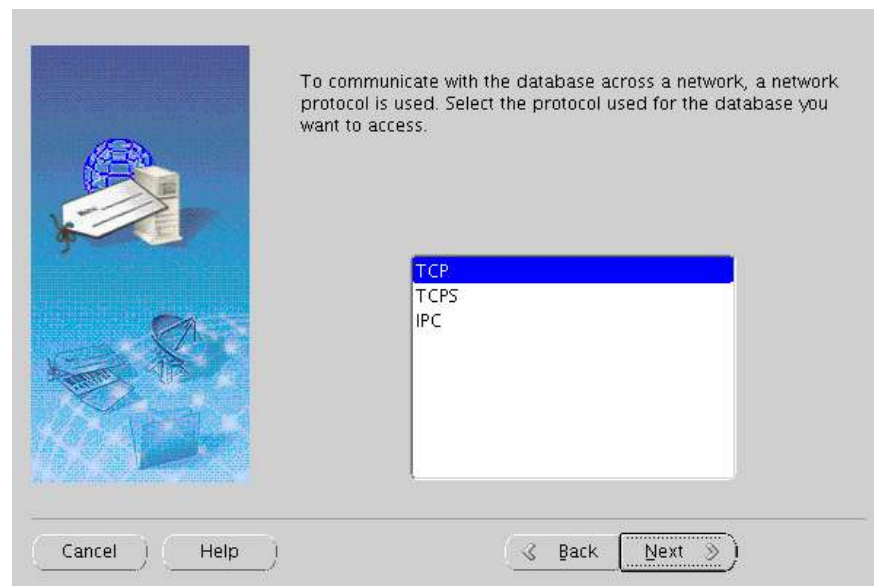
8. Select **Add** and click **Next**.



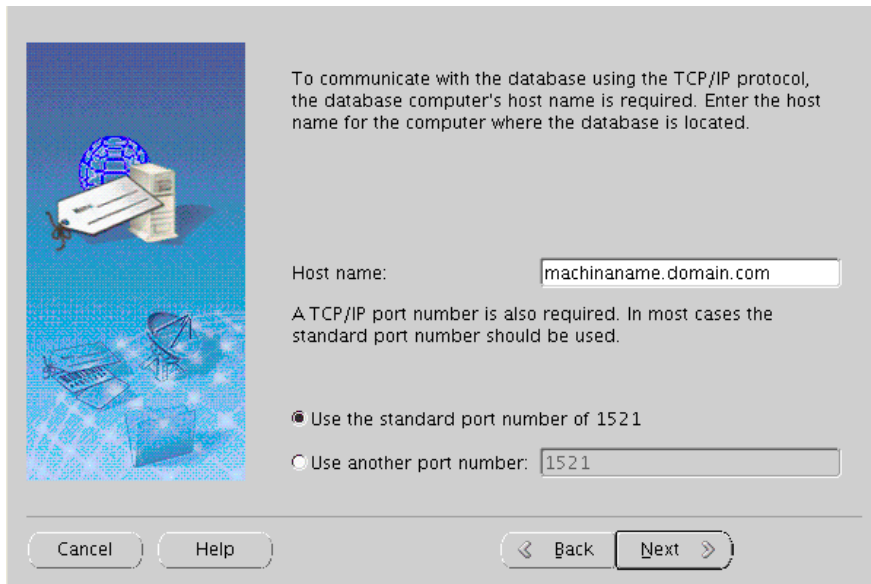
9. Enter the Service Name. This is the global database name you provided by the database creation. In the example it is plm61.domain.com. Click **Next**.



10. Select the **TCP** protocol and click **Next**.



11. Enter the fully qualified machine name – where the Oracle database is located and click **Next**.



To communicate with the database using the TCP/IP protocol, the database computer's host name is required. Enter the host name for the computer where the database is located.

Host name:

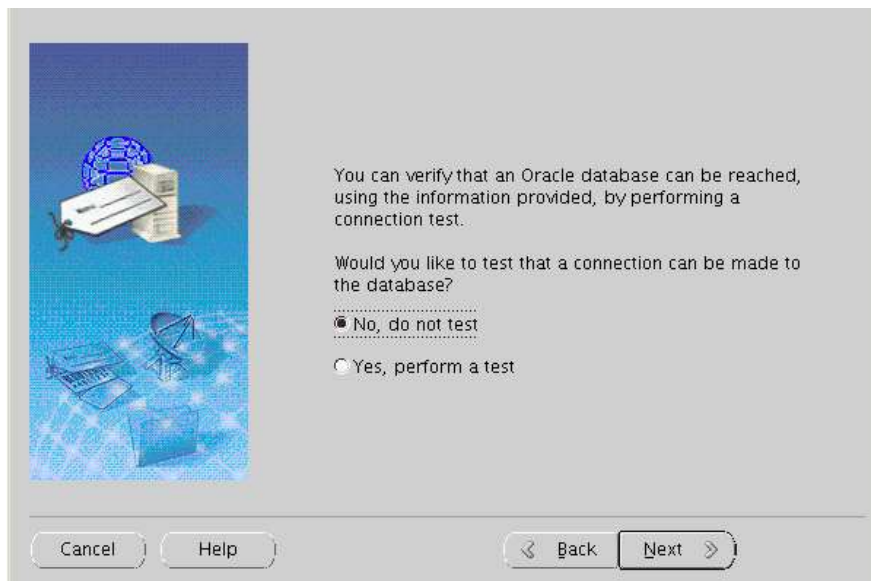
A TCP/IP port number is also required. In most cases the standard port number should be used.

☒ Use the standard port number of 1521

☐ Use another port number:

Cancel Help < Back Next >

12. Select not to perform a test and click on **Next**.



You can verify that an Oracle database can be reached, using the information provided, by performing a connection test.

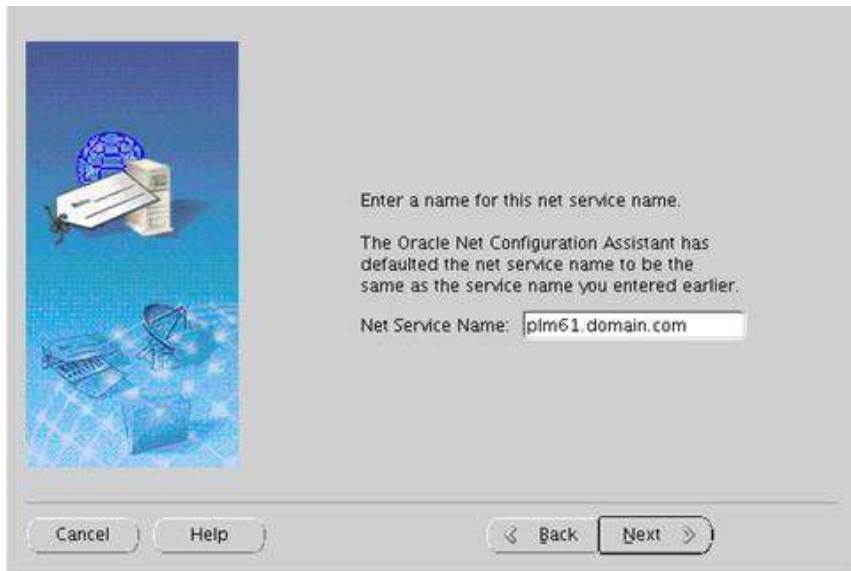
Would you like to test that a connection can be made to the database?

☒ No, do not test

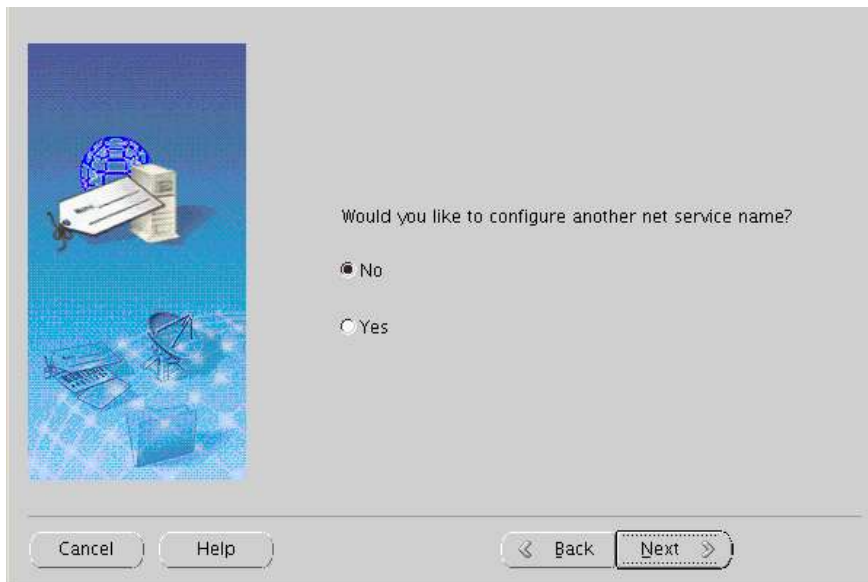
☐ Yes, perform a test

Cancel Help < Back Next >

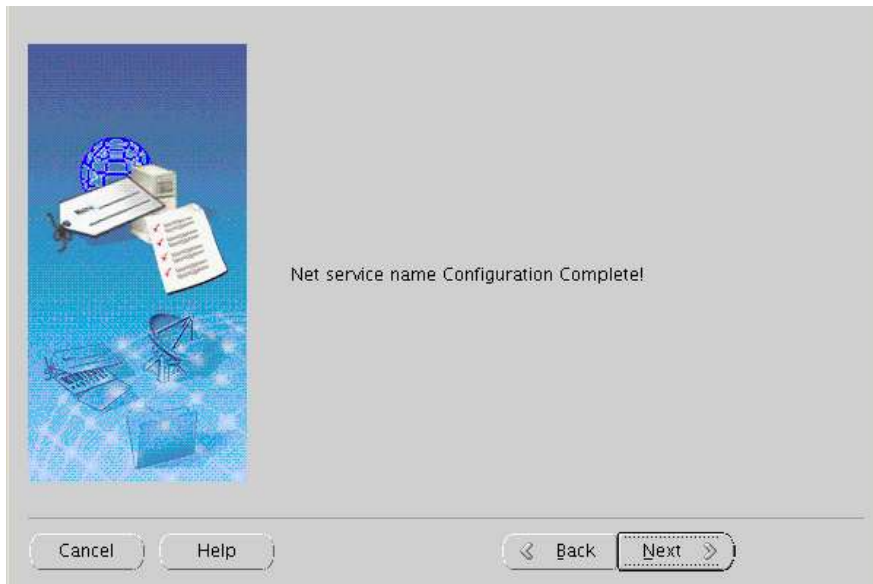
13. Finally, select the Net Service Name and click **Next**.



14. Select not to configure another service and click **Next**.



15. The Net service name configuration is completed. Click on **Next** and then on **Finish** to quit.



16. Test the database connection with the following command:

```
sqlplus system@plm61/<SYSTEM password>
```

Chapter 5

Modify the Oracle Database

Create Directories for the Oracle Data Pump Utility

1. Create a directory which will be used for the Oracle Data Pump Export/Import Utility with two subdirectories - system and user (for instance d:\ora_dmp\system; d:\ora_dmp\user).

2. Open a sqlplus session and connect as 'system'.

```
sqlplus system/<system password>
```

3. Run the **script ddl_pump_dir.sql** which is located in the addon/db/sql directory within the downloaded Oracle Agile Engineering Data Management Application (Release e6.1.2) package.

```
SQL>@<full path to the file ddl_pump_dir.sql>
```

4. Enter the path to the main directory created under step 1 (for instance d:\ora_dmp).

The script will create two directory objects – one for system users and one for normal users and will give rights for the second directory to user PLM.

Create a Database User and Role

You will need to create the Agile e6.1.2 database user and role and provide the necessary privileges and quotas. You can do this using the following commands or using the Oracle Enterprise Manager Database Control as described in the section below.

You can create AGILE_E_ROLE role and plm schema also by executing the script cre_plm_usr.sql in the directory ../addon/db/sql.

```
SQL>@<full path to the file cre_plm_usr.sql>
```

Username (e.g. PLM) and password have to be provided.

Using SQL to Create a Role

1. Check if the plm role exists – open sqlplus session, connect as SYS or SYSTEM and execute

```
select role from dba_roles where role='AGILE_E_ROLE';
```
2. If string 'AGILE_E_ROLE' is returned, the role exists. Then skip the role creation and continue with the user creation. Otherwise, the role has to be created.
3. Use the sql code below to create the role AGILE_E_ROLE:

```
CREATE ROLE AGILE_E_ROLE;  
GRANT CONNECT TO AGILE_E_ROLE;  
GRANT CREATE TABLE TO AGILE_E_ROLE;  
GRANT CREATE VIEW TO AGILE_E_ROLE;  
GRANT CREATE SYNONYM TO AGILE_E_ROLE;  
GRANT CREATE DATABASE LINK TO AGILE_E_ROLE;
```

```
GRANT CREATE SEQUENCE TO AGILE_E_ROLE;  
GRANT ALTER SESSION TO AGILE_E_ROLE;  
GRANT CREATE PROCEDURE TO AGILE_E_ROLE;  
GRANT CREATE TRIGGER TO AGILE_E_ROLE;  
GRANT ALL ON DIRECTORY ORA_DMP TO AGILE_E_ROLE;
```

Using SQL to Create a User

1. Use the sql code below to create the plm schema (named, e.g. PLM):

```
CREATE USER PLM  
IDENTIFIED BY <PASSWORD>  
DEFAULT TABLESPACE "EDB"  
TEMPORARY TABLESPACE "TEMP"  
PROFILE DEFAULT  
QUOTA UNLIMITED ON "EDB"  
QUOTA UNLIMITED ON "EDB_IDX"  
QUOTA UNLIMITED ON "EDB_TMP"  
QUOTA UNLIMITED ON "EDB_TMPIDX"  
QUOTA UNLIMITED ON "EDB_LOB"  
ACCOUNT UNLOCK;  
GRANT "AGILE_E_ROLE" TO PLM;  
ALTER USER PLM DEFAULT ROLE AGILE_E_ROLE;
```

Using Enterprise Manager Database Control to Create a User

1. Start the Enterprise Manager Database Control.

By default it can be invoked on <https://localhost.localdomain:1158/em/console>, but it can be configured manually to use another port. DB Control port and url can be found by checking the status of the DB Control:

```
emctl status dbconsole
```

Oracle Enterprise Manager 11g Database Control Release 11.2.0.1.0

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<https://hostname:port/em/console/aboutApplication>

....

2. Enter your user credentials and click **Login**.

ORACLE Enterprise Manager 11g
Database Control

Login

User Name: sys
Password: *****
Connect As: SYSDBA
Login

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Unauthorized access is strictly prohibited.

3. Click on the **Server** tab and in the **Security** section on **Users**.
4. Click **Create**.

[illegible]

- Click on the General tab and insert a user name and password and assign default and temporary table space.
- In the Roles tab click **Edit List**.
- Select the role AGILE_E_ROLE from the list with available roles and click **Move**.
The role is moved to the Selected Roles.
- Click **OK**.

Oracle Enterprise Manager 11g Database Control

Database Instance: orange.agile.agilesoft.com > Users > Modify Roles

Available Roles

- AQ_ADMINISTRATOR_ROLE
- AQ_USER_ROLE
- CTXADM
- OUTAPI_MP_EXP_FULL_DATABASE
- OUTAPI_MP_IMP_FULL_DATABASE
- DBA
- DELETE_CATALOG_ROLE
- EXECUTE_CATALOG_ROLE
- EXP_FULL_DATABASE
- GATHER_SYSTEM_STATISTICS

Selected Roles

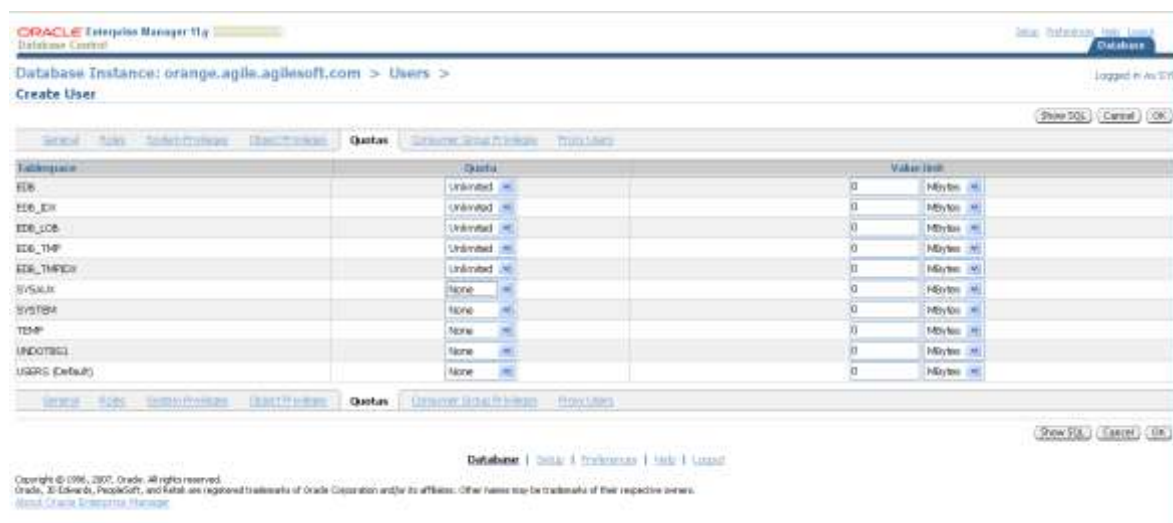
- CONNECT
- AQUA_ROLE

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The role AGILE_E_ROLE should have been created in the previous step.

9. Open the Quotas tab and assign unlimited quota to EDB, EDB IDX, EDB LOB, EDB TMP

and EDB_TMPIDIX.



10. Click **OK** to finish the database user creation.

Import the Database Dump

Import the Agile e6.1.2 dump using the following commands, and then check the log file for errors. Make sure that the variable NLS_LANG is set to AMERICAN_AMERICA.WE8MSWIN1252.

Check the registry for the value of the variable NLS_LANG -
HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_<11gR2 installation>

```
imp username/pass@plm61 file=plm61.dmp log=plm61.log buffer=500000
commit=y statistics=none full=y
```

username, pass are the name and the password of the user you created in the database.

commit=y	Rollback segments cannot get too small
statistics=n	No statistics will be created
buffer=500000	Necessary for lobs, better performance
full=y	Imports full dump even if the dump was exported by different user

Compile All Invalid Objects in Schema PLM

After importing the Agile e6.1.2 dump some objects might be invalid. This can be verified by the following way:

1. Open a sqlplus session and connect as 'sys' – as sysdba.

```
sqlplus sys/<sys password> as sysdba
SQL>select count(*) from dba_objects where status <> 'VALID' and
owner='PLM';
```

If the returned message is 'no rows selected', then you have no invalid objects.

2. Otherwise, execute the script utlrp.sql.– the script will compile all invalid objects in the database.

```
SQL> @?/rdbms/admin/utlrp.sql
```

3. Verify once again that there are no invalid objects:

```
SQL>select count(*) from dba_objects where status <> 'VALID' and  
owner='PLM';
```

Gather Statistics

In Oracle 11gR2 the default value for the OPTIMIZER_MODE initialization parameter is ALL_ROWS, which means that a cost-based approach will be used for all SQL statements. Oracle highly recommends creating statistics in order to avoid performance losses. This should be done after the dump import and has to be repeated periodically.

- Calculate statistics of all tables and indexes in db schema PLM:

```
SQL> EXECUTE DBMS_STATS.GATHER_SCHEMA_STATS('PLM', CASCADE =>true);
```

- Calculate statistics of all tables and indexes in db schema PLM with 5% of the rows:

```
SQL> EXECUTE DBMS_STATS.GATHER_SCHEMA_STATS('PLM', estimate_percent =>  
5, CASCADE =>true);
```

- Drop all statistics of PLM schema objects. Optimizer is now running in rule mode.

```
SQL> EXECUTE DBMS_STATS.DELETE_SCHEMA_STATS('PLM');
```

For all schema objects, statistics have to be available to support the cost based optimizer. If tables and indexes are modified or created, statistics must be established.

- Calculate statistics on all tables without statistics and their indexes in db schema PLM with 5% of the rows:

```
SQL> EXECUTE DBMS_STATS.GATHER_SCHEMA_STATS(ownname => 'PLM', options  
=> 'GATHER EMPTY', estimate_percent => 5, CASCADE =>true);
```

- Calculate statistics on tables t_master_dat and their indexes in db schema PLM with 10% of the rows:

```
SQL> exec sys.dbms_stats.gather_table_stats(ownname=> 'PLM', tablename=>  
'T_MASTER_DAT', partname=> NULL , estimate_percent=> 10 ,cascade=>  
true);
```

Note Statistic information can be viewed, e.g. in user_tables and user_indexes. These views provide information about average width of the row and number of rows.

Uninstall Oracle for Windows

It is not possible to uninstall the Oracle 11gR2 database with the Oracle Universal Installer shipped with 11gR1 or an earlier version.

Oracle 11gR2 comes with a deinstallation utility. If you want to uninstall Oracle 11gR2, start the script deinstall.bat in the directory %ORACLE_HOME\deinstall. The script may need to be run as Administrator.

```

C:\Windows\System32\cmd.exe
Checking for required files and bootstrapping ...
Please wait ...
14 File(s) copied
610 File(s) copied
      1 file(s) copied.
      1 file(s) copied.
Location of logs C:\Program Files\Oracle\Inventory\logs\

##### ORACLE DEINSTALL & DECONFIG TOOL START #####

##### CHECK OPERATION START #####
Install check configuration START

Checking for existence of the Oracle home location D:\ora\product\11.2
Oracle Home type selected for de-install is: SIDB
Oracle Base selected for de-install is: D:\ora
Checking for existence of central inventory location C:\Program Files\Oracle\Inventory
Install check configuration END

Checking Windows and .NET products configuration START

The following Windows and .NET products will be deconfigured from the Oracle home
e : asp.net,ode.net,odp.net,ntoledb,oramts
Checking Windows and .NET products configuration END

Network Configuration check config START
Network de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\netdc_check6549857473081939552.log
Specify all Single Instance listeners that are to be de-configured [LISTENER]:_

```

4. Specify all single instance listeners that are to be de-configured as well as database names that are configured in this Oracle home. Finally, confirm the deinstallation with 'y'.

The \$ORACLE_HOME directory will be deleted after de-installation.

5. If you have an improper Oracle installation, a second installation will fail. You have to uninstall Oracle and then try from the beginning.

Troubles during Database Creation

When having troubles with the database creation, check the following:

- Database creation logs: %ORACLE_BASE%\cfgtools\dbca\<db name>
- Instance Parameter file: %ORACLE_BASE%\admin\<db name>\pfile\init.ora
- Instance SPFILE: %ORACLE_HOME%\dbs\spfile<db name>.ora

- Database Diagnostics: %ORACLE_BASE%\diag\rdbms\<db name>\<db name>
- Network configuration: %ORACLE_HOME%\network\admin*.ora

