

Oracle Enterprise Manager – Grid Control 10.2

Installation Guide

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Letztes Update: 09.10.2008

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1 Überblick

Oracle Enterprise Manager – Grid Control soll eingesetzt werden, um eine zentrale Monitoring-Plattform zur Verfügung zu stellen.

Es wird die Grid Control – Management Service Version 10.2.0.1 unter Linux auf SLES9 SP2 zusammen mit 10.1.0.3 Management Agents auf den HP-UX Itanium Servern eingesetzt.

Die folgende Dokumentation beinhaltet die Installation von

- 10.1.0.5 Datenbank (EMREP) als Management Repository auf oemhost1
- 10.2.0.1 Enterprise Manager Grid Control OMS auf oemhost1
- 10.1.0.3 Management Agents auf HP-UX Itanium

Eine Liste der Anforderungen kann MetaLink 335725.1 entnommen werden.

2 Installation Repository DB 10.1.0.3

Requirements:

```
grep MemTotal /proc/meminfo
MemTotal:      8308120 kB

grep SwapTotal /proc/meminfo
SwapTotal:     2101192 kB

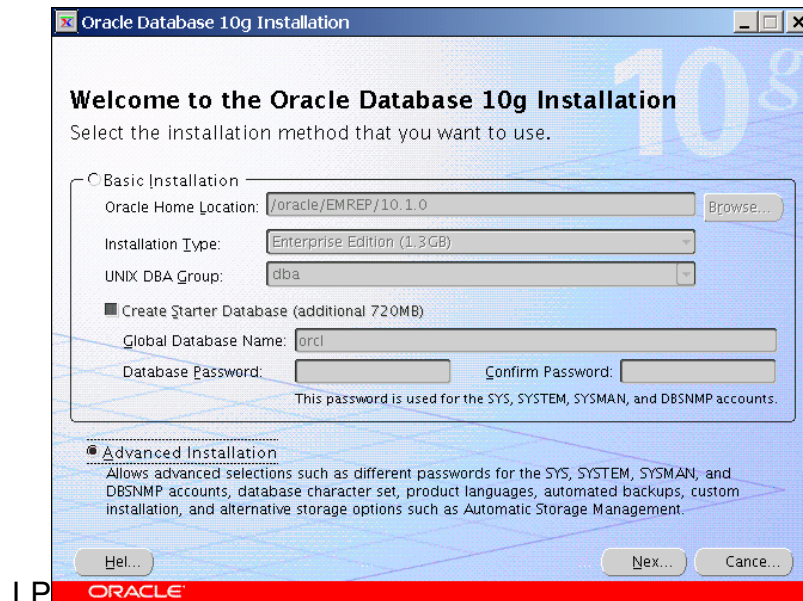
df -h /tmp
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg00-lv_tmp 1.0G   96M   929M  10% /tmp

df -h /opt/oracle
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg01-oracle 40G   4.6G   36G  12% /opt/oracle

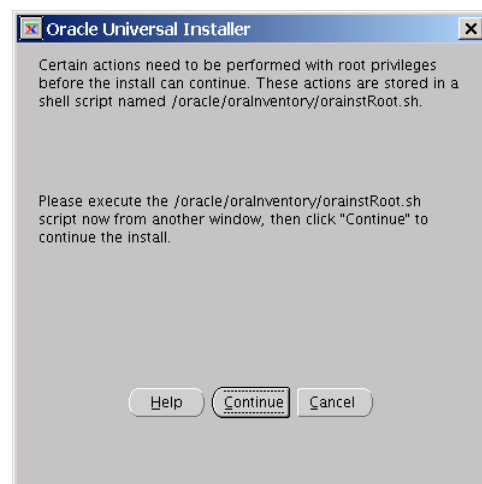
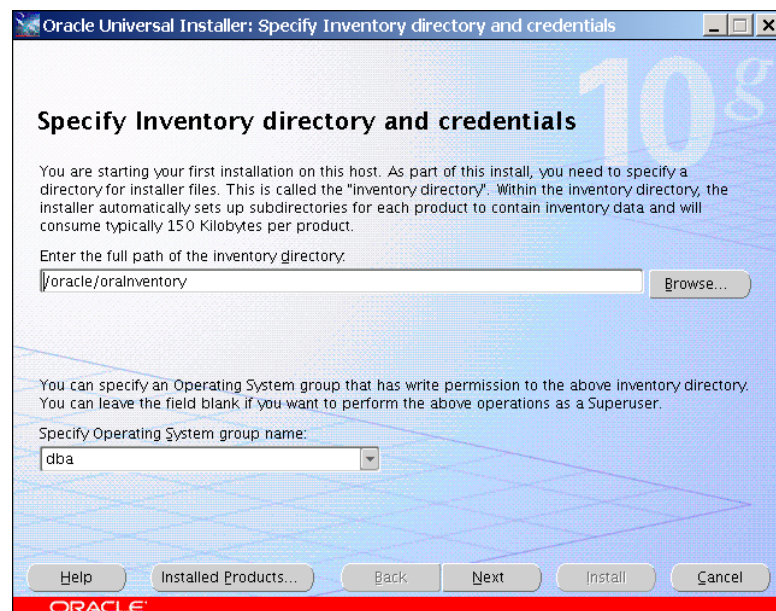
uname -a
Linux oemhost1 2.6.5-7.191-bigsm

oemhost1:~ # rpm -q -a | grep gcc-3.3
libgcc-3.3.3-43.34
gcc-3.3.3-43.34
oemhost1:~ # rpm -q -a | grep gcc-c++
gcc-c++-3.3.3-43.34
oemhost1:~ # rpm -q -a | grep glibc
glibc-devel-2.3.3-98.47
glibc-2.3.3-98.47
glibc-i18ndata-2.3.3-98.47
glibc-locale-2.3.3-98.47
oemhost1:~ # rpm -q -a | grep libaio
libaio-0.3.102-1.2
libaio-devel-0.3.102-.2
oemhost1:~ # rpm -q -a | grep libaio-devel
libaio-devel-0.3.102-1.2
oemhost1:~ # rpm -q -a | grep make
make-3.80-184.1
oemhost1:~ # rpm -q -a | grep openmotif-libs
openmotif-libs-2.2.2-519.1
oemhost1:~ # rpm -q -a | grep openmotif-2

cd /oracle/install/db10g/DB/Disk1
./runInstaller
```



LP



```
oemhost1:~ # /oracle/oraInventory/orainstRoot.sh
Creating the Oracle inventory pointer file (/etc/oraInst.loc)
```

Changing groupname of /oracle/oraInventory to dba.

Specify File Locations

Source
Enter the full path of the file representing the product(s) you want to install:
Path:

Destination
Enter or select a name for the installation and the full path where you want to install the product.
Name:
Path:

Select Installation Type

Oracle Database 10g 10.1.0.3.0

What type of installation do you want?

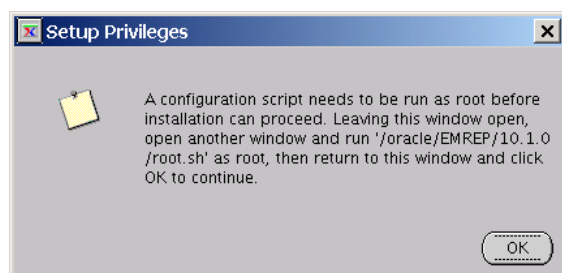
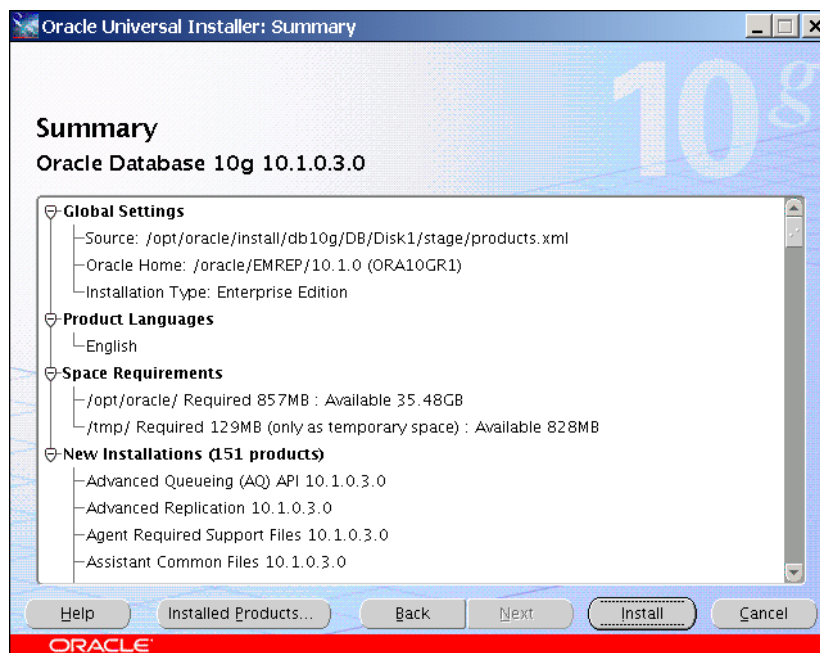
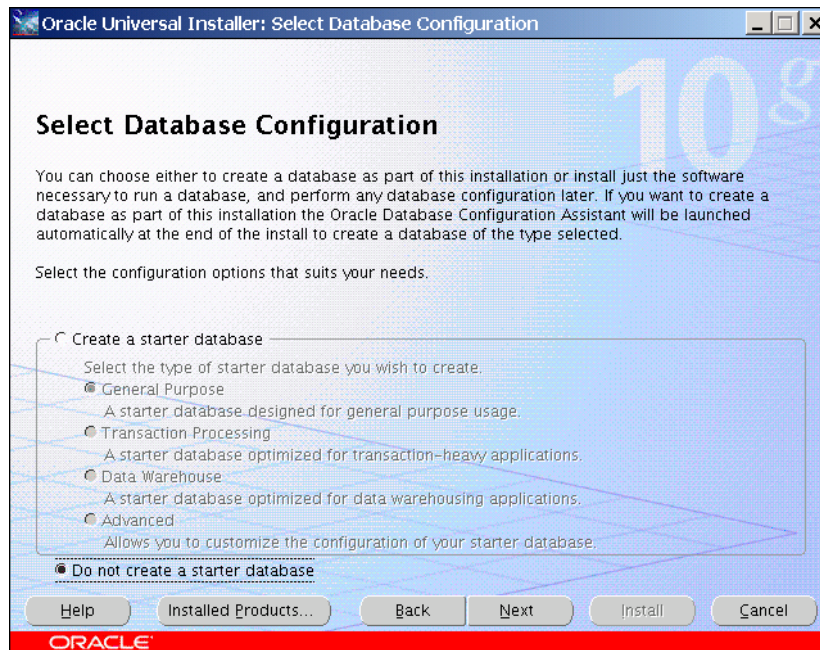
- ☒ **Enterprise Edition (877MB)**
Oracle Database 10g Enterprise Edition, the first database designed for the grid, is a self-managing database that has the scalability, performance, high availability and security features required to run the most demanding, mission critical applications.
- ☐ **Standard Edition (840MB)**
Oracle Database 10g Standard Edition is ideal for workgroups, departments and small-to-medium sized businesses looking for a lower-cost offering.
- ☐ **Custom**
Enables you to choose individual components to install.

The installer will now verify that the system meets all the minimum requirements for installing and configuring the chosen product. You are required to manually verify and confirm the items that are flagged as warnings or manual checks. For details on performing those checks, click on the item and see the details at the bottom.

Check	Type	Status
Checking operating system certification	Automatic	Succeeded
Checking kernel parameters	Automatic	Succeeded
Checking recommended operating system packages	Automatic	Warning
Checking recommended glibc version	Automatic	Succeeded
Validating ORACLE_BASE location (if set)	Automatic	Succeeded

1 requirements to be verified.

Checking for make-3.79; found make-3.80-184.1. Passed
Checking for binutils-2.11.90.0.8-12; found binutils-2.15.90.0.1.1-32.10. Passed
Checking for gcc-2.96; found gcc-3.3.3-43.34. Passed
Checking for openmotif-2.1.30-11; found Not found. Failed <<<<
Check complete. The overall result of this check is: Failed <<<<



```
oemhost1:~ # /oracle/EMREP/10.1.0/root.sh
Running Oracle10 root.sh script...
```

\n\nThe following environment variables are set as:

```
ORACLE_OWNER= oracle
ORACLE_HOME=  /oracle/EMREP/10.1.0
```

Enter the full pathname of the local bin directory: [/usr/local/bin]:

```
Copying dbhome to /usr/local/bin ...
Copying oraenv to /usr/local/bin ...
Copying coraenv to /usr/local/bin ...
```

\n\nCreating /etc/oratab file...

Adding entry to /etc/oratab file...

Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.

Now product-specific root actions will be performed.

/var/opt/oracle does not exist. Creating it now.

/etc/oracle does not exist. Creating it now.

Successfully accumulated necessary OCR keys.

Creating OCR keys for user 'root', privgrp 'root'..

Operation successful.

Oracle Cluster Registry for cluster has been initialized

Adding to inittab

Checking the status of Oracle init process...

Expecting the CRS daemons to be up within 600 seconds.

CSS is active on these nodes.

oemhost1

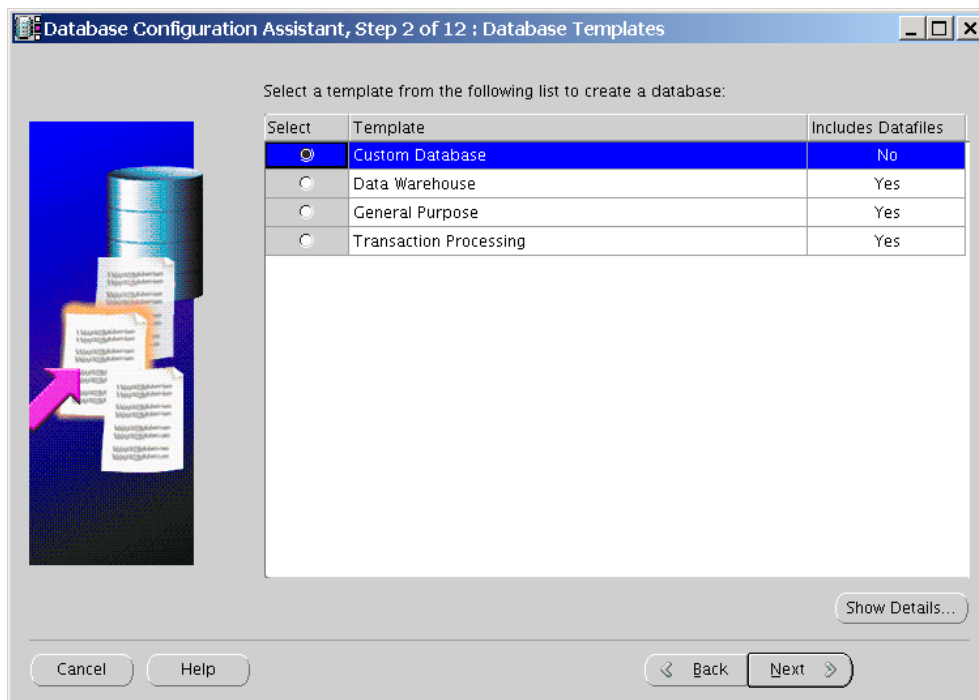
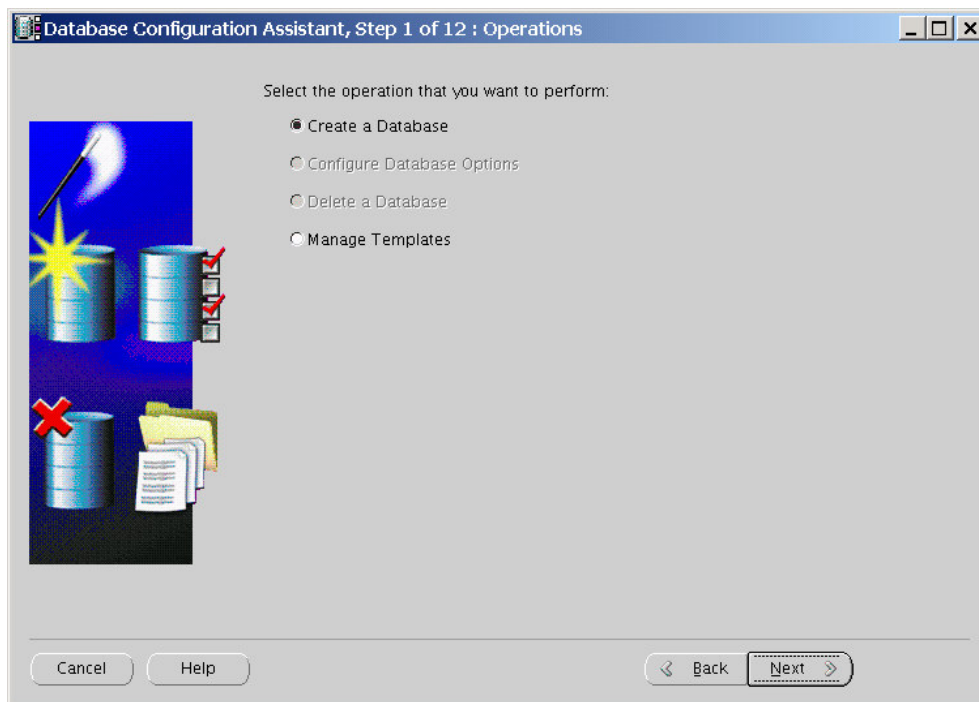
CSS is active on all nodes.

Oracle CSS service is installed and running under init(1M)



3 Create Database

Es werden mehrere Datenbank-Optionen installiert, die für das Repository zwar nicht notwendig sind, aber für den zukünftigen Einsatz der Datenbank hilfreich sind. (Text, UltraSearch, Intermedia, JVM, XML DB)



Database Configuration Assistant, Step 3 of 12 : Database Identification



An Oracle database is uniquely identified by a Global Database Name, typically of the form "name.domain".

Global Database Name:

A database is referenced by at least one Oracle instance which is uniquely identified from any other instance on this computer by an Oracle System Identifier (SID).

SID:

Cancel Help < Back Next >

Database Configuration Assistant, Step 5 of 12 : Database Credentials



For security reasons, you must specify passwords for the following user accounts in the new database.

☒ Use the Same Password for All Accounts

Password:

Confirm Password:

☐ Use Different Passwords

User Name	Password	Confirm Password
SYS		
SYSTEM		

Cancel Help < Back Next >

Database Configuration Assistant, Step 6 of 12 : Storage Options

Select the storage mechanism you would like to use for the database.

☒ File System
Use the File System for Database storage.

☐ Automatic Storage Management (ASM)
Automatic Storage Management simplifies database storage administration and optimizes database layout for I/O performance. To use this option you must either specify a set of disks to create an ASM disk group or specify an existing ASM disk group.

☐ Raw Devices
Raw partitions or volumes can provide the required shared storage for Real Application Clusters (RAC) databases if you do not use Automatic Storage Management and a Cluster File System is not available. You need to have created one raw device for each datafile, control file, and log file you are planning to create in the database.

☐ Specify Raw Devices Mapping File

Database Configuration Assistant, Step 7 of 12 : Database File Locations

Specify locations for the Database files to be created:

☐ Use Database File Locations from Template

☒ Use Common Location for All Database Files
Database Files Location:

☐ Use Oracle-Managed Files
Database Area:

 If you want to specify different locations for any database files, pick either of the above options and use the Storage page to specify each location.

Database Configuration Assistant, Step 8 of 12 : Recovery Configuration

Choose the recovery options for the database:

☐ Specify Flash Recovery Area

This is used as the default for all backup and recovery operations, and is also required for automatic backup using Enterprise Manager. Oracle recommends that the database files and recovery files be located on physically different disks for data protection and performance.

Flash Recovery Area: {ORACLE_BASE}/flash_recovery_ Browse...

Flash Recovery Area Size: 2048 M Bytes

☐ Enable Archiving Edit Archive Mode Parameters...

File Location Variables...

Cancel Help Back Next Finish

Database Configuration Assistant, Step 9 of 12 : Database Content

Database Components Custom Scripts

Select the components you want to configure for use in your database. Provide the tablespace in which you want the component to reside. Components which appear disabled are either not installed or depend on components which are not selected.

☒ Oracle Text SYSAUX

☐ Oracle OLAP SYSAUX

☐ Oracle Spatial SYSAUX

☐ Oracle Data Mining SYSAUX

☒ Oracle Ultra Search SYSAUX

☐ Oracle Label Security SYSTEM

☐ Sample Schemas SYSAUX

☐ Enterprise Manager Repository SYSAUX

Standard Database Components...

Cancel Help Back Next Finish

Standard Database Components

Select the standard database components you want to configure for use in your database. Oracle recommends that you always install these components in your database. Deselecting these components may cause you to no longer be able to choose some components on the previous page.

☒ Oracle JVM SYSTEM

☒ Oracle Intermedia SYSAUX

☒ Oracle XML DB SYSAUX Customize...

OK Help

Database Configuration Assistant, Step 10 of 12 : Initialization Parameters

Memory | Sizing | Character Sets | Connection Mode

☒ Typical - Allocate memory as a percentage of the total physical memory (8112 MB)
Percentage: 20 Show Memory Distribution...

☐ Custom
Shared Memory Management: ☒ Automatic ☐ Manual
SGA Size: 2403 M Bytes
PGA Size: 801 M Bytes

Total Memory for Oracle:
 Total memory includes 40MB of Oracle Process Size and the defaults for the empty parameters, if any.

All Initialization Parameters...

Cancel Help Back Next Finish

Database Configuration Assistant, Step 11 of 12 : Database Storage

Storage | Controlfile | Tablespaces | Datafiles | Redo Log Groups

Database Storage

From the **Database Storage** page, you can specify storage parameters for the database creation. This page displays a tree listing and summary view (multi-column lists) to allow you to change and view the following objects:

- Control files
- Tablespaces
- Datafiles
- Rollback Segments
- Redo Log Groups

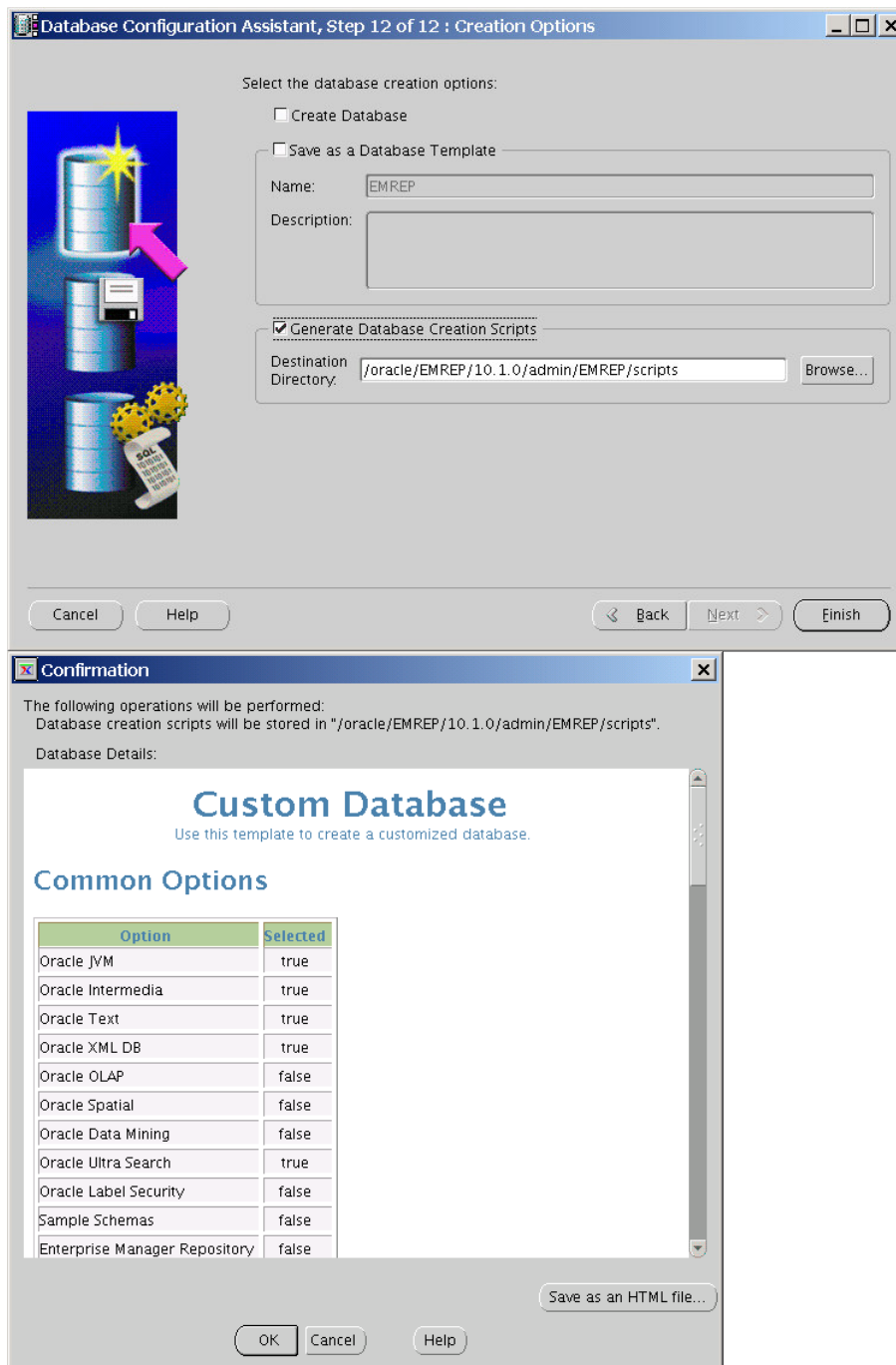
From any object type folder, click **Create** to create a new object. To delete an object, select the specific object from within the object type folder and click **Delete**.

Important: If you select a database template including data files, you will not be able to add or remove data files, tablespaces, or rollback segments. Selecting this type of template allows you to change the following:

- Destination of the datafiles
- Control files or log groups.

Create Delete File Location Variables...

Cancel Help Back Next Finish



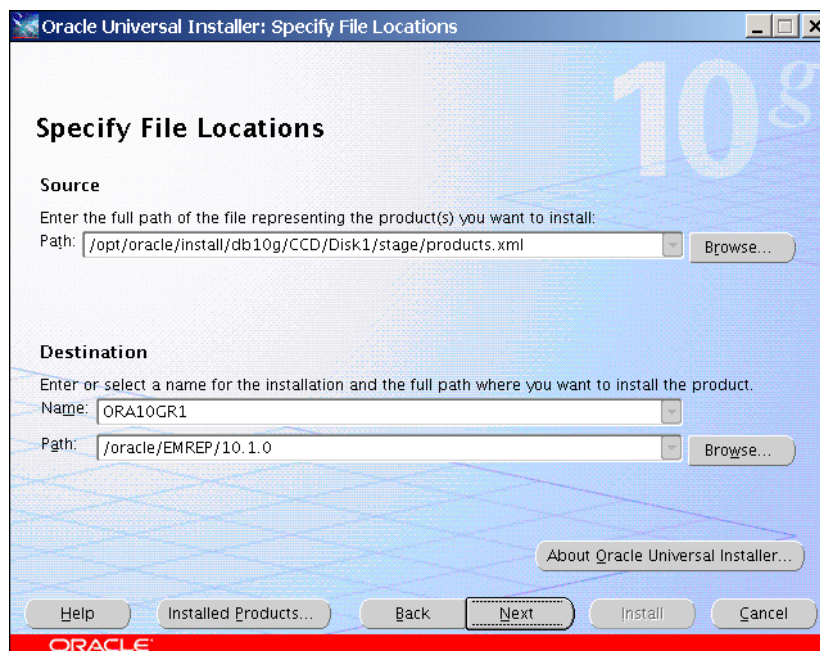
Verzeichnis-Struktur :

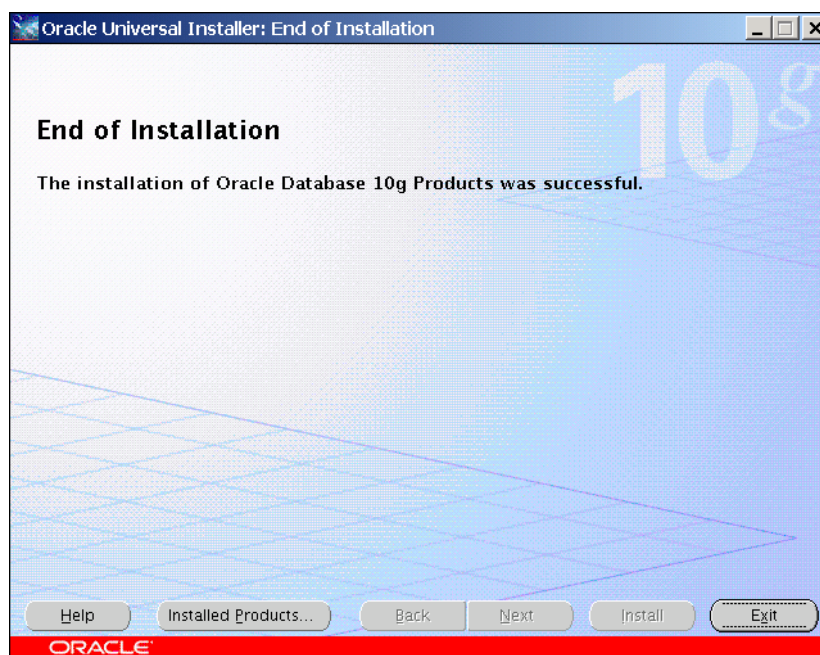
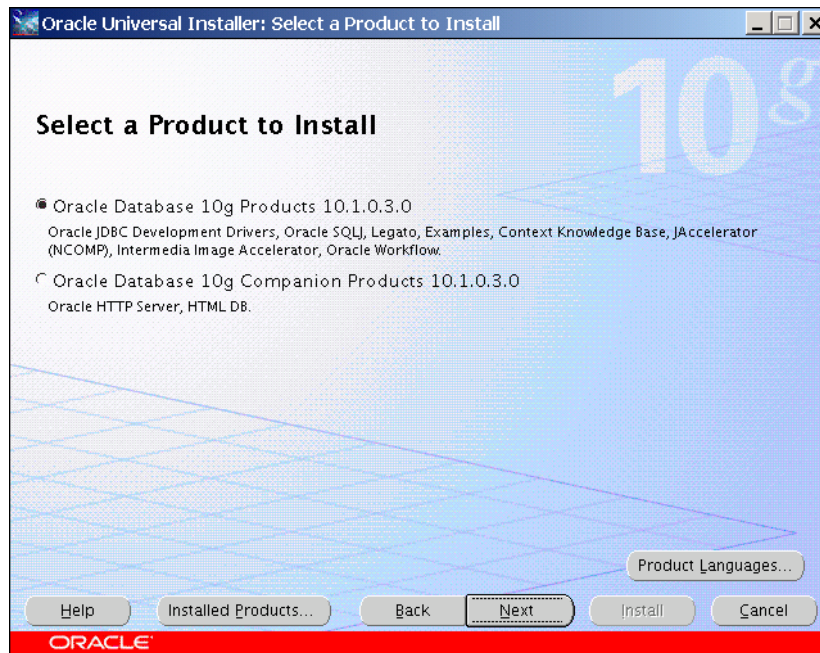
- /oracle/oraInventory
- /oracle/oem10g
- /oracle/agent10g
- /oracle/EMREP
- /oracle/EMREP/10.1.0
- /oracle/EMREP/oraarch
- /oracle/EMREP/oratrace
- /oracle/EMREP/origlogA
- /oracle/EMREP/origlogB
- /oracle/EMREP/oradata

Nach dem Erstellen der Create-Scripte werden die Pfade gemäß der oberen Struktur angepasst und die Scripte manuell ausgeführt.

4 Installation Companion CD für NCOMP

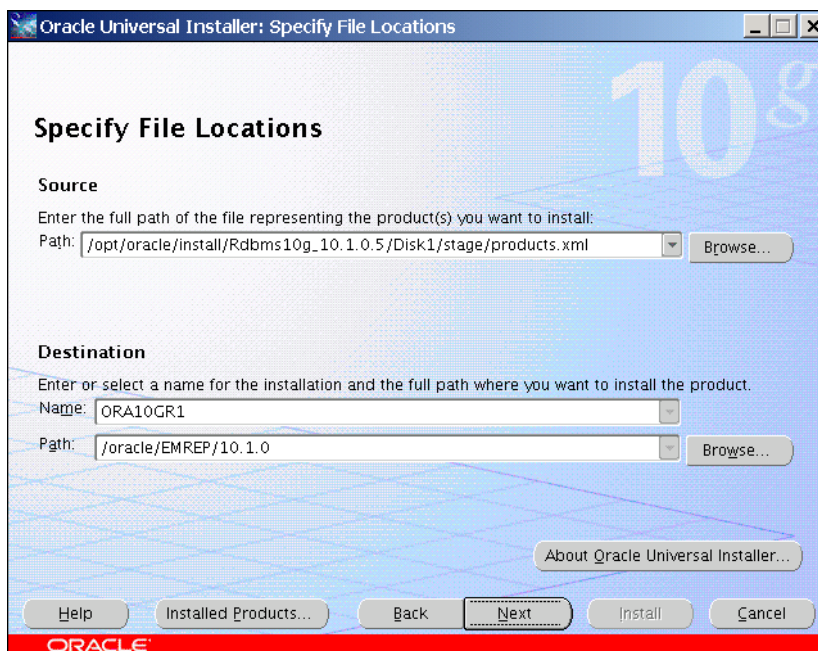
```
./runInstaller
```

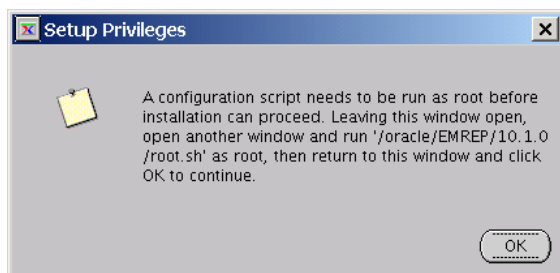




5 Upgrade DB auf 10.1.0.5

```
./runInstaller
```





```
oemhost1:~ # /oracle/EMREP/10.1.0/root.sh
Running Oracle 10g root.sh script...
```

The following environment variables are set as:

```
ORACLE_OWNER= oracle
ORACLE_HOME= /oracle/EMREP/10.1.0
```

Enter the full pathname of the local bin directory: [/usr/local/bin]:

The file "dbhome" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]: y

Copying dbhome to /usr/local/bin ...

The file "oraenv" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]: y

Copying oraenv to /usr/local/bin ...

The file "coraenv" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]: y

Copying coraenv to /usr/local/bin ...

Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.

Now product-specific root actions will be performed.

clscfg: EXISTING configuration version 2 detected.

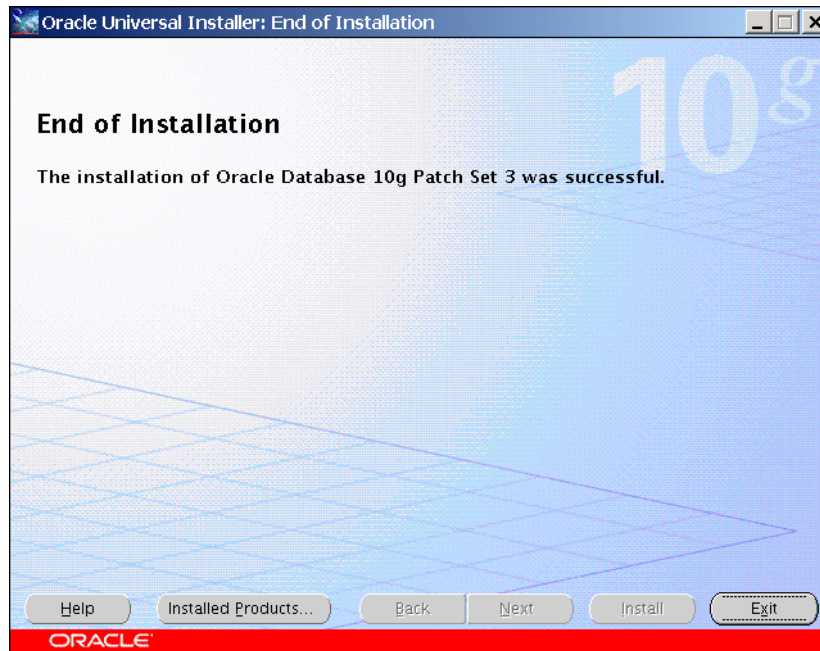
clscfg: version 2 is 10G Release 1.

Successfully accumulated necessary OCR keys.

clscfg: Arguments check out successfully.

NO KEYS WERE WRITTEN. Supply -force parameter to override.
-force is destructive and will destroy any previous cluster
configuration.

Oracle Cluster Registry for cluster has already been initialized
Starting Oracle CSS service under init(1M)
Startup will be queued to init within 90 seconds.
Expecting the CRS daemons to be up within 120 seconds.
CSS is active on these nodes.
 oemhost1
CSS is active on all nodes.
Oracle CSS service is installed and running under init(1M)



```
SQL> STARTUP UPGRADE
SQL> SPOOL patch.log
SQL> @?/rdbms/admin/catpatch.sql
SQL> SPOOL OFF
```

6 Installation OPatch-Patch

```
mv $ORACLE_HOME/OPatch $ORACLE_HOME/OPatch.old  
cp -r /oracle/install/patch/OPatch $ORACLE_HOME/
```

7 Installation CPU Jan 2006

```
/etc/init.d/init.cssd stop  
Shutdown der Instanz und Listener
```

```
cd 4751932  
$ORACLE_HOME/OPatch/opatch apply
```

```
cd $ORACLE_HOME/cpu/CPUJan2006
```

```
sqlplus> sqlplus /nolog
```

```
sqlplus> connect / as sysdba
```

```
sqlplus> STARTUP
```

```
sqlplus> @catcpu.sql
```

```
sqlplus> QUIT
```

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

```
TIMESTAMP
```

```
-----  
-----  
-----  
-----
```

```
COMP_TIMESTAMP UTLRP_BGN 2006-03-15 09:46:56
```

```
TIMESTAMP
```

```
-----  
-----  
-----  
-----
```

```
COMP_TIMESTAMP UTLRP_END 2006-03-15 09:47:08
```

```
Invoking Ultra Search Install/Upgrade validation procedure VALIDATE_WK  
Ultra Search VALIDATE_WK done with no error
```

8 Aktivieren von Async/DirectIO

Beim Filesystem /oracle, auf dem sich die Datafiles der Datenbank EMREP befinden, wird reiserFS eingesetzt.

MetaLink Note:279069.1: Compatibility Matrix: Linux, Filesystem & I/O Type

In dieser MetaLink Note wird beschrieben, dass bei SLES9 reiserFS für Async I/O und Direct I/O unterstützt wird. Allerdings muss dazu das Filesystem mit „notail“ gemountet sein. Der Parameter „notail“ bedeutet einen Performance-Gewinn auf Kosten von Speicherkapazität.

```
shutdown immediate
cd $ORACLE_HOME/rdbms/lib
make PL_ORALIBS=-laio -f ins_rdbms.mk async_on
make PL_ORALIBS=-laio -f ins_rdbms.mk ioracle
```

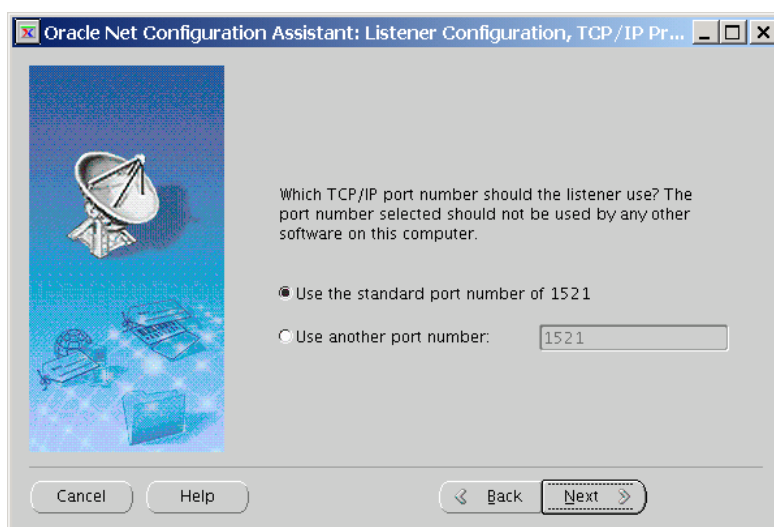
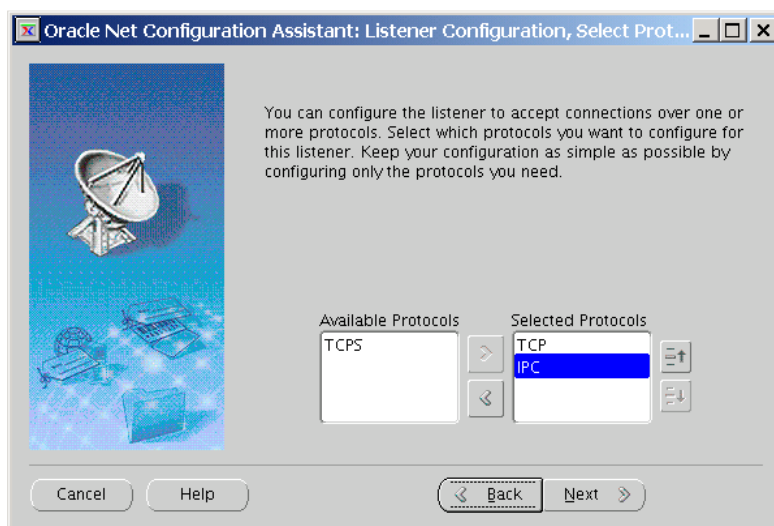
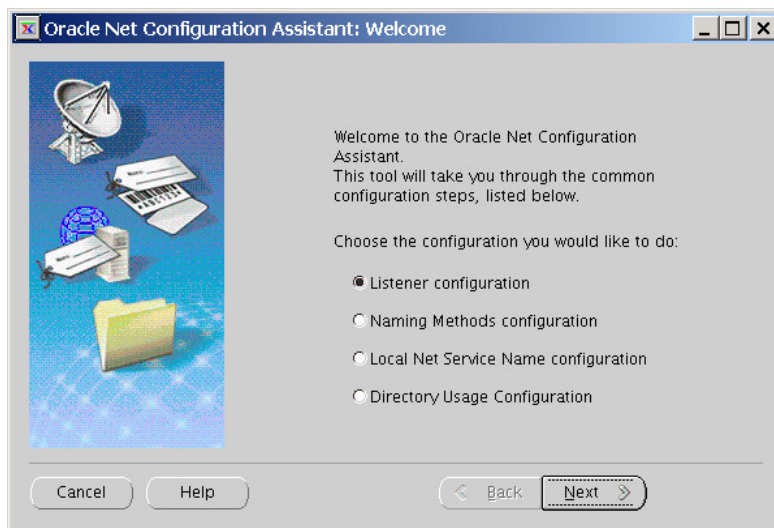
Für Async I/O:

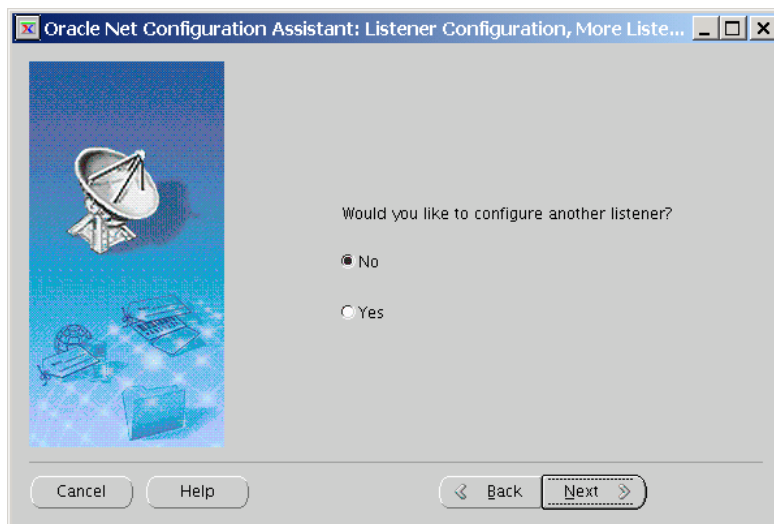
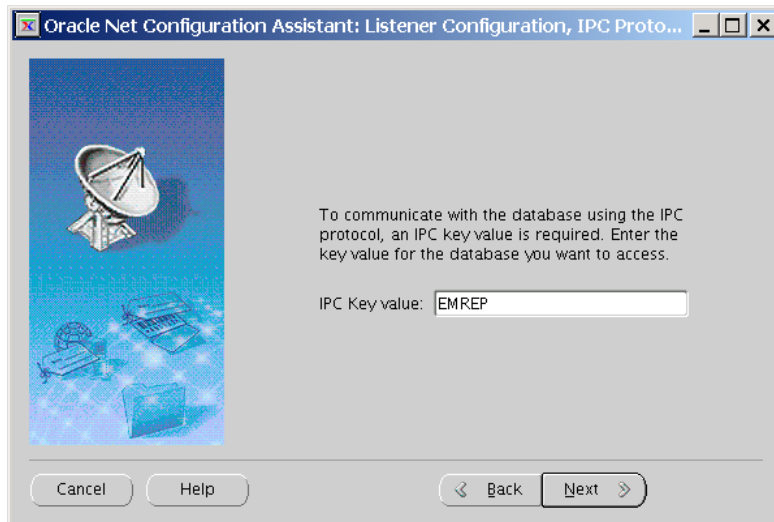
```
ALTER SYSTEM SET filesystemio_options = "asynch" SCOPE=SPFILE;
```

Für direct I/O:

```
ALTER SYSTEM SET filesystemio_options = "setall" SCOPE=SPFILE;
```

9 Listener-Konfiguration





10 VLM-Konfiguration

MetaLink Note: 317139.1

How to Configure SuSE SLES 9 32-bit for Very Large Memory with ramfs and hugepages

Es soll VLM eingesetzt werden, mit ca. 5 GB /dev/shm für Database Buffer Cache.

11 Installation Grid Control 10.2.0.1

OS-Requirements:

SUSE Linux Enterprise Server 9.0

- glibc-2.2.4-31.7
- make-3.79
- binutils-2.11.90.0.8-12
- gcc-2.96
 - **openmotif-libs-2.2.2-519.1**
 - **openmotif-2.2.2-519.1**

Kernel: (/etc/sysctl.conf, /sbin/sysctl)

- semmsl = 250
- semmns = 32000
- semopm = 100
- semmni = 128
- shmmax = 2147483648
- shmmni = 4096
- shmall = 2097152
- shmmin = 1
- shmseg = 10
- filemax = 65536

On SUSE systems only, enter the following command to ensure that the system reads

the /etc/sysctl.conf file when it restarts:

```
# /sbin/chkconfig boot.sysctl on
```

Hardware-Requirements:

-> Produktionsumgebung

OMS:

1x3GHz CPU
2 GB RAM
2 GB HDD

Repository-DB:

1x3GHz CPU
2 GB RAM
10 GB HDD

Agent:

400MB HDD

Management Repository Software Requirements:

- Oracle 10gR1 (10.1.0.3 and higher), Enterprise Edition
 - Oracle 10g RAC (10.1.0.3 and higher)
 - Oracle 9iR2 (9.2.0.6 or higher), Enterprise Edition
- Note that the Enterprise Edition database you use for the Management Repository must have fine-grained access control turned on.

Pre-Requisite Checker.

```
oracle@oemhost1:/oracle/install/oem10g> ./install/runInstaller -prereqchecker
PREREQ_CONFIG_LOCATION=rdbms/Disk1/stage/prereq -entryPoint oracle.sysman.top.oms_Core -
prereqLogLoc /oracle/install/oem10g/install_log -silent -waitForCompletion
Starting Oracle Prerequisite Checker...
```

Checking installer requirements...

Checking operating system version: must be redhat-3, redhat-4 or SuSE-9
Passed

All installer requirements met.

Preparing to launch Oracle Universal Installer from /tmp/OraInstall2006-03-15_11-49-23AM.
Please wait ...
Oracle Prerequisite Checker version Version 10.2.0.1.0 Production
Copyright (C) 1999, 2005, Oracle. All rights reserved.

Starting execution of Prerequisites...
Total No of checks: 8

Performing check for Packages
Checking operating system package requirements ...
Checking for make-3.79; found make-3.80-184.1. Passed
Checking for binutils-2.11.90.0.8-12; found binutils-2.15.90.0.1.1-32.10. Passed
Checking for gcc-2.96; found gcc-3.3.3-43.34. Passed
Checking for openmotif-2.1.30-11; found openmotif-2.2.2-519.1. Passed
Check complete. The overall result of this check is: Passed

Check complete: Passed
=====

Performing check for CertifiedVersions
Checking operating system requirements ...
Expected result: One of redhat-3,redhat-4,SuSE-8,SuSE-9
Actual Result: SuSE-8
Check complete. The overall result of this check is: Passed

Check complete: Passed
=====

Performing check for GLIBC
Checking whether required GLIBC installed on the system
Expected result: ATLEAST=2.2.4-31.7
Actual Result: 2.3.3-98.47
Check complete. The overall result of this check is: Passed

Check complete: Passed
=====

Performing check for emptyOracleHome
Checking oracle home is empty or not
Check complete. The overall result of this check is: Passed

Check complete: Passed
=====

Performing check for MemoryCheck
Checking for the physical memory ...
Expected result: 512MB
Actual Result: 8112MB
Check complete. The overall result of this check is: Passed

```

Check complete: Passed
=====
Performing check for compatibilityChecks
Checking for Oracle Home incompatibilities ....
Actual Result: NEW_HOME
Check complete. The overall result of this check is: Passed

Check complete: Passed
=====
Performing check for OracleHomeSpaceCheckForEmnoseed
Oracle Home Space check....
Check complete. The overall result of this check is: Not executed <<<<

Check complete: Not executed <<<<
Recommendation: Try to install in different Oracle Home.

=====
Performing check for CheckHostName
Checking for Hostname....
Check complete. The overall result of this check is: Passed

Check complete: Passed
=====
PrereqChecks complete

```

Installation:

- * Universal Installer erzeugt Oracle-Home Verzeichnisse db10g, oms10g, agent10g unter dem "Parent Directory"
- * one allroot.sh script

ias_admin: Oracle Application Server Admin

No Enterprise Manager specific environment variables need to be set prior to installation. The \$ORACLE_HOME and \$ORACLE_SID variables should not be set; Oracle directories should not appear in the PATH.

Setting Dispatchers to NULL:

```

SQL> show parameter disp

NAME                                TYPE                                VALUE
-----                                -                                -
dispatchers                         string                             (PROTOCOL=TCP) (SERVICE=PRODXD
B)

SQL> alter system set DISPATCHERS='';

SQL> @?/rdbms/admin/dbmspool.sql

Package created.

Grant succeeded.

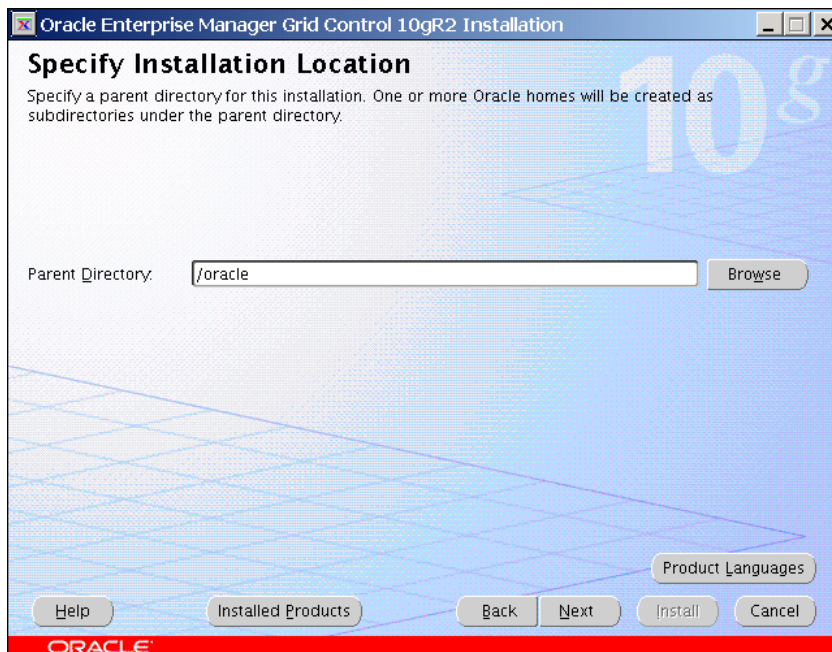
View created.

```

Package body created.

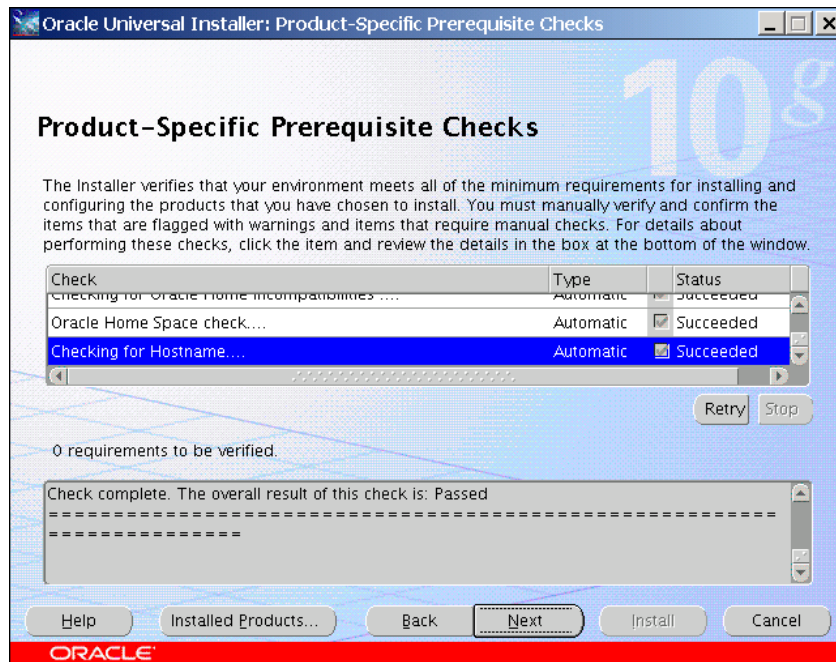
```
SQL> @?/rdbms/admin/prvtpool.plb
```

```
./runInstaller
```



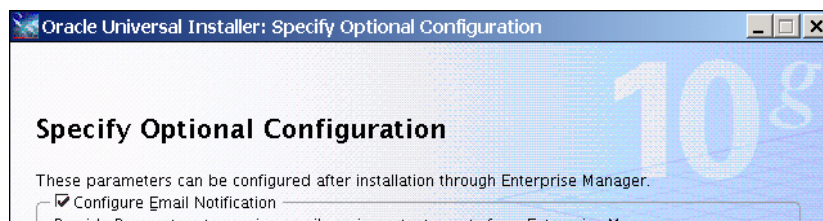
Achtung:

Lt. MetaLink Note 352357.1 darf der Pfad kein Symlink sein!

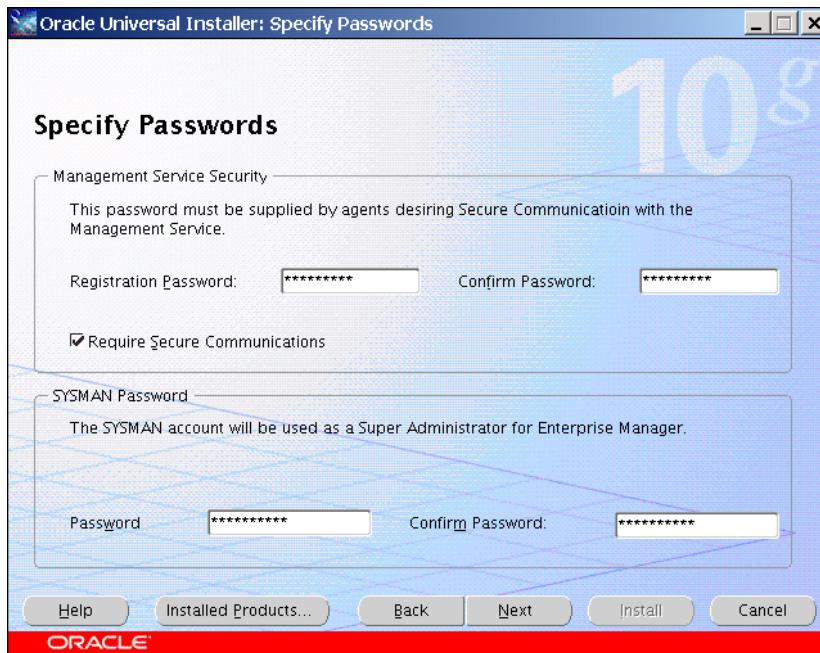


Setzen Sie Database Hostname auf "oemhost1.intra", den Port auf 1521 und das entsprechende SYS Passwort. Weiters sind die Pfade für die Datafiles anzupassen.

Anmerkung: Die Installation mit einem Service Namen, z.B. S_EMREP hat nicht funktioniert. Stattdessen muss hier die SID EMREP angegeben werden.



The SMTP Server is the name of the mail server (for example mail.acme.com). For Linux, the SMTP server must be the local host name. Use the fully-qualified host name (including domain).



Oracle Universal Installer: Specify Passwords

Specify Passwords

Management Service Security
This password must be supplied by agents desiring Secure Communication with the Management Service.

Registration Password: Confirm Password:

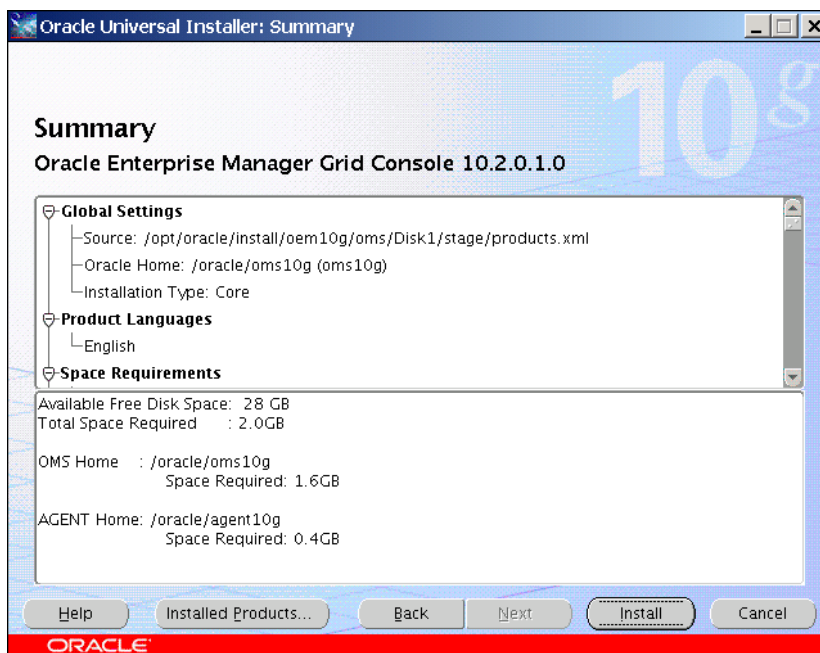
☒ Require Secure Communications

SYSMAN Password
The SYSMAN account will be used as a Super Administrator for Enterprise Manager.

Password: Confirm Password:

Help Installed Products... Back Next Install Cancel

ORACLE



Oracle Universal Installer: Summary

Summary

Oracle Enterprise Manager Grid Console 10.2.0.1.0

Global Settings

- Source: /opt/oracle/install/oem10g/oms/Disk1/stage/products.xml
- Oracle Home: /oracle/oms10g (oms10g)
- Installation Type: Core

Product Languages

- English

Space Requirements

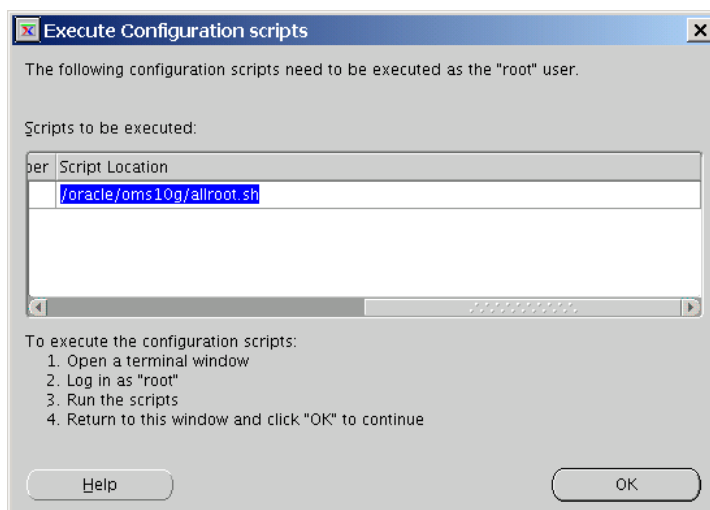
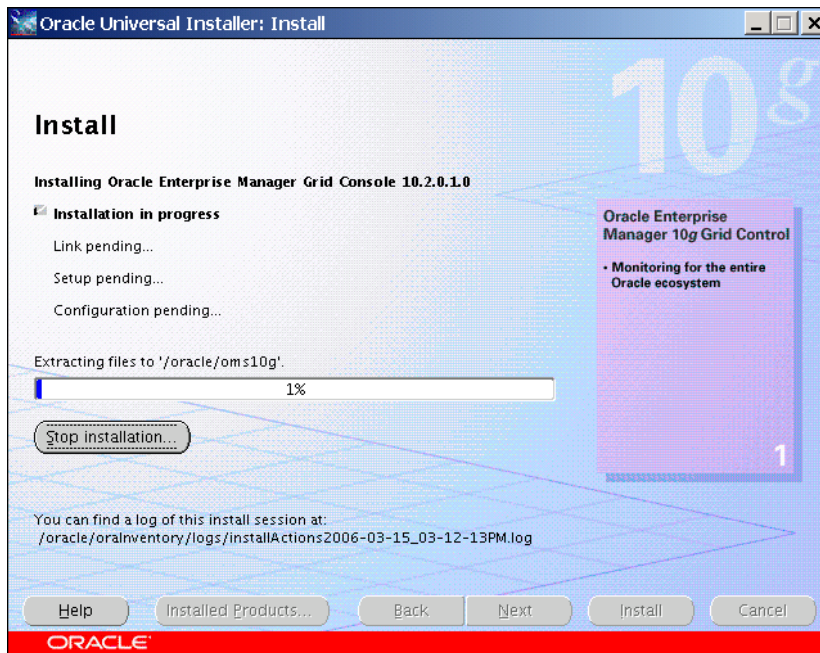
Available Free Disk Space: 28 GB
Total Space Required : 2.0GB

OMS Home : /oracle/oms10g
Space Required: 1.6GB

AGENT Home: /oracle/agent10g
Space Required: 0.4GB

Help Installed Products... Back Next Install Cancel

ORACLE



```
oemhost1:/var/log # /oracle/oms10g/allroot.sh
```

```
Starting to execute allroot.sh .....
```

```
Starting to execute /oracle/oms10g/root.sh .....
```

```
Running Oracle10 root.sh script...
```

```
\n\nThe following environment variables are set as:
```

```
ORACLE_OWNER= oracle
```

```
ORACLE_HOME= /oracle/oms10g
```

```
Enter the full pathname of the local bin directory: [/usr/local/bin]:
```

```
The file "dbhome" already exists in /usr/local/bin. Overwrite it? (y/n)
```

```
[n]: y
```

```
Copying dbhome to /usr/local/bin ...
```

```
The file "oraenv" already exists in /usr/local/bin. Overwrite it? (y/n)
```

```
[n]: y
```

```
Copying oraenv to /usr/local/bin ...
```

```
The file "coraenv" already exists in /usr/local/bin. Overwrite it? (y/n)
```

```
[n]: y
```

```
Copying coraenv to /usr/local/bin ...
```

```
Adding entry to /etc/oratab file...
```

```
Entries will be added to the /etc/oratab file as needed by
```

```
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
/bin/ln: creating hard link `/etc/rc3.d/S99gcstartup' to `/etc/init.d/gcstartup':
No such file or directory
Finished execution of /oracle/oms10g/root.sh .....
```

```
Starting to execute /oracle/agent10g/root.sh .....
Running Oracle10 root.sh script...
```

```
The following environment variables are set as:
  ORACLE_OWNER= oracle
  ORACLE_HOME=  /oracle/agent10g
```

```
Enter the full pathname of the local bin directory: [/usr/local/bin]:
The file "dbhome" already exists in /usr/local/bin.  Overwrite it? (y/n)
[n]: y
    Copying dbhome to /usr/local/bin ...
The file "oraenv" already exists in /usr/local/bin.  Overwrite it? (y/n)
[n]: y
    Copying oraenv to /usr/local/bin ...
The file "coraenv" already exists in /usr/local/bin.  Overwrite it? (y/n)
[n]: y
    Copying coraenv to /usr/local/bin ...
```

```
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
Finished product-specific root actions.
```

```
Finished execution of /oracle/agent10g/root.sh .....
```

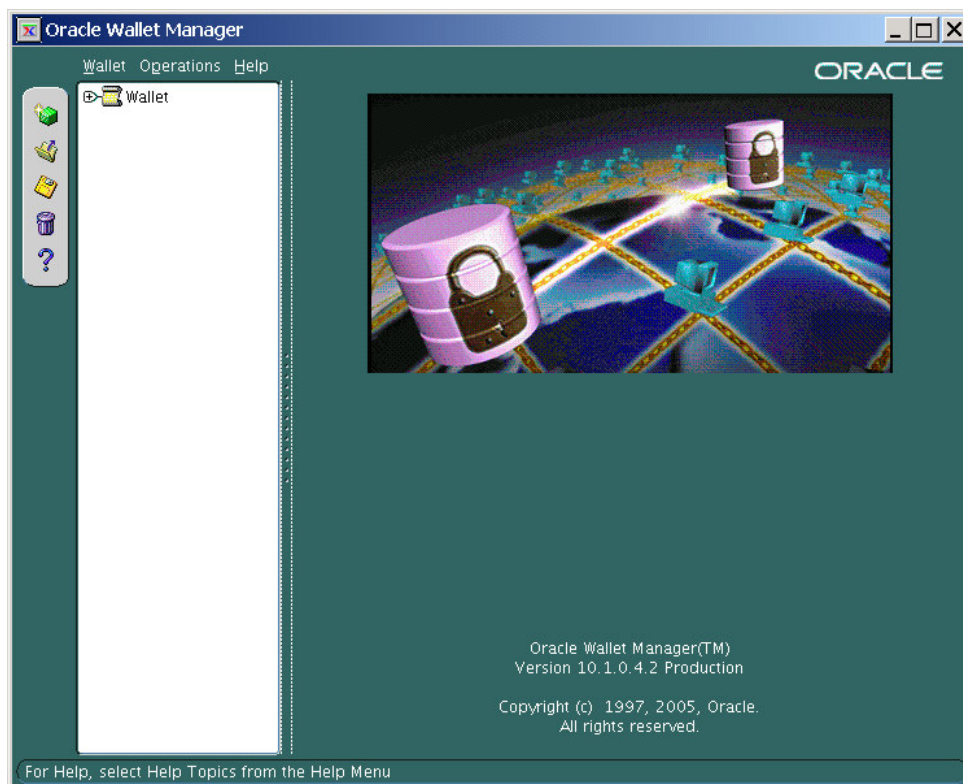
12 Konfiguration von Oracle AS Web Cache für SSL Requests

Um SSL aktivieren zu können, muss ein authorisiertes Zertifikat erstellt werden. Mittels Oracle Wallet Manager wird ein Certificate Request erzeugt, der dann mittels openssl authorisiert wird.

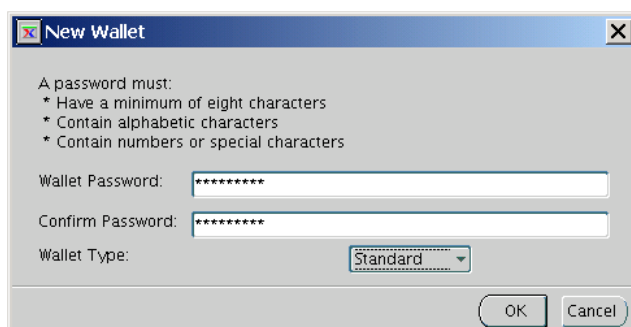
```
super root
mkdir /etc/ORACLE
chown oracle:dba /etc/ORACLE
```

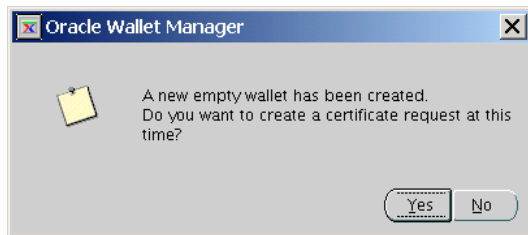
```
su - oracle
. GRID.env
```

owm

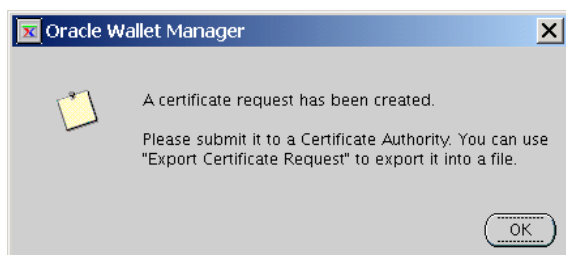


Wallet -> New

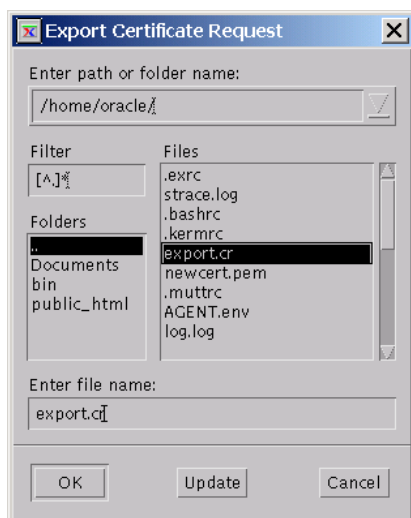




Setzen Sie die Felder Common Name, Organizational Unit, etc. entsprechend.



Wählen Sie den Punkt "Certificate Request" mit der rechten Maustaste und selektieren Sie "Export Certificate Request".



als root:

```
super root
mkdir /var/oemhost1-ssl
cp /etc/ssl/openssl.cnf /etc/ssl/openssl.cnf.orig
vi /etc/ssl/openssl.cnf

dir                = /var/oemhost1-ssl

cd /var/oemhost1-ssl
cp /usr/share/ssl/misc/CA.pl .
vi CA.pl

$CATOP=".";
```

```
./CA.pl -newca  
CA certificate filename (or enter to create)
```

Making CA certificate ...

Generating a 1024 bit RSA private key

.++++++

.....++++++

writing new private key to './private/cakey.pem'

Enter PEM pass phrase:

Verifying - Enter PEM pass phrase:

Verify failure

Enter PEM pass phrase:

Verifying - Enter PEM pass phrase:

You are about to be asked to enter information that will be incorporated into your certificate request.

What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank

For some fields there will be a default value,

If you enter '.', the field will be left blank.

Country Name (2 letter code) [DE]:DE

State or Province Name (full name) [Some-State]:Bayern

Locality Name (eg, city) []:Munich

Organization Name (eg, company) [Internet Widgits Pty Ltd]:ora-solutions.net

Organizational Unit Name (eg, section) []: n/a

Common Name (eg, YOUR name) []: n/a

Email Address []:martin.decker@ora-solutions.net

```
cp /home/oracle/export.cr newreq.pem
```

```
vi newreq.pem # (Entfernen aller Zeilen ausser zwischen BEGIN und END CR)
```

-----BEGIN CERTIFICATE REQUEST-----

```
MIIB8DCCAQkCAQAwga8xCzAJBgNVBAYTAkRFMQ8wDQYDVQQIEwZCYXllcm4xDzANBgNVBACTBk1lbmljaDEdMBsGA1UEChMUTG95YWx0eSBQYXJ0bmVyeEdtYkgxEjAQBgNVBAsTCURhdGF1YXNlczEeMBwGA1UEAxMVbHBsbW9uMS5tZ210LmxwcnouY29tMSswKQYJKoZIhvcNAQkBFhxxYXRhYmFzZXNAbG95YWx0eXBhcnRuZXIuY29tMIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDTorSE+/zfUmiYfS09aCNcjHHQ5OFTY+OdPW03stulqrLJReh500XxveuJyPZLYUOa/VlsfaW9ZaWZOqQS8gN4NBrReIKTtD6VPsHt/SpDIkETklurUoyqiDhWgP6jaALoi/crhtQmUgWNswL/kj9/ZgscLDXuP/rjXCsvJZifSwIDAQABoAAwDQYJKoZIhvcNAQEEBQADgYEAECJuZEIc9j/ESY43sWEQDypvU7kqV09u+2zR3GKr8Asmw77DKk17dfGjCGJpBG2DzSpBOTu3jp7UA9T+10AtnVqBRitcVXL0xXzNpJnGRCCYPTi4xghvaPTQdIQXxYPpXkXI06a+T7zA1NOjF7SA3AV2D0gIGSDSLcGdA8zoUEE=
```

-----END CERTIFICATE REQUEST-----

```
./CA.pl -signreq
```

Enter pass phrase for /var/oemhost1-ssl/private/cakey.pem:

Check that the request matches the signature

Signature ok

Certificate Details:

Serial Number: 1 (0x1)

Validity

Not Before: Mar 20 13:04:52 2006 GMT

Not After : Mar 20 13:04:52 2007 GMT

Subject:

countryName = DE

stateOrProvinceName = Bayern

localityName = Munich

organizationName = ora-solutions.net

organizationalUnitName = n/a

commonName = oemhost1.intra

X509v3 extensions:

X509v3 Basic Constraints:

CA:FALSE

```
Netscape Comment:
  OpenSSL Generated Certificate
X509v3 Subject Key Identifier:
  0F:0C:78:52:24:F1:1B:07:A8:4E:75:04:6B:93:F3:C2:9B:71:10:DB
X509v3 Authority Key Identifier:
  keyid:98:EF:50:7C:20:5B:1C:79:A2:DD:63:9B:B9:FE:5B:FB:B6:D4:7F:B9
  DirName:/C=DE/ST=Bayern/L=Munich/O=ora-
solutions.net/OU=/CN=/emailAddress=martin.decker@ora-solutions.net
  serial:00
```

```
Certificate is to be certified until Mar 20 13:04:52 2007 GMT (365 days)
Sign the certificate? [y/n]:y
```

```
1 out of 1 certificate requests certified, commit? [y/n]y
Write out database with 1 new entries
Data Base Updated
Signed certificate is in newcert.pem
```

```
als oracle:
```

```
cp /var/oemhost1-ssl/newcert.pem /home/oracle/newcert.pem
vi /etc/newcert.pem # (Entfernen aller Zeilen au erhalb von BEGIN/END CERTIFICATE)
```

```
own
```

- ➔ Operations -> Import Trusted Certificate -> /var/oemhost1-ssl/cacert.pem
- ➔ Operations -> Import User Certificate -> -> /var/oemhost1-ssl/newcert.pem (evtl. davor noch das File newcert.pem)
- ➔ Wallet -> Auto-Login
- ➔ Wallet -> Save
- ➔ Wallet -> Exit

Webcache Configuration:

```
super oracle
. GRID.env
emctl start iasconsole
```

```
http://oemhost1.intra:1156/emd/
```

Selektieren Sie "WebCache von den System Components

Web Cache Page Refreshed Mar 21, 2006 8:38:11 AM

[Home](#) [Performance](#) [Administration](#)

General **Activity**

Start

Status **Unknown**

Up Since **Unavailable**

CPU Usage (%) **Unavailable**

Memory Usage (MB) **Unavailable**

Origin Servers **Unavailable**

Cache Size Limit (MB) **Unavailable**

Cache Size (MB) **Unavailable**

Cached Documents **Unavailable**

Requests Per Second **Unavailable**

Error Rate (%) **Unavailable**

Response Time (ms) **Unavailable**

Open Connections **Unavailable**

Related Link [All Metrics](#)

[Home](#) [Performance](#) [Administration](#)

[Logs](#) | [Topology](#) | [Preferences](#) | [Help](#)

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About Oracle Enterprise Manager 10g Application Server Control

Dann "Administration".

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Web Cache Administration

Web Cache administration involves configuring properties for initial cache setup, as well as performing operation tasks, such as invalidating content and establishing rollover times for event and access log files.

Use the Application Properties links to modify the application environment, such as where your origin servers are running.

Use the Web Cache Properties links to modify Web Cache configuration, such as listening ports.

Use the Cluster Properties links to configure a cluster of caches.

Use the Operations links to invalidate cache content or rollover log files.

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Add a row:

IP Address: *

Port: 8250

Protocol : HTTPS

Require Client-Side Certificate for HTTPS : Not Required

Wallet For HTTPS: /etc/ORACLE/WALLETS/oracle

OK

Ports

Page Refreshed Mar 20, 2006 5:16:53 PM [Cancel](#) [OK](#)

Listen Ports

Web Cache receives browser requests on listen ports. Changing listen ports may affect settings in site definitions. Changing a port number or IP address for Web Cache may affect other Oracle Application Server components. Parameters in other components may need to be updated to ensure that ports are not in conflict. In particular, page redirects in the origin server may require reconfiguration.

IP Address	Port	Protocol	Require Client-Side Certificates For HTTPS	Wallet For HTTPS	Delete
*	7777	HTTP	Not Required		
*	8250	HTTPS	Not Required	/etc/ORACLE/WALLETS/oracle	

[Add a row](#)

Operation Ports

Web Cache also receives administration, invalidation, and statistics monitoring requests on operation ports. These ports are not usually changed unless there are port conflicts.

	IP Address	Port	Protocol	Require Client-Side Certificates For HTTPS	Wallet For HTTPS
Administration	*	9400	HTTP	Not Required	
Invalidation	*	9401	HTTP	Not Required	
Statistics	*	9402	HTTP	Not Required	

[Cancel](#) [OK](#)

[Logs](#) | [Topology](#) | [Preferences](#) | [Help](#)

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Create Origin Server:

Protocol: HTTPS

Wählen Sie "Create Origin Server", Host "oemhost1.intra", Port 8250, Protocol HTTPS.

OK

Wählen Sie "Create Named Site", dann Host "oemhost1.intra", Port 8250 und wählen Sie aus den "Available Origin Servers" den Eintrag "oemhost1.intra" aus.

Create Named Site
Create a named site to define site-specific caching rules, error pages, logs, sessions, aliases. You can also view performance metrics for named sites. Cancel OK

General **Advanced**

Security
HTTPS Restriction
☐ The site does not require HTTPS requests.
☒ The whole site requires HTTPS.
☐ Part of the site requires HTTPS. The restricted area begins with the following directory prefix.
Prefix
☐ Require Client-Side Certificate
For HTTPS requests, you can require browsers to provide client-side SSL certificates for verifying the identity of the client.

Session Binding
Default Session Binding Disabled
☒ Use default
☐ Enable session binding for this site
Session Any Set Cookie
Session Binding Mechanism Cookie-Based
Related Link [Sessions](#)

URL Parameters to Ignore
A separate response is cached for each unique request URL. If request URLs are identical except for a parameter value, and they yield identical responses, you can instruct the cache to ignore the parameter value and cache only one copy. Specify site-specific parameters to ignore here.
Site-Specific
Separate parameters using commas or blanks
Global URL Parameters to Ignore None

OK

Auskommentieren von Zeile in \$ORACLE_HOME/Apache/Apache/conf/ssl.conf

```
# SetEnvIf User-Agent ".MSIE.*" nokeepalive ssl-unclean-shutdown
```

Erhöhen des SSL Session Cache in ssl.conf von 300 auf 600:

```
SSLSessionCacheTimeout 600
```

Aktivieren der Wallet in ssl.conf:

```
SSLWallet file:/etc/ORACLE/WALLETS/oracle
```

Restart der Prozesse:

```
super oracle  
. GRID.env  
opmnctl stopall && opmnctl startall
```

13 Grid Control Patches

Folgende Interim Patches sollen installiert werden:

Patch 4645135: CROSS PLATFORM SUPPORT - PLATFORM DROPDOWN LISTS LINUX ONLY

Patch 4645135 : applied on Fri May 12 11:24:09 MEST 2006
Created on 2 Mar 2006, 16:19:11 hrs US/Pacific
Bugs fixed:
4645135

Patch 4206528: CLEAR NOTIFICATIONS SENT AFTER BLACKOUT PERIOD ENDED

Patch 4206528 : applied on Thu May 04 15:07:35 MEST 2006
Created on 26 Apr 2006, 09:11:34 hrs PST8PDT
Bugs fixed:
4206528

Patch 4889538: GRID CONTROL : SELECTING TABLESPACE LINK IN ADMINISTRATION PAGE <HANGS?>

Patch 4889538 : applied on Thu May 04 15:06:49 MEST 2006
Created on 23 Apr 2006, 23:12:57 hrs PST8PDT
Bugs fixed:
4889538

Patch 5055727: METRICS FOR RAC ARE SHOWING UP TWICE AFTER THRESHOLD CHANGE VIA TEMPLATE

Patch 5055727 : applied on Sun Apr 30 12:24:05 MEST 2006
Created on 17 Apr 2006, 20:58:18 hrs PST8PDT
Bugs fixed:
5055727

Patch 4583242: RESPONSE METRIC NOT REGISTERED FOR THE 'CSA COLLECTOR' TARGET AFTER INSTALL

Patch 4583242 : applied on Wed Mar 22 10:47:49 MET 2006
Created on 9 Jan 2006, 04:04:34 hrs PST8PDT
Bugs fixed:
4583242

Folgende Interim-Patches werden automatisch bei der Grid Control 10.2.0.1 Installation installiert.

Patch 4620348 : applied on Thu Mar 16 12:44:10 MET 2006
Created on 19 Sep 2005, 16:36:10 hrs
Bugs fixed:
4620348

Patch 4547445 : applied on Thu Mar 16 12:43:54 MET 2006
Created on 22 Sep 2005, 10:00:46 hrs US/Pacific
Bugs fixed:

4547445

Patch 4488715 : applied on Thu Mar 16 12:43:29 MET 2006
Created on 21 Sep 2005, 14:34:05 hrs US/Pacific
Bugs fixed:
4488715

Patch 4141076 : applied on Thu Mar 16 12:41:46 MET 2006
Created on 28 Sep 2005, 14:37:41 hrs US/Pacific
Bugs fixed:
4141076

Patch 4067264 : applied on Thu Mar 16 12:41:22 MET 2006
Created on 22 Sep 2005, 10:11:43 hrs US/Pacific
Bugs fixed:
4067264

Patch 5637147 : applied on Tue Jul 10 11:12:00 MEST 2007
Created on 29 Jun 2007, 13:24:39 hrs PST8PDT
Bugs fixed:
5637147

Hier folgt ein Beispiel einer OPatch installation:

```
oracle@oemhost1:/oracle/install/oem_patches> unzip p4583242_10201_GENERIC.zip
Archive:  p4583242_10201_GENERIC.zip
  creating: 4583242/
  creating: 4583242/files/
  creating: 4583242/files/sysman/
  creating: 4583242/files/sysman/jlib/
  creating: 4583242/files/sysman/jlib/emCORE.jar/
  creating: 4583242/files/sysman/jlib/emCORE.jar/oracle/
  creating: 4583242/files/sysman/jlib/emCORE.jar/oracle/sysman/
  creating: 4583242/files/sysman/jlib/emCORE.jar/oracle/sysman/eml/
  creating: 4583242/files/sysman/jlib/emCORE.jar/oracle/sysman/eml/rsc/
  creating: 4583242/files/sysman/jlib/emCORE.jar/oracle/sysman/eml/rsc/gen/
  inflating: 4583242/files/sysman/jlib/emCORE.jar/oracle/sysman/eml/rsc/gen/oracle_csa_collector
Msg.class
  inflating: 4583242/files/sysman/jlib/emCORE.jar/oracle/sysman/eml/rsc/gen/oracle_csa_collector
MsgID.class
  creating: 4583242/etc/
  creating: 4583242/etc/config/
  inflating: 4583242/etc/config/inventory
  inflating: 4583242/etc/config/actions
  creating: 4583242/etc/xml/
  inflating: 4583242/etc/xml/GenericActions.xml
  inflating: 4583242/etc/xml/ShiphomeDirectoryStructure.xml
  inflating: 4583242/README.txt
oracle@oemhost1:/oracle/install/oem_patches> ls -latr
total 12
drwxr-xr-x  4 oracle dba   128 2006-01-09 13:04 4583242
-rw-r--r--  1 oracle dba  8693 2006-03-22 10:44 p4583242_10201_GENERIC.zip
drwxr-xr-x  8 oracle dba   216 2006-03-22 10:46 ..
drwxr-xr-x  3 oracle dba   120 2006-03-22 10:46 .
oracle@oemhost1:/oracle/install/oem_patches> cd 4583242/
oracle@oemhost1:/oracle/install/oem_patches/4583242> ls -altr
```

```
total 8
-rw-r--r--  1 oracle dba 4758 2006-01-09 13:04 README.txt
drwxr-xr-x  3 oracle dba   72 2006-01-09 13:04 files
drwxr-xr-x  4 oracle dba   96 2006-01-09 13:04 etc
drwxr-xr-x  4 oracle dba  128 2006-01-09 13:04 .
drwxr-xr-x  3 oracle dba  120 2006-03-22 10:46 ..
oracle@oemhost1:/oracle/install/oem_patches/4583242> /oracle/oms10g/OPatch/patch
apply
Invoking OPatch 10.2.0.1.0

Oracle interim Patch Installer version 10.2.0.1.0
Copyright (c) 2005, Oracle Corporation.  All rights reserved..

Oracle Home      : /oracle/oms10g
Central Inventory : /oracle/oraInventory
   from           : /oracle/oms10g/oraInst.loc
OPatch version   : 10.2.0.1.0
OUI version      : 10.2.0.1.0
OUI location     : /oracle/oms10g/oui
Log file location : /oracle/oms10g/cfgtoollogs/patch/patch-2006_Mar_22_10-46-56-
MET_Wed.log

ApplySession applying interim patch '4583242' to OH '/oracle/oms10g'

OPatch detected non-cluster Oracle Home from the inventory and will patch the local
system only.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local
system.
(Oracle Home = '/oracle/oms10g')

Is the local system ready for patching?

Do you want to proceed? [y|n]
y
User Responded with: Y
Backing up files and inventory (not for auto-rollback) for the Oracle Home
Backing up files affected by the patch '4583242' for restore. This might take a
while...
Backing up files affected by the patch '4583242' for rollback. This might take a
while...

Patching component oracle.sysman.common, 10.2.0.1.0...
Updating jar file "/oracle/oms10g/sysman/jlib/emCORE.jar" with
"/sysman/jlib/emCORE.jar/oracle/sysman/eml/rsc/gen/oracle_csa_collectorMsg.class"
Updating jar file "/oracle/oms10g/sysman/jlib/emCORE.jar" with
"/sysman/jlib/emCORE.jar/oracle/sysman/eml/rsc/gen/oracle_csa_collectorMsgID.class"
ApplySession adding interim patch '4583242' to inventory

The local system has been patched and can be restarted.

OPatch succeeded.
```

14 Agent Installation

```
cd $OMS_HOME/sysman/agent_download
mkdir 10.1.0.2.0
Download des Oracle Agents für die gewünschten Plattformen
cpio -idmv < ia64hpunix_Grid_Control_agent_download_10_1_0_2_1.cpio
cd 10.1.0.2.0/
```

Anpassen von agentDownload.ia64hpunix:

```
OMSHost=oemhost1.intra
httpPort=4889
AgentDownloadURL=http://${OMSHost}:${httpPort}/agent_download/10.1.0.2.0
WGET="wget --dot-style=mega --verbose --tries=5"
```

```
cp ia64hpunix/response/agent.rsp agent_download.rsp
```

```
vi agent_download.rsp → HP/UX
```

```
#-----
#Name      : s_OMSHost
#Datatype  : String
#Description: Fully-qualified hostname where the OMS resides
#Component : oracle.sysman.top.agent
#-----
s_OMSHost="oemhost1.intra"
```

```
#-----
#Name      : s_OMSPort
#Datatype  : String
#Description: Port number used to communicate with the OMS in non-secure mode
#Component : oracle.sysman.top.agent
#-----
s_OMSPort="4889"
```

```
cp /linux_x64/response/additional_agent.rsp agent_download.rsp
```

```
vi agent_download.rsp → Linux
```

```
#-----
#Name      : UNIX_GROUP_NAME
#Datatype  : String
#Description: Unix group to be set for the inventory directory. Valid only in Unix
platforms.
#Example: UNIX_GROUP_NAME = "install"
#-----
UNIX_GROUP_NAME=dba
```

```
#-----
#Name      : BaseDir
#Datatype  : String
#Description: Complete path of the Oracle Home.
#Example: BASEDIR = "C:\OHOME1"
#-----
BASEDIR=/oracle/agent10g/10.2.0
```

```
#-----
#Name      : sl_OMSConnectInfo
#Datatype  : StringList
#Description: Information needed to connect to the OMS
#Component : oracle.sysman.top.agent
#Example    : The value should be of the form {"HostName","Port"}
#-----
sl_OMSConnectInfo="oemhost1.intra","4889"
```

Wget ist heruntergeladen und kompiliert und liegt unter /tmp/agent. Jar liegt unter /opt/java1.4/bin.

```
export ORACLE_HOME=/oracle/agent10g/10.1.0
export ORACLE_HOME_NAME=Agent10_1
export PATH=$ORACLE_HOME/bin:$PATH:/oracle/agent10g/install:/opt/java1.4/bin
export TZ=MET-1METDST

export PATH=$PATH:/tmp/agent:/opt/java1.4/bin
export ORACLE_HOME=/oracle/agent10g

chmod u+x agentDownload.ia64hpunix

/tmp/agent/wget
http://oemhost1.intra:4889/agent_download/10.1.0.2.0/ia64hpunix/agentDownload.ia64hpunix

./agentDownload.ia64hpunix -i /oracle/agent10g/oraInst.loc -o
/oracle/agent10g/10.1.0 -x
+ getopts dhi:os:tx arg
+ GetPlatform
Platform: ia64hpunix
+ + dirname /oracle/agent10g/10.1.0
OracleBaseDir=/oracle/agent10g
+ [ ia64hpunix = hpux -o ia64hpunix = decunix ]
+ reqdVars=$ORACLE_HOME
+ CheckVars
+ + dirname /oracle/agent10g/10.1.0
OracleBaseDir=/oracle/agent10g
+ + echo /oracle/agent10g
+ cut -b1
FirstPathChar=/
+ [ ! / = / ]
+ [ -d /oracle/agent10g/10.1.0 ]
+ Oracle_Home=/oracle/agent10g/10.1.0
+ Oracle_Home_Name=Agent10_1
+ [ -z ]
+ InstallerLocalStage=/oracle/agent10g/agentDownload410Oui
+ [ ! -d /oracle/agent10g/10.1.0 ]
+ echo Creating /oracle/agent10g/10.1.0 ...
Creating /oracle/agent10g/10.1.0 ...
+ ErrMsg=Can't create directory: /oracle/agent10g/10.1.0
+ mkdir /oracle/agent10g/10.1.0
+ ErrHandler
+ [ ! -d /oracle/agent10g/agentDownload410Oui ]
+ echo Creating /oracle/agent10g/agentDownload410Oui ...
Creating /oracle/agent10g/agentDownload410Oui ...
+ ErrMsg=Can't create directory: /oracle/agent10g/agentDownload410Oui
+ mkdir /oracle/agent10g/agentDownload410Oui
+ ErrHandler
+ + date +%m%d%y%H%M%S
LogFile=/oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Logging actions to
/oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
Logging actions to /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ touch /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Wed Mar 22 17:06:14 CET 2006
+ 1>> /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Platform: HP-UX dbhost1 B.11.23 U ia64 2138075862 unlimited-user license
+ 1>> /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log 1> /dev/null
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Installer location: /oracle/agent10g/agentDownload410Oui
Installer location: /oracle/agent10g/agentDownload410Oui
+ cd /oracle/agent10g/agentDownload410Oui
+ [ YES = YES ]
+ echo Downloading Oracle Installer ...
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
Downloading Oracle Installer ...
```

```
+ DownloadInstaller
--17:06:14--
http://oemhost1.intra:4889/agent_download/10.1.0.2.0/ia64hpunix/oui/oui_ia64hpunix.
jar
      => `oui_ia64hpunix.jar'
Resolving oemhost1.intra... 10.201.51.39
Connecting to oemhost1.intra|10.201.51.39|:4889... connected.
HTTP request sent, awaiting response... 200 OK
Length: 121,578,049 (116M) [application/java-archive]

100%[=====
=====>] 121,578,049      2.59M/s
ETA 00:00

17:06:51 (3.08 MB/s) - `oui_ia64hpunix.jar' saved [121578049/121578049]

+ ErrMsg=Can't find the jar utility. Add jar to your PATH and try again.
+ + whence jar
jarAvail=/opt/java1.4/bin/jar
+ ErrHandler
+ echo Verifying Installer jar ... \n
Verifying Installer jar ...

+ VerifyInstallerJar
+ [ YES = YES ]
+ echo Downloading Agent install response file ...
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
Downloading Agent install response file ...
+ DownloadResponseFile
--17:06:59--
http://oemhost1.intra:4889/agent_download/10.1.0.2.0/agent_download.rsp
      => `agent_download.rsp'
Resolving oemhost1.intra... 10.201.51.39
Connecting to oemhost1.intra|10.201.51.39|:4889... connected.
HTTP request sent, awaiting response... 200 OK
Length: 20,012 (20K) [text/plain]

100%[=====
=====>] 20,012      75.46K/s

17:06:59 (75.41 KB/s) - `agent_download.rsp' saved [20012/20012]

+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Unjarring Oracle Installer ...
Unjarring Oracle Installer ...
+ jar -xf /oracle/agent10g/agentDownload410Oui/oui_ia64hpunix.jar
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Adding execute permissions to runInstaller ...
Adding execute permissions to runInstaller ...
+ chmod 0754 /oracle/agent10g/agentDownload410Oui/Disk1/install/runInstaller
+ chmod 0754 /oracle/agent10g/agentDownload410Oui/Disk1/install/unzip
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log
+ echo Launching Oracle Installer ...
Launching Oracle Installer ...
+ ExecAgentInstall
/oracle/agent10g/agentDownload410Oui/Disk1/install/runInstaller -ignoreSysPrereqs -
waitforcompletion -force -responseFile
/oracle/agent10g/agentDownload410Oui/agent_download.rsp -silent -invPtrLoc
/oracle/agent10g/oraInst.loc b_doDiscovery=TRUE b_startAgent=TRUE
FROM_LOCATION="http://oemhost1.intra:4889/agent_download/10.1.0.2.0/ia64hpunix/agen
t/stage/products.xml" ORACLE_HOME="/oracle/agent10g/10.1.0"
ORACLE_HOME_NAME="Agent10_1" JDKHome="/opt/java1.4"
Installing Agent to secured OMS
Starting Oracle Universal Installer...
No pre-requisite checks found in oraparam.ini, no system pre-requisite checks will
be executed.

>>> Ignoring required pre-requisite failures. Continuing...
```

Preparing to launch Oracle Universal Installer from /tmp/OraInstall2006-03-22_05-07-26PM. Please wait ...Oracle Universal Installer, Version 10.1.0.2.0 Production Copyright (C) 1999, 2004, Oracle. All rights reserved.

Warning:*** Alert: You have specified a non-empty directory to install this product. It is recommended to specify either an empty or a non-existent directory. You may, however, choose to ignore this message if the directory contains Operating System generated files or subdirectories like lost+found.
Do you want to proceed with installation in this Oracle Home? ***

.....
Loading Product Information
.....100% Done.

Analyzing dependencies
.....100% Done.

Summary
Global Settings
 Source:
http://oemhost1.intra:4889/agent_download/10.1.0.2.0/ia64hpunix/agent/stage/product
s.xml
 Oracle Home: /oracle/agent10g/10.1.0 (Agent10_1)
 Installation Type: Complete
Product Languages
 English
Space Requirements
 /oracle/agent10g/ Required 1.15GB : Available 1.63GB
 /tmp/ Required 156MB (only as temporary space) : Available 650MB
New Installations (42 products)
 Additional Management Agent 10.1.0.2.0
 Oracle Help For Java 4.2.5.0.0a
 Enterprise Manager Agent 10.1.0.2.0
 Oracle RAC Required Support Files 10.1.0.2.0
 Oracle RAC Required Support Files-HAS 10.1.0.2.0
 Oracle Client Required Support Files 10.1.0.2.0
 Enterprise Manager Common Files 10.1.0.2.0
 Oracle One-Off Patch Installer 10.1.0.2.0
 Oracle Core Required Support Files 10.1.0.2.0
 Oracle JDBC Thin Driver for JDK 1.4 10.1.0.2.0
 JDBC Common Files 10.1.0.2.0
 JDBC/OCI Common Files 10.1.0.2.0
 JDBC/OCI Common Files for Instant Client 10.1.0.2.0
 Oracle JDBC Thin Driver for JDK 1.4 for Instant Client 10.1.0.2.0
 Secure Socket Layer 10.1.0.2.0
 Oracle Net Required Support Files 10.1.0.2.0
 Oracle Globalization Support 10.1.0.2.0
 Agent Required Support Files 10.1.0.2.0
 XML Parser for Java 10.1.0.2.0
 Perl Interpreter 5.6.1.0.2d
 Platform Required Support Files 10.1.0.2.0
 PL/SQL Required Support Files 10.1.0.2.0
 Precompiler Required Support Files 10.1.0.2.0
 RDBMS Required Support Files 10.1.0.2.0
 Documentation Required Support Files 10.1.0.2.0
 LDAP Required Support Files 10.1.0.2.0
 SSL Required Support Files 10.1.0.2.0
 SSL Required Support Files for InstantClient 10.1.0.2.0
 XDK Required Support Files 10.1.0.2.0
 Enterprise Manager Documentation 10.1.0.2.0
 Installation Common Files 10.1.0.2.0
 Oracle10g Real Application Clusters Common Files 10.1.0.2.0
 Oracle Database 10G 32 bit 10.1.0.2.0
 Oracle Required Support Files 32 bit 10.1.0.2.0
 Authentication and Encryption 32-bit 10.1.0.2.0
 Oracle Ice Browser 5.2.3.3.0

Oracle Extended Windowing Toolkit 3.4.28.0.0
Oracle JFC Extended Windowing Toolkit 4.2.18.0.0
Bali Share 1.1.18.0.0
Enterprise Manager Agent for iAS 10.1.0.2.0
Installer SDK Component 10.1.0.2.0
Java Development Kit 1.4.2.0.0

Copying files in progress (Wed Mar 22 18:07:53 CET 2006)

```
..... 22% Done.  
..... 45% Done.  
..... 67% Done.  
..... 90% Done.  
Copy successful
```

Linking in progress (Wed Mar 22 18:13:31 CET 2006)

```
. 91% Done.  
Link successful
```

Setup in progress (Wed Mar 22 18:15:18 CET 2006)

```
..... 96% Done.  
Setup successful
```

End of install phases.(Wed Mar 22 18:15:22 CET 2006)

Starting to execute configuration assistants

Launched configuration assistant 'Agent Configuration Assistant'

Tool type is: Optional.

The command being spawned is: '/oracle/agent10g/10.1.0/jdk/jre/bin/java -DORACLE_HOME=/oracle/agent10g/10.1.0 -classpath /oracle/agent10g/10.1.0/jdk/jre/lib/rt.jar:/oracle/agent10g/10.1.0/jlib/emConfigInstall.jar:/oracle/agent10g/10.1.0/sysman/jlib/emd_java.jar:/oracle/agent10g/10.1.0/sysman/jlib/emCORE.jar:/oracle/agent10g/10.1.0/jlib/ojmisc.jar:/oracle/agent10g/10.1.0/jlib/instanceconfig.jar:/oracle/agent10g/10.1.0/jlib/srvn.jar:/oracle/agent10g/10.1.0/jlib/emca.jar:/oracle/agent10g/10.1.0/j2ee/home/lib/http_client.jar:/oracle/agent10g/10.1.0/sysman/install/jlib/agentca.jar oracle.agent.AgentCA /orahome /oracle/agent10g/10.1.0 /nodelist NO_VALUE /hostname dbhost1.intra /chaininstall false /omsonly false /iasinstance NO_VALUE /startagent true /dodiscovery true /crshome NO_VALUE /agentport 1830 /pwdencrypted false /seedinstall false'
Configuration assistant "Agent Configuration Assistant" succeeded
Result code for launching of configuration assistant is: 0

Launched configuration assistant 'Agent Secure Mode'

Tool type is: Optional.

The command being spawned is: '/oracle/agent10g/10.1.0/jdk/jre/bin/java -classpath /oracle/agent10g/10.1.0/jdk/jre/lib/rt.jar:/oracle/agent10g/10.1.0/jlib/emConfigInstall.jar:/oracle/agent10g/10.1.0/sysman/jlib/emd_java.jar:/oracle/agent10g/10.1.0/sysman/jlib/emCORE.jar:/oracle/agent10g/10.1.0/jlib/ojmisc.jar:/oracle/agent10g/10.1.0/jlib/instanceconfig.jar:/oracle/agent10g/10.1.0/jlib/srvn.jar:/oracle/agent10g/10.1.0/jlib/emca.jar:/oracle/agent10g/10.1.0/j2ee/home/lib/http_client.jar:/oracle/agent10g/10.1.0/sysman/install/jlib/agentca.jar oracle.agent.SecureAgent /orahome /oracle/agent10g/10.1.0 /nodelist NO_VALUE /agentpwd *Protected value, not to be logged* /pwdencrypted true'

Configuration assistant "Agent Secure Mode" succeeded

Result code for launching of configuration assistant is: 0

The installation of Additional Management Agent was successful.

Please check /oracle/agent10g/oraInventory/logs/silentInstall2006-03-22_05-07-26PM.log for more details.

```
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log  
+ echo Finished -- deleting oui_ia64hpunix.jar and installer response file ...  
Finished -- deleting oui_ia64hpunix.jar and installer response file ...  
+ tee -a /oracle/agent10g/10.1.0/agentDownload.ia64hpunix032206170614.log  
+ echo /oracle/agent10g/10.1.0/root.sh needs to be executed by root to complete  
this installation.  
/oracle/agent10g/10.1.0/root.sh needs to be executed by root to complete this  
installation.  
+ Cleanup
```

```
+ CheckAgentStatus
Agent is running
$ emctl status agent
Oracle Enterprise Manager 10g Release 10.1.0.2.0.
Copyright (c) 1996, 2004 Oracle Corporation. All rights reserved.
```

```
-----
Agent Version      : 10.1.0.2.0
OMS Version        : 10.2.0.1.0
Protocol Version   : 10.1.0.2.0
Agent Home         : /oracle/agent10g/10.1.0
Agent binaries     : /oracle/agent10g/10.1.0
Agent Process ID   : 13971
Parent Process ID  : 13970
Agent URL          : https://dbhost1.intra:1830/emd/main/
Started at         : 2006-03-22 17:16:21
Started by user    : oradagnt
Last Reload        : 2006-03-22 17:16:21
Last successful upload                : 2006-03-22 17:28:36
Total Megabytes of XML files uploaded so far :      8.96
Number of XML files pending upload      :          0
Size of XML files pending upload(MB)    :          0.00
Available disk space on upload filesystem :      24.80%
-----
```

Agent is Running and Ready

Hinzufügen der Email Settings in die emd.properties:

```
# The email address for out-of-band notifications
#
emd_email_address=martin.decker@ora-solutions.net
emd_email_gateway=localhost

#
# The return email address for out-of-band notifications
#
emd_from_email_address=martin.decker@ora-solutions.net
```

The patchset 10.1.0.3 is available on Metalink for HP-UX Itanium for the Grid Management Agent..
The patch number is 3822442.

Cloning wird nicht unterstützt bei RAC.

15 Agent Installation auf RAC:

Installation RAC Agents für Referenz:

```
SSH Authorized_keys einrichten  
/etc/shadow Eintrag setzen (HP)
```

```
Symmlink von /usr/bin/ssh auf /usr/local/bin/ssh (HP)  
Symmlink von /usr/bin/scp auf /usr/local/bin/scp (HP)
```

```
chmod o+w /etc/oratab
```

Aufgrund von Platzmangel in /oracle/agent10g muss die InstallerStage gesetzt werden:

```
mkdir /var/adm/crash/oracle/oem
```

DownloadFiles="YES" in Zeile 324 von agentDownload Script.
Editieren von agentDownload Script:

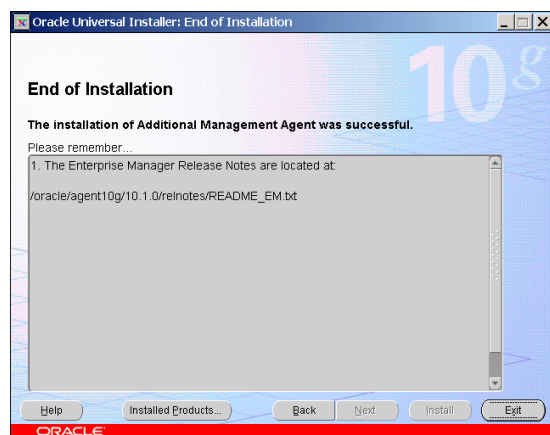
Hinzufügen zu runInstaller Aufruf:
-logLevel trace -J-DTRACING.ENABLED=true -DTRACING.LEVEL=2"

```
./agentDownload.ia64hpunix -x -o /oracle/agent10g/10.1.0 -i  
/oracle/agent10g/oraInst.loc -s /var/adm/crash/oracle/oem
```

Interaktiv:

```
/var/adm/crash/oracle/oem/Disk1/install/runInstaller -ignoreSysPrereqs -  
waitforcompletion -force -responseFile /var/adm/crash/oracle/oem/agent_download.rsp  
-invPtrLoc /oracle/agent10g/oraInst.loc b_doDiscovery=TRUE b_startAgent=TRUE  
FROM_LOCATION="http://oemhost1.intra:4889/agent_download/10.1.0.2.0/ia64hpunix/agen  
t/stage/products.xml" ORACLE_HOME="/oracle/agent10g/10.1.0"  
ORACLE_HOME_NAME="Agent10_1" JDKHome="/opt/java1.4"
```

Auswahl: Cluster Installation und Selektieren aller Nodes.



16 Agent Patch 10.1.0.3

Download von Patch 3731593

```
cp  
/tmp/3731593/Disk1/stage/Queries/RunningProcessQuery/1.5.1/1/RunningProcessesQuery.  
jar  
/oracle/agent10g/10.1.0/inventory/Queries21/RunningProcessQuery/1.5.1/RunningProces  
sesQuery.jar
```

```
$ORACLE_HOME/perl/bin/perl emdpatch.pl 3731593 -invPtrLoc  
/oracle/agent10g/oraInst.loc -oh /oracle/agent10g/10.1.0
```

17 Agent Upgrade von 10.1.0.3 auf 10.2.0.1

Unter der URL http://download.oracle.com/otn/hp/oem/HPI_GridControl_agent_download_10_2_0_1_0.zip kann der Mass Deployment Agent für HP-UX Itanium in der Version 10.2.0.1 heruntergeladen werden.

Unzip der Datei auf dem OMS Host unter:
/oracle/oms10g/sysman/agent_download/10.2.0.1.0

```
cd /oracle/oms10g/sysman/agent_download/10.2.0.1.0
unzip HPI_GridControl_agent_download_10_2_0_1_0.zip
```

Anpassen von agent_download.rsp

```
s_OMSHost="oemhost1.intra"
s_OMSPort="4889"
```

Anpassen von /oracle/oms10g/sysman/agent_download/10.2.0.1.0/hpi/agentDownload.hpi, Zeile 629:

```
ORACLE_HOME=$baseDir/10.2.0
```

Stoppen des Agents:

```
emctl upload agent
emctl stop agent
```

Aufgrund von geringem Plattenplatz auf /oracle/agent10g muss die 10.1 Agent Installation temporär für die Installation auf einen anderen Pfad verschoben und mit einem Symlink versehen werden.

```
mv /oracle/agent10g/10.1.0 /var/adm/crash/oracle/agent10g/10.1.0
ln -s /var/adm/crash/oracle/agent10g/10.1.0 /oracle/agent10g/10.1.0
```

```
cd /var/adm/crash/agent10g/
mkdir install
cp /oracle/agent10g/install/* install/
```

```
$ cat path.env
export ORACLE_HOME=/oracle/agent10g/10.2.0
export ORACLE_HOME_NAME=Agent10_2
export AGENT_INSTALL_PASSWORD=xxxxxxx
export TZ=MET-1METDST
export JDKHome=/opt/java1.4
export
PATH=$ORACLE_HOME/perl/bin:vi/oracle/agent10g/install:/opt/java1.4/bin:$PATH:$ORACLE_HOME/bin:/
var/adm/crash/oracle/agent10g/install
```

```
vi ~/.profile
export ORACLE_HOME=/oracle/agent10g/10.2.0
export ORACLE_HOME_NAME=Agent10_2
```

./wget http://oemhost1.intra:4889/agent_download/10.2.0.1.0/hpi/agentDownload.hpi

./agentDownload.hpi -u -o /oracle/agent10g/10.1.0 -i /oracle/agent10g/oraInst.loc -b /oracle/agent10g/10.2.0 -t

```
/var/adm/crash/oracle/agent10g/install/agentDownload10.2.0.1.0Oui/Disk1/runInstaller -ignoreSysPrereqs -
waitforcompletion -force -responseFile
/var/adm/crash/oracle/agent10g/install/agentDownload10.2.0.1.0Oui/agent_download.rsp -invPtrLoc
/oracle/agent10g/oraInst.loc b_doDiscovery=TRUE b_startAgent=FALSE -sourceLoc
http://oemhost1.intra:4889/agent_download/10.2.0.1.0/hpi/agent/stage/products.xml
```

```
FROM_LOCATION=http://oemhost1.intra:4889/agent_download/10.2.0.1.0/hpi/agent/stage/products.xml -  
baseDir /oracle/agent10g/10.2.0 CLUSTER_NODES={ } s_oldAgentHome="/oracle/agent10g/10.1.0"  
b_upgrade=TRUE ORACLE_HOME_NAME="Agent10_2" ORACLE_HOME="/oracle/agent10g/10.2.0"
```



Anpassen von root.sh, Zeile 384:

```
echo -e  
ersetzen durch:  
echo
```

HP: root.sh ausführen.

/usr/sbin in Pfad aufnehmen.

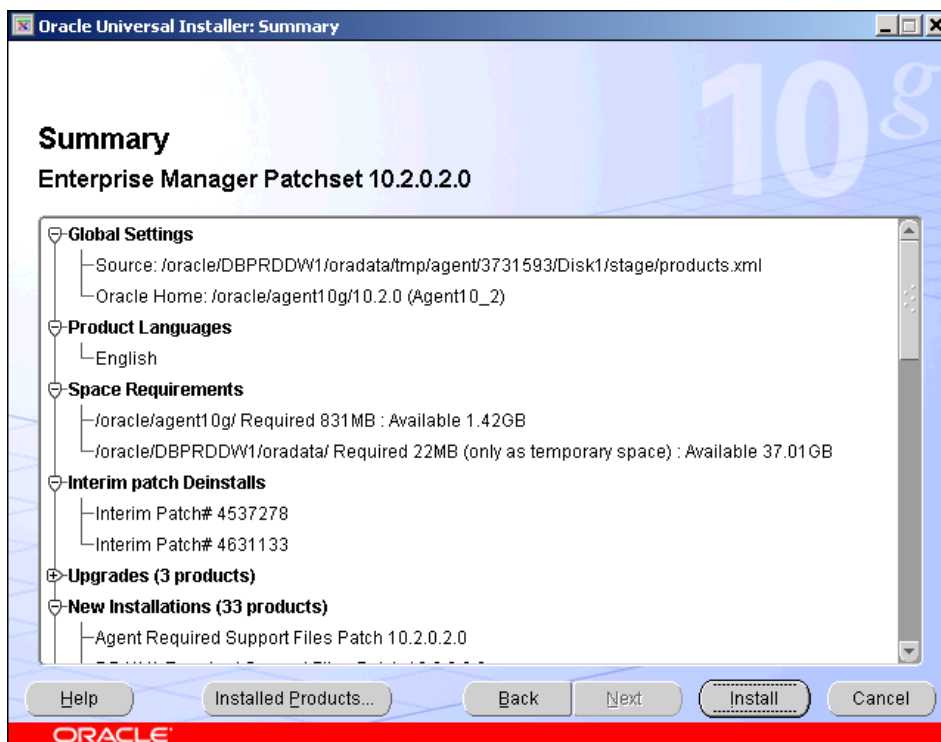
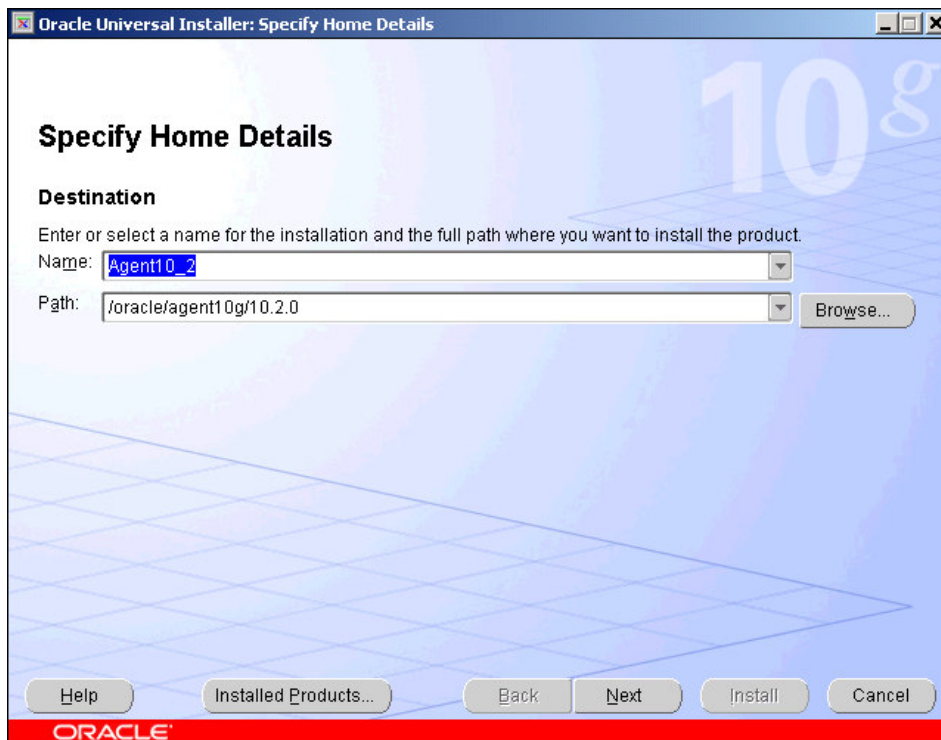
18 Agent Upgrade von 10.2.0.1 auf 10.2.0.2

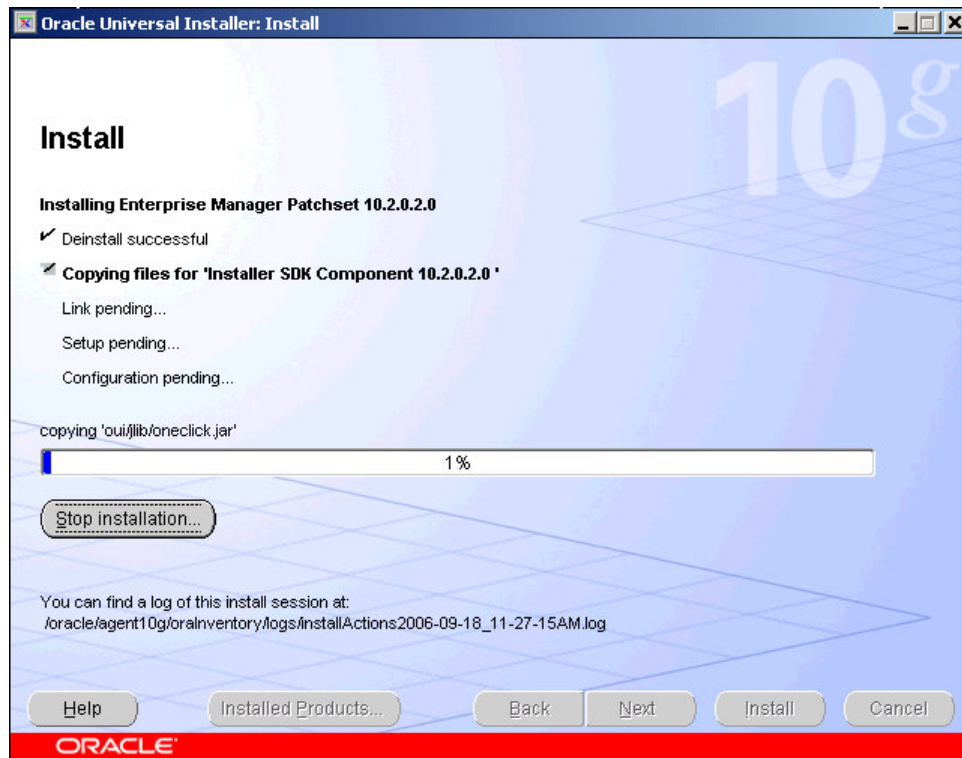
Download von p3731593_10202_HPUX-IA64.zip

unzip

cd Disk1

\$./runInstaller -ignoreSysPreReqs -invPtrLoc /oracle/agent10g/oraInst.loc





Ausführen von root.sh

19 Agent Installation von 10.2.0.1 auf PA-RISC

Anhängen an .profile:

```
export NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P1
export ORACLE_HOME=/oracle/agent10g/10.2.0
export ORACLE_HOME_NAME=Agent10_2
export PATH=$PATH:$ORACLE_HOME/bin:/oracle/agent10g/install
```

Kopieren von Wget nach /oracle/agent10g/install

Anlegen von Staging-Directory mit ausreichend Plattenplatz:

```
wget http://oemhost1.intra:4889/agent\_download/10.2.0.1.0/hpunix/agentDownload.hpunix
chmod u+x agentDownload.hpunix
```

edit agentDownload.hpunix:

```
OMShost="oemhost1.intra"
# Default HTTP port for EM console
httpPort="4889"
ORACLE_HOME=$baseDir/10.2.0
```

```
./agentDownload.hpunix -b /oracle/agent10g -i /oracle/agent10g/oraInst.loc -s /tmp -x
```

```
/tmp/Disk1/runInstaller -ignoreSysPrereqs -waitforcompletion -force -responseFile /tmp/agent_download.rsp -
silent -invPtrLoc /oracle/agent10g/oraInst.loc b_doDiscovery=TRUE b_startAgent=FALSE -sourceLoc
http://oemhost1.intra:4889/agent_download/10.2.0.1.0/hpunix/agent/stage/products.xml
FROM_LOCATION=http://oemhost1.intra:4889/agent_download/10.2.0.1.0/hpunix/agent/stage/products.xml -
baseDir /oracle/agent10g CLUSTER_NODES={} ORACLE_HOME_NAME=Agent10_2
ORACLE_HOME=/oracle/agent10g/10.2.0
```

Root.sh

20 Agent Installation von 10.2.0.2 auf Solaris 10 x86_64

1. Download the Solaris_x64_GridControl_agent_download_10_2_0_2_0.zip file from OTN.
2. Copy the downloaded file to <OMS_HOME>/sysman/agent_download/10.2.0.2.0 directory.(create <OMS_HOME>/sysman/agent_download/10.2.0.2.0 directory, if it doesn't exist.)
3. cd <OMS_HOME>/sysman/agent_download/10.2.0.2.0
4. <OMS_HOME>/bin/unzip Solaris_x64_GridControl_agent_download_10_2_0_2_0.zip
5. If agent_download.rsp doesn't exist at <OMS_HOME>/sysman/agent_download/10.2.0.2.0 directory then:
 - a. mv agent_download.rsp.bak agent_download.rsp
 - b. edit agent_download.rsp and modify s_OMSHost="%s_hostname%" and s_OMSPort="%s_OMSPort%" with the correct OMSHost and OMSPort values.(However, even if you are specifying a secure Management Service, you must still enter the non-secure port number here)
eg. s_OMSHost="oemhost1.intra"
s_OMSPort="4889"
6. Edit <OMS_HOME>/sysman/agent_download/10.2.0.2.0/solaris_x64/agentDownload.solaris_x64 and modify OMShost=%s_OMSHost% and httpPort=%s_OMSPort% with the correct OMSHost and OMSPort.(However, even if you are specifying a secure Management Service, you must still enter the non-secure port number here)
For eg. OMShost=oemhost1.intra
httpPort=4889
7. Edit <OMS_HOME>/sysman/agent_download/10.2.0.2.0/solaris_x64/agentDownload.solaris_x64 for LP specific path:

instead of

ORACLE_HOME=\$baseDir/agent10g

put:

ORACLE_HOME=\$baseDir/10.2.0

insert exit before installcmd:

exit 999
\$InstallCmd 2> ErrLog.log

~/bash_profile
export ORACLE_HOME=/oracle/oem_agent/10.2.0
export ORACLE_HOME_NAME=Agent10_2
export PATH=\$ORACLE_HOME/bin:\$PATH:/oracle/oem_agent/install:/usr/sfw/bin
export NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P1

mkdir /oracle/oem_agent/install
cd /oracle/oem_agent/install
wget http://oemhost1.intra:4889/agent_download/10.2.0.2.0/solaris_x64/agentDownload.solaris_x64

chmod u+x agentDownload.solaris_x64

vi /oracle/oem_agent/oraInst.loc:

inventory_loc=/oracle/oem_agent/oraInventory
inst_group=oinstall

```
cd /oracle/oem_agent/install  
./agentDownload.solaris_x64 -b /oracle/oem_agent -i /oracle/oem_agent/oraInst.loc -x
```

```
vi do_install.sh
```

```
/oracle/oem_agent/install/agentDownload10.2.0.2.0Oui/Disk1/runInstaller -ignoreSysPrereqs -  
waitforcompletion -for  
ce -responseFile /oracle/oem_agent/install/agentDownload10.2.0.2.0Oui/agent_download.rsp -silent -invPtrLoc  
/oracl  
e/oem_agent/oraInst.loc b_doDiscovery=TRUE b_startAgent=TRUE -sourceLoc http://oemhost1.intra:4889  
/agent_download/10.2.0.2.0/solaris_x64/agent/stage/products.xml FROM_LOCATION=http://oemhost1.intra:  
4889/agent_download/10.2.0.2.0/solaris_x64/agent/stage/products.xml -baseDir /oracle/oem_agent  
CLUSTER_NODES={ }  
ORACLE_HOME=/oracle/oem_agent/10.2.0 ORACLE_HOME_NAME=Agent10_2
```

```
chmod u+x ./do_install.sh  
./do_install.sh
```

21 OMS-Upgrade auf 10.2.0.2

Backup von OMS_HOME, oraInventory, EMREP DB, EMREP OHOME, AGENT_HOME

Download 10.2.0.2

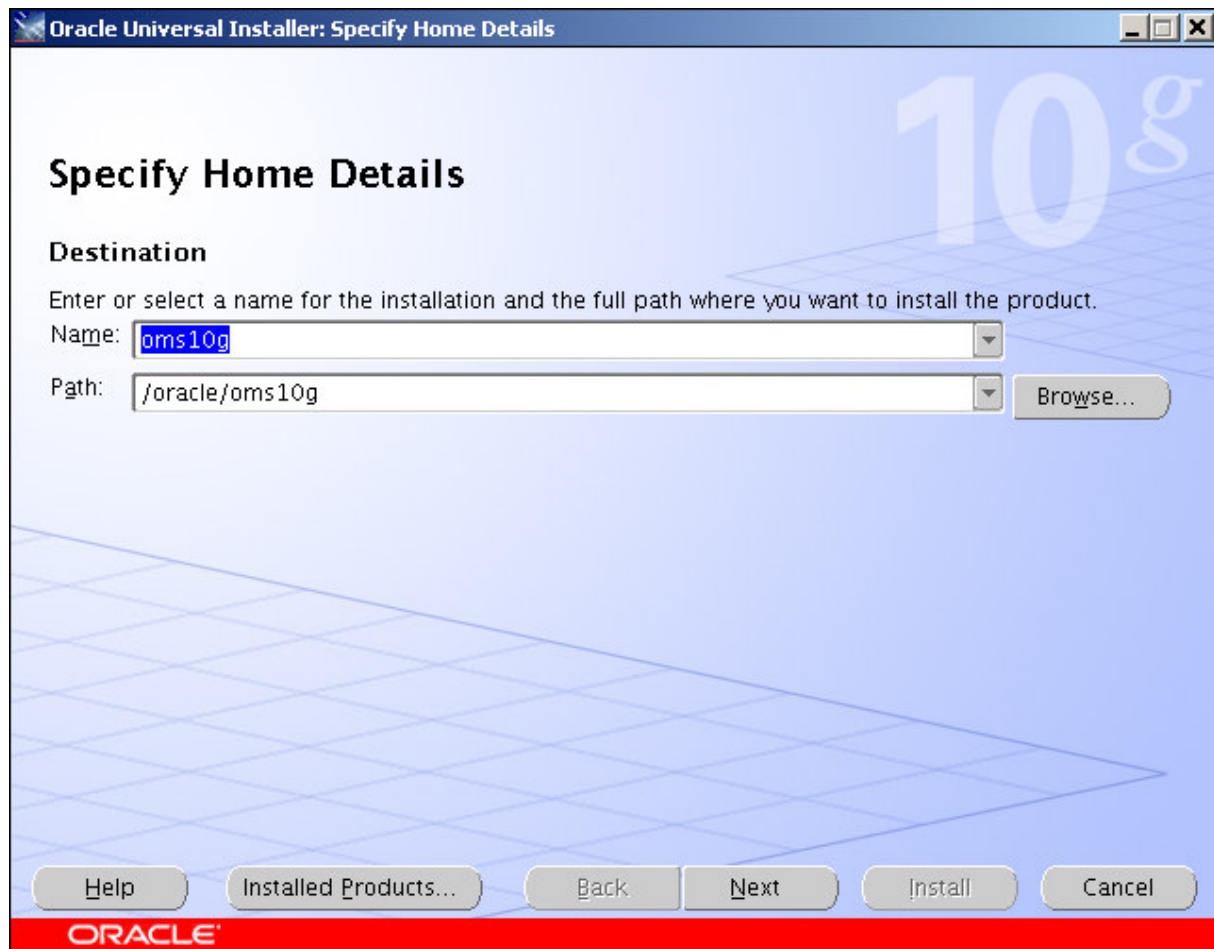
Stoppen von AGENT und OMS

EMREP und Listener müssen gestartet sein

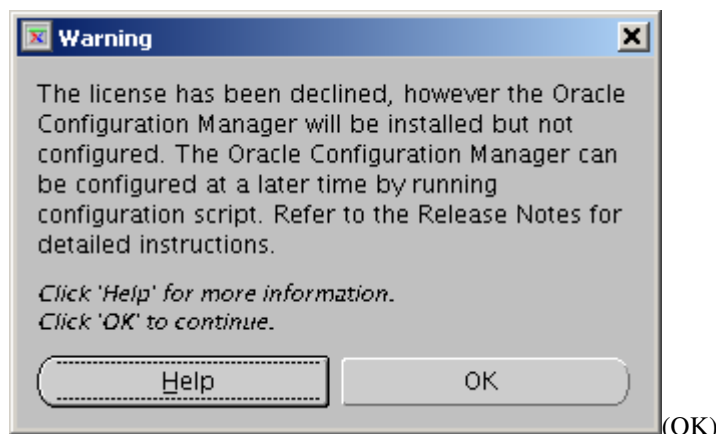
ssh Connection mit X-Forwarding

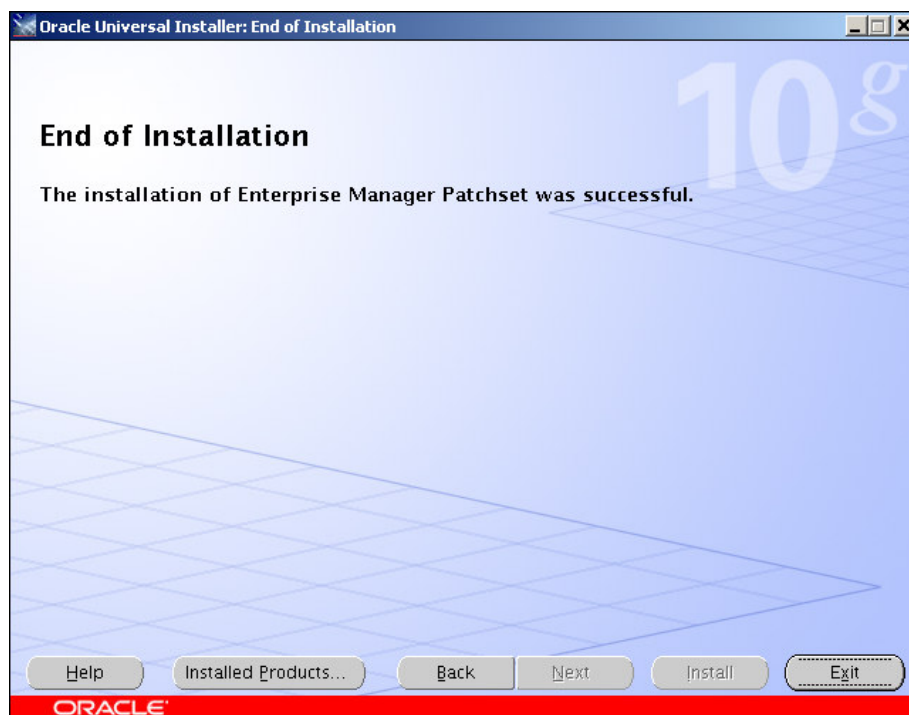
. GRID.env

./runInstaller



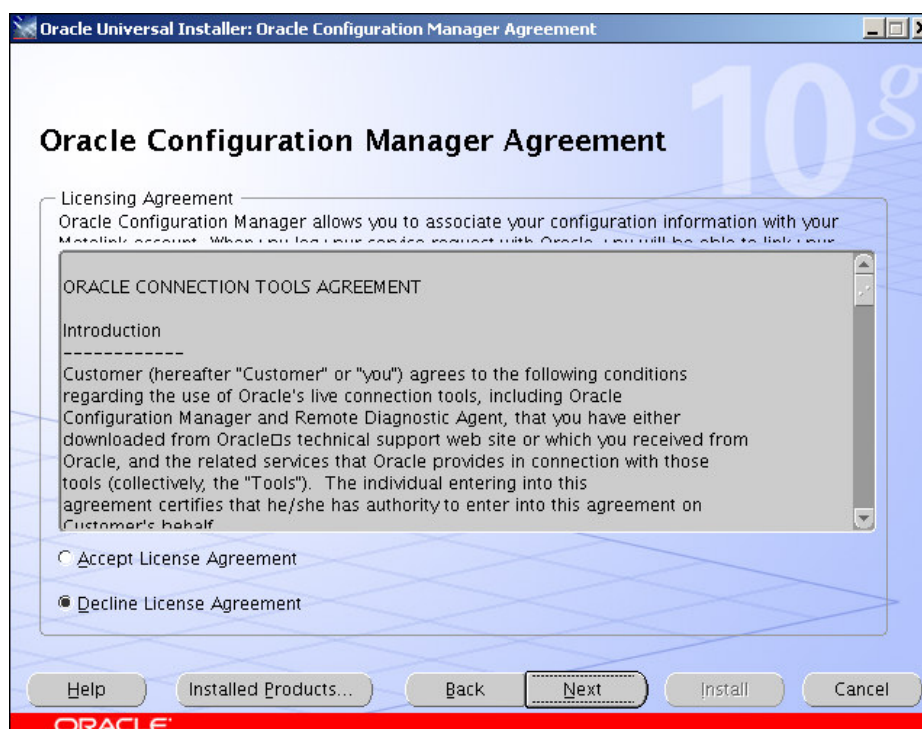
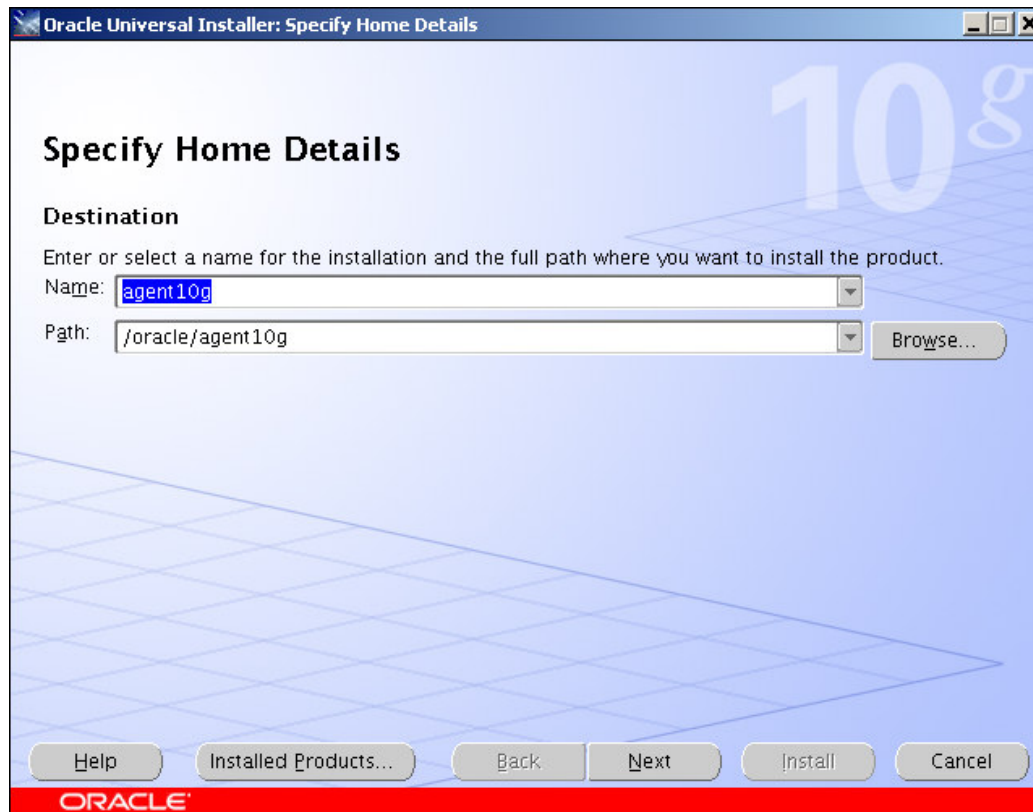
Eingeben des SYS Passworts.

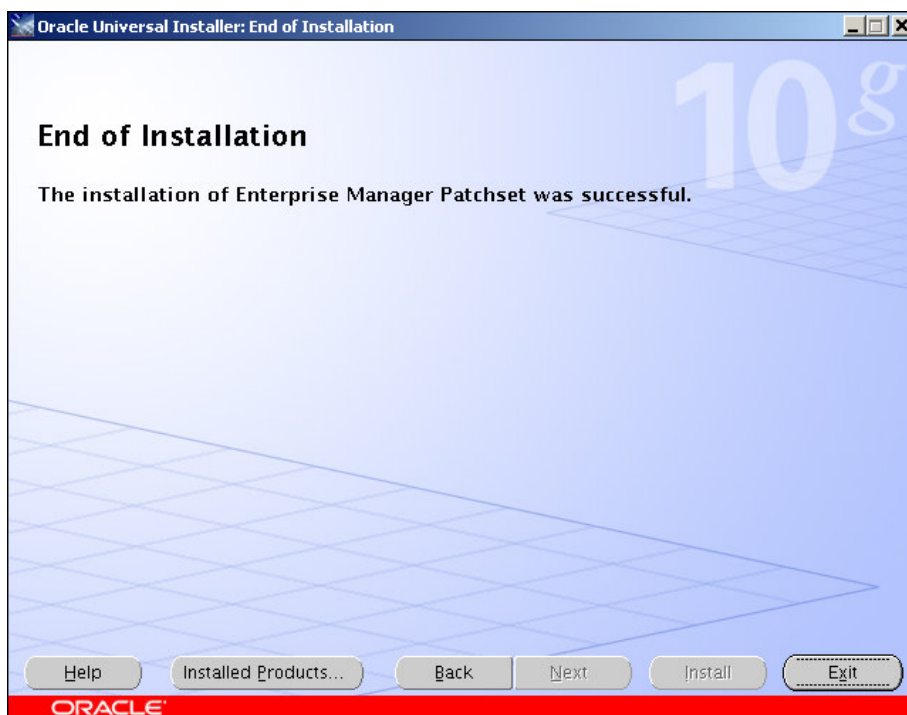
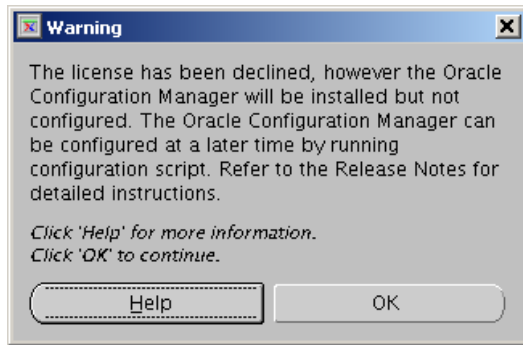




22 Agent-Upgrade auf 10.2.0.2 von OMS-Host

```
. AGENT.env  
emctl stop agent  
./runInstaller
```





23 Security:

```
opmnctl stopall  
emctl secure lock
```

```
oracle@oemhost1:~> emctl status emkey  
Oracle Enterprise Manager 10g Release 10.2.0.1.0  
Copyright (c) 1996, 2005 Oracle Corporation. All rights reserved.  
Please enter repository password:  
The Em Key is configured properly, but is not secure. Secure the Em Key by running  
"emctl config emkey -remove_from_repos".  
oracle@oemhost1:~> emctl config emkey -remove_from_repos  
Oracle Enterprise Manager 10g Release 10.2.0.1.0  
Copyright (c) 1996, 2005 Oracle Corporation. All rights reserved.  
Please enter repository password:  
The Em Key has been removed from the Management Repository.  
Make a backup copy of OH/sysman/config/emkey.ora file and store it on another  
machine.  
WARNING: Encrypted data in Enterprise Manager will become unusable if the emkey.ora  
file is lost or corrupted.
```

24 Diverse Konfigurationen

24.1 Console Login Timeout

```
emoms.properties:  
  
oracle.sysman.eml.maxInactiveTime=480
```

24.2 Multi-Inventory Support des Agents

```
Multi-Inventory Support:  
  
$AGENT_HOME/sysman/config/OUIinventories.add  
  
# # add another inventory  
inventory: /var/opt/oracle/oraInst.loc.92db  
inventory: /var/opt/oracle/oraInst.loc.10g_agent
```

24.3 Definieren von benutzerdefinierten Retention Zeiten

Die OEM Metriken werden in den verschiedenen Tabellen bzw. Partitionen gehalten:

- **MGMT_METRICS_RAW** stündliche Partitionen Vorhaltezeit: 1
Tag unverdichtet
- **MGMT_METRICS_1HOUR** stündliche Partitionen Vorhaltezeit: 7
Tag verdichtet auf Stundenwerte (min/avg/max)
- **MGMT_METRICS_1DAY** stündliche Partitionen Vorhaltezeit: 365
Tag verdichtet auf Tageswerte (min/avg/max)

Ab 10.2.0.3 können diese Werte glücklicherweise parametrisiert werden.

Dieses Feature ist erst ab 10.2.0.3 nutzbar. Die Dokumentation des Features ist leider in der Doku zu 10gR3 nicht mehr verfügbar. (siehe MetaLink [430830.1](#))

Modifying the Default Aggregation and Purging Policies

The Enterprise Manager default aggregation and purging policies were designed to provide the most available data for analysis while still providing the best performance and disk-space requirements for the repository. As a result, you should not modify these policies to improve performance or increase your available disk space.

Modifying these default policies can affect the performance of the repository and have adverse reactions on the scalability of your Enterprise Manager installation.

However, if you plan to extract or review the raw or aggregated data using data analysis tools other than Enterprise Manager, you may want to increase the amount of raw or aggregated data available in the repository. You can accomplish this by increasing the retention times for the raw or aggregated data.

To modify the default retention time for each level of management data in the repository, you must insert additional rows into the MGMT_PARAMETERS table in the repository database. [Table 8-3](#) shows the parameters you must insert into the MGMT_PARAMETERS table to modify the retention time for each of the raw data and aggregate data tables.

Table names that contain "_RT_" indicate tables used for Application Performance Monitoring response time data. In the Table Name column, replace datatype with one of the three response time data types: DOMAIN, IP, or URL.

Table 8-3 Parameters for Modifying Default Data Retention Times in the Management Repository

Table Name	Parameter in MGMT_PARAMETERS Table	Default Retention Value
MGMT_METRICS_RAW	mgmt_raw_keep_window	7 days
MGMT_METRICS_1HOUR	mgmt_hour_keep_window	31 days
MGMT_METRICS_1DAY	mgmt_day_keep_window	365 days
MGMT_RT_METRICS_RAW	mgmt_rt_keep_window	24 hours
MGMT_RT_datatype_1HOUR	mgmt_rt_hour_keep_window	7 days
MGMT_RT_datatype_1DAY	mgmt_rt_day_keep_window	31 days
MGMT_RT_datatype_DIST_1HOUR	mgmt_rt_dist_hour_keep_window	24 hours
MGMT_RT_datatype_DIST_1DAY	mgmt_rt_dist_day_keep_window	31 days

For example, to change the default retention time for the table MGMT_METRICS_RAW from seven days to 14 days:

1. Use SQL*Plus to connect to the repository database as the Management Repository user.

The default Management Repository user is `sysman`.

2. Enter the following SQL to insert the parameter and change the default value:
3.

```
INSERT INTO MGMT_PARAMETERS (PARAMETER_NAME, PARAMETER_VALUE)
VALUES ('mgmt_raw_keep_window','14');
```

4.

Similarly, to change from the default retention time for all of the MGMT_RT_datatype_1DAY tables from 31 days to 100 days:

1. Use SQL*Plus to connect to the repository database as the Management Repository user.

The default Management Repository user is `sysman`.

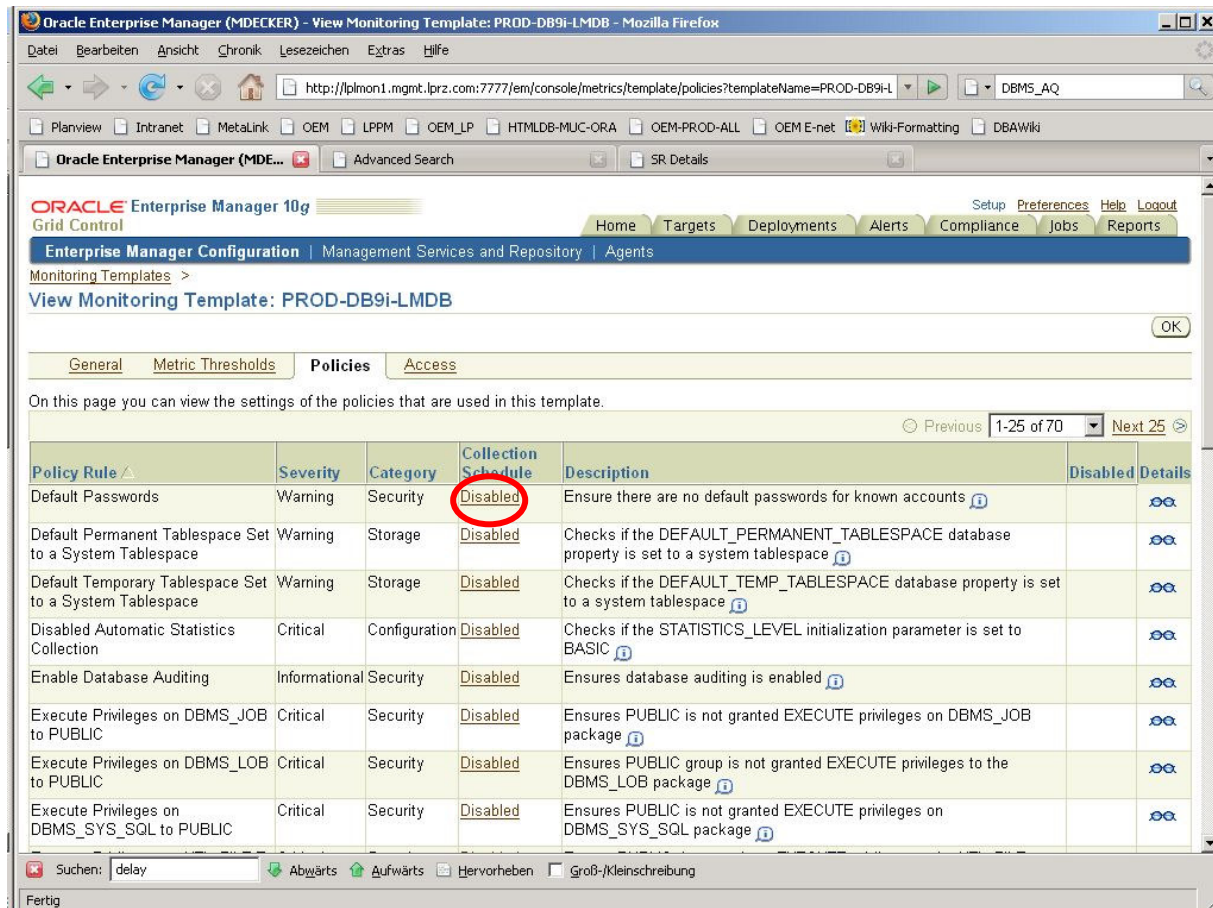
2. Enter the following SQL to insert the parameter and change the default value:
3.

```
INSERT INTO MGMT_PARAMETERS (PARAMETER_NAME, PARAMETER_VALUE)
VALUES ('mgmt_rt_day_keep_window', '100');
```

25 Reduzierung der Belastung der Hosts durch Oracle Enterprise Manager Agent

25.1 Deaktivieren von Policies

Über Monitoring-Templates kann der Collection Schedule der Policies von den verschiedenen Target-Typen deaktiviert werden:



Die Policies von allen Target Types und allen Targets können disabled werden.

25.2 Deaktivieren von nicht benötigten Metriken

Folgende Metriken können disabled werden:

25.2.1 Deaktivieren von Metriken für Target Type Host

Metric Name	Grund
Average Disk I/O Service Time (ms)	inkorrekt ermittelte Information
Average Disk I/O Wait Time (ms)	
Average Outstanding Disk I/O Requests	
Average Run Time (ms)	
Disk Blocks Transferred (per second)	
Disk Device Busy (%)	
Transfers (per second)	
File or Directory Attribute Not Found	nicht benötigt

File or Directory Permissions	
File or Directory Size (MB)	
File or Directory Size Change Rate (KB/minute)	
Log File Pattern Matched Content	nicht benötigt
Log File Pattern Matched Line Count	
Processes in Zombie State (%)	nicht benötigt

Weiters kann die Metric „host_storage“ deaktiviert werden. Hierzu ist MetaLink Note 560905.1

```
cd /oracle/agent10g/10.2.0/sysman/admin/default_collection
cp host.xml host.xml.lp_ohne_host_storage_disabled

ändern von:
<CollectionItem NAME = "host_storage" UPLOAD_ON_FETCH="TRUE" CONFIG="TRUE">
in:
<CollectionItem NAME = "host_storage" UPLOAD_ON_FETCH="TRUE" CONFIG="TRUE" DISABLED="TRUE">

emctl stop agent
emctl start agent
```

Weiters kann die Metric „DiskActivity“ deaktiviert werden.

```
cd /oracle/agent10g/10.2.0/sysman/emd/collection
ändern von:
<CollectionItem NAME="DiskActivity">
in:
<CollectionItem NAME="DiskActivity" DISABLED="TRUE">

emctl stop agent
emctl start agent
```

25.2.2 Deaktivieren von Metriken für Target Type Database Instance

Metric Name	Grund
Audited User	inkorrekt ermittelte Information
Audited User Host	
Audited User Session Count	

25.2.3 Deaktivieren von Metriken für Target Agent

Die Metric ProcessInfo des Target Typ Agent führt das Kommando „nmupm osLoad“ durch um einige Memory Parameter zu ermitteln. Das ist sehr teuer, deshalb wird dieser Aufruf deaktiviert:

Siehe SR# 7063659.992

/oracle/agent10g/10.2.0/sysman/admin/scripts/emdprocstats.pl:

```
# my $mem_output = `ENV{EMDROOT}/bin/nmupm osLoad`;
my $mem_output = "em_result=";
```

Dadurch verlieren wir nur unwichtige Informationen:

Agent Process Statistics

Page Refreshed Jul 17, 2008 3:19:57 PM CEST 

Name	Value
Process ID	28611
CPU Usage (%)	0.44
Virtual Memory Utilization (KB)	65868
Resident Memory Utilization (KB)	65760
Resident Memory Utilization (%)	
Number Files Open	33
Number Handles Open	
Number Threads Created	12
Agent Virtual Memory Utilization (KB)	55412
Agent Resident Memory Utilization (KB)	55396
Virtual Memory Utilization Growth (%)	

25.3 Erhöhen des Collection Intervals

25.3.1 Erhöhung Collection Interval für Target Type Database Instance

Metric Name	default interval	empfohlenes Interval
Broken Job Count	15 min	60 min
Failed Job Count		
Active Sessions Using CPU	1 min	5 min
Active Sessions Waiting: I/O		
Active Sessions Waiting: Other		
Average Instance CPU (%)		
Buffer busy waits (%)		
CPU Time Delta (sec)		
DB file scattered read (%)		
DB file sequential read (%)		
DB file single write (%)		
Direct path read (%)		
Direct path read (lob) (%)		
Direct path write (%)		
Direct path write (lob) (%)		
Enqueue - other (%)		
Enqueue: DML - contention (%)		
Enqueue: HW, Segment High Water Mark - contention (%)		
Enqueue: ST, Space Transaction - contention (%)		
Enqueue: TM, TX, Transaction - row lock contention (%)		
Enqueue: TX mode 4, Transaction - allocate ITL entry (%)		
Enqueue: UL: User-defined - contention (%)		
Free buffer waits (%)		
Latch free - other (%)		
Latch: cache buffer chains (%)		
Latch: library cache (%)		
Latch: redo copy (%)		
Latch: shared pool (%)		
Library cache load lock (%)		
Library cache lock (%)		
Library cache pin (%)		
Local write wait (%)		
Log buffer space (%)		
Log file switch (archiving needed) (%)		
Log file switch (checkpoint complete) (%)		
Log file switch completion (%)		
Log file sync (%)		

Log switch/archive (%) Pipe put (%) Row cache lock (%) SQL*Net break/reset to client (%) SQL*Net break/reset to dblink (%) SQL*Net message to client (%) SQL*Net message to dblink (%) SQL*Net more data from client (%) SQL*Net more data from dblink (%) SQL*Net more data to client (%) SQL*Net more data to dblink (%) Wait Time (%) Write complete waits (%)		
Deferred Transaction Count Deferred Transaction Error Count Suspended Session Count	5 min	15 min

25.3.2 Erhöhung Collection Interval für Target Type Host

25.3.2.1.1 Inventory

Die Metric „Inventory“, die für die OS + Oracle Packages/Hardware-Informationen zuständig ist, wird von täglich auf wöchentlich geändert:

host.xml:
vorher:

```
<CollectionItem NAME = "Inventory" UPLOAD_ON_FETCH = "TRUE" TIMEOUT = "3600"
PRELOAD_PROC
="MGMT_PROVISION.PRELOAD_CALLBACK">
  <Schedule OFFSET_TYPE="INCREMENTAL">
    <IntervalSchedule INTERVAL = "24" TIME_UNIT = "Hr"/>
```

nachher:

```
<CollectionItem NAME = "Inventory" UPLOAD_ON_FETCH = "TRUE" TIMEOUT = "3600"
PRELOAD_PROC
="MGMT_PROVISION.PRELOAD_CALLBACK">
  <Schedule OFFSET_TYPE="INCREMENTAL">
    <IntervalSchedule INTERVAL = "7" TIME_UNIT = "Day"/>
```

25.3.2.1.2 Load

Das default collection Interval von 5 Min wurde auf 1 Min reduziert. Leider ist das Kommando „nmupm osLoad“, das für jede Disk einen lstat64 system call durchführt, zu intensiv für Systeme mit hunderten von LUNs. Deshalb wird die Metric wieder auf 5 Min gesetzt.

25.4 Metric Reference

Enterprise Manager Framework, Host, and Third-Party Metric Reference Manual:
http://download.oracle.com/docs/cd/B16240_01/doc/em.102/b16230/toc.htm

Enterprise Manager Oracle Database and Database-Related Metric Reference Manual:
http://download.oracle.com/docs/cd/B16240_01/doc/em.102/b25986.pdf

26 Upgrade der OEM Infrastruktur auf 10.2.0.4

26.1 Upgrade der Repository Datenbank von 10.2.0.3 auf 10.2.0.4

```
lsnrctl stop LISTENER_LPEMREP
```

```
sqlplus ,/as sysdba“  
shutdown immediate
```

Backup von \$ORACLE_HOME und oraInventory

```
./runInstaller
```

```
root.sh
```

```
sqlplus ,/as sysdba“
```

- SQL> STARTUP UPGRADE
- Set the system to spool results to a log file for later analysis:

```
SQL> SPOOL upgrade_info.log
```

- Run the Pre-Upgrade Information Tool:

```
SQL> @?/rdbms/admin/utlu102i.sql
```

```
lsnrctl start LISTENER_LPEMREP
```

```
SQL> STARTUP UPGRADE  
SQL> SPOOL patch.log  
SQL> @?/rdbms/admin/catupgrd.sql  
SQL> SPOOL OFF
```

The Database 10.2.0.4 Patch Set includes the CPUApr2008 content.

Oracle Database 10.2 Upgrade Status Utility 04-30-2008 17:57:41

```
.  
Component                Status      Version HH:MM:SS  
Oracle Database Server    VALID      10.2.0.4.0 00:11:23  
JServer JAVA Virtual Machine  VALID      10.2.0.4.0 00:02:32  
Oracle XDK                 VALID      10.2.0.4.0 00:00:38  
Oracle Database Java Packages  VALID      10.2.0.4.0 00:00:26  
Oracle Text                VALID      10.2.0.4.0 00:00:27  
Oracle XML Database        VALID      10.2.0.4.0 00:02:38  
Oracle Workspace Manager    VALID      10.2.0.4.3 00:00:55  
Oracle Data Mining          VALID      10.2.0.4.0 00:00:27  
Oracle interMedia           VALID      10.2.0.4.0 00:04:03  
Oracle Ultra Search          VALID      10.2.0.4.0 00:00:31  
Oracle Expression Filter     VALID      10.2.0.4.0 00:00:11
```

```
shutdown immediate  
startup  
@?/rdbms/admin/utltp
```

26.2 Upgrade des OMS von 10.2.0.3 auf 10.2.0.4

```
. AGENT.env  
emctl stop agent  
. GRID.env  
opmnctl stopall
```

backup von OMS_HOME+oraInventory
backup von AGENT_HOME
backup von Repository Datenbank

Roll-back patch 5191377 if it has been applied to the Oracle Management Service (OMS)

/oracle/oms10g/OPatch/patch lsinventory
Invoking OPatch 10.2.0.3.0

Oracle interim Patch Installer version 10.2.0.3.0
Copyright (c) 2005, Oracle Corporation. All rights reserved..

Oracle Home : /oracle/oms10g
Central Inventory : /oracle/oraInventory
from : /etc/oraInst.loc
OPatch version : 10.2.0.3.0
OUI version : 10.2.0.3.0
OUI location : /oracle/oms10g/oui
Log file location : /oracle/oms10g/cfgtoollogs/patch/patch2008-05-02_09-46-23AM.log

Lsinventory Output file location : /oracle/oms10g/cfgtoollogs/patch/lsinv/lsinventory2008-05-02_09-46-23AM.txt

Installed Top-level Products (3):

Enterprise Manager Patchset	10.2.0.2.0
Enterprise Manager Patchset	10.2.0.3.0
Oracle Enterprise Manager Grid Console	10.2.0.1.0

There are 3 products installed in this Oracle Home.

Interim patches (7) :

Patch 5197525 : applied on Wed May 02 16:50:15 CEST 2007
Created on 23 Apr 2007, 01:25:17 hrs PST8PDT
Bugs fixed:
5197525

Patch 4865772 : applied on Wed Feb 21 22:26:55 CET 2007
Created on 23 Dec 2005, 16:52:33 hrs US/Pacific
Bugs fixed:
4865772

Patch 4620348 : applied on Fri Jul 14 12:16:23 CEST 2006
Created on 19 Sep 2005, 16:36:10 hrs
Bugs fixed:
4620348

Patch 4547445 : applied on Fri Jul 14 12:16:03 CEST 2006
Created on 22 Sep 2005, 10:00:46 hrs US/Pacific
Bugs fixed:
4547445

Patch 4488715 : applied on Fri Jul 14 12:15:12 CEST 2006
Created on 21 Sep 2005, 14:34:05 hrs US/Pacific
Bugs fixed:
4488715

Patch 4141076 : applied on Fri Jul 14 12:12:18 CEST 2006
Created on 28 Sep 2005, 14:37:41 hrs US/Pacific
Bugs fixed:
4141076

Patch 4067264 : applied on Fri Jul 14 12:11:36 CEST 2006
Created on 22 Sep 2005, 10:11:43 hrs US/Pacific
Bugs fixed:
4067264

OPatch succeeded.

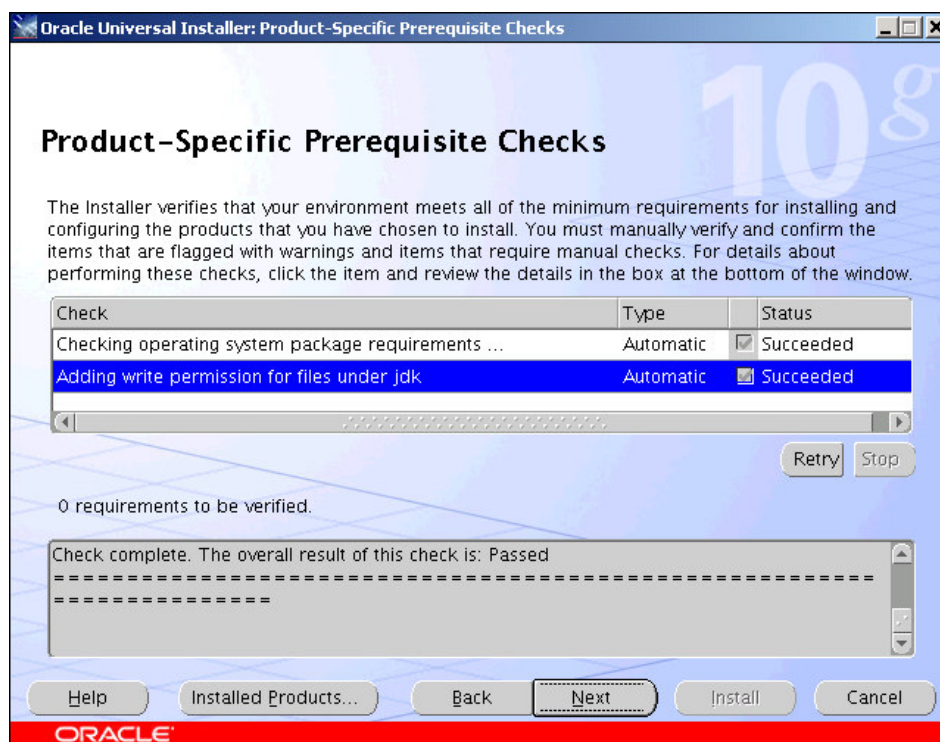
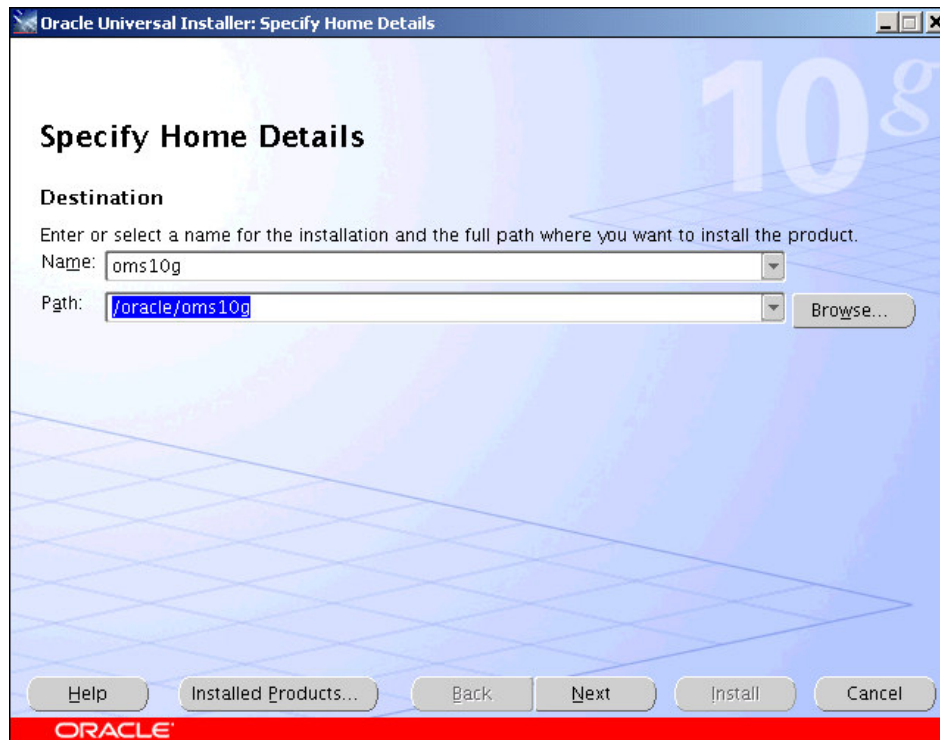
Executing required SQLs against repository to cleanup corrective actions

connect sysman@LPEMREP

```
BEGIN
FOR r IN (SELECT job_id
FROM mgmt_corrective_action a
WHERE NOT EXISTS
(SELECT 1
FROM mgmt_job j
WHERE j.job_id = a.job_id)
) LOOP
UPDATE mgmt_policy_assoc_cfg c
SET crit_action_job_id = NULL
WHERE crit_action_job_id = r.job_id
;
UPDATE mgmt_policy_assoc_cfg c
SET warn_action_job_id = NULL
WHERE warn_action_job_id = r.job_id
;
UPDATE mgmt_policy_assoc_cfg c
SET info_action_job_id = NULL
WHERE info_action_job_id = r.job_id
;
DELETE
FROM mgmt_corrective_action
WHERE job_id = r.job_id
;
COMMIT;
END LOOP;
COMMIT;
END;
/
```

unzip p3731593_10204_<platform name>.zip

```
oracle@oemhost1:/oracle/install/3731593/Disk1> export DISPLAY=192.168.0.10:0.0
oracle@oemhost1:/oracle/install/3731593/Disk1> ./runInstaller
```



Geben Sie das SYS Passwort ein.

Oracle Universal Installer: Oracle Configuration Manager Registration

Oracle Configuration Manager Registration

☐ Enable Oracle Configuration Manager

Oracle Configuration Manager allows you to associate your configuration information with your Metalink account. When you log your service request with Oracle, you can link your request with the pre-collected configuration data in this ORACLE_HOME.

Customer Identification Number (CSI):

Metalink Account Username:

Country Code:

Provide your CSI Number, Metalink Account and Country Code associated with your service agreement. To verify your information, press "Test Registration" button.

If a connection from your network to the public internet requires you to connect through a Proxy, use "Connection Settings".

If you choose not to enable Oracle Configuration Manager at this time, you may refer to the Oracle Configuration Manager Installation and Administration Guide to complete the configuration at anytime in the future.

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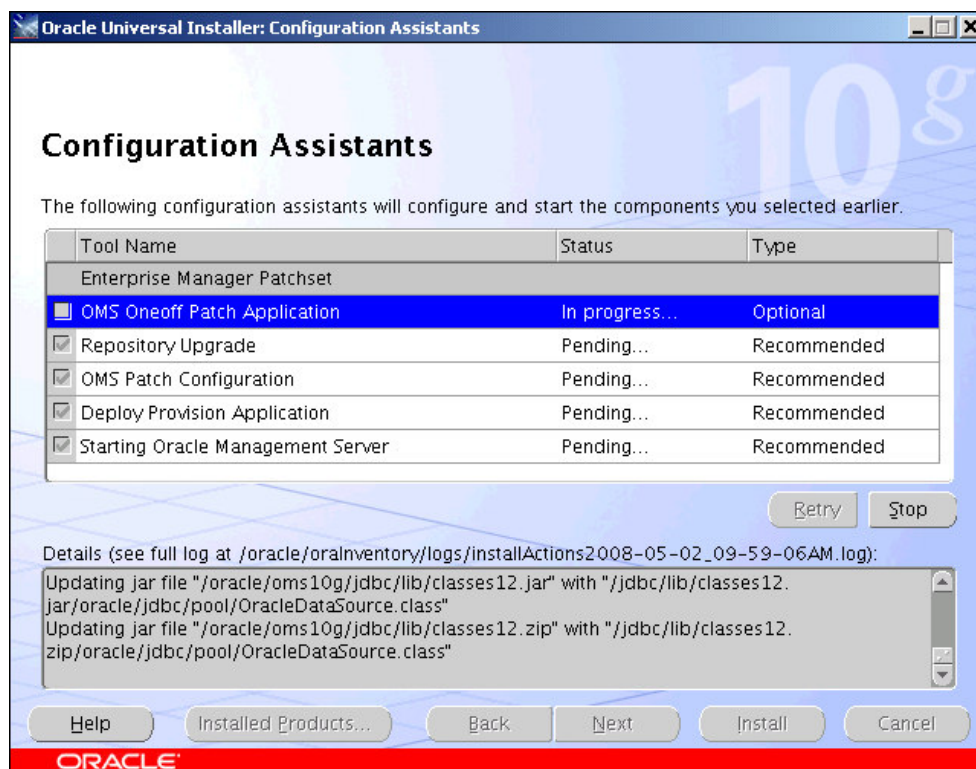
Oracle Universal Installer: Summary

Summary

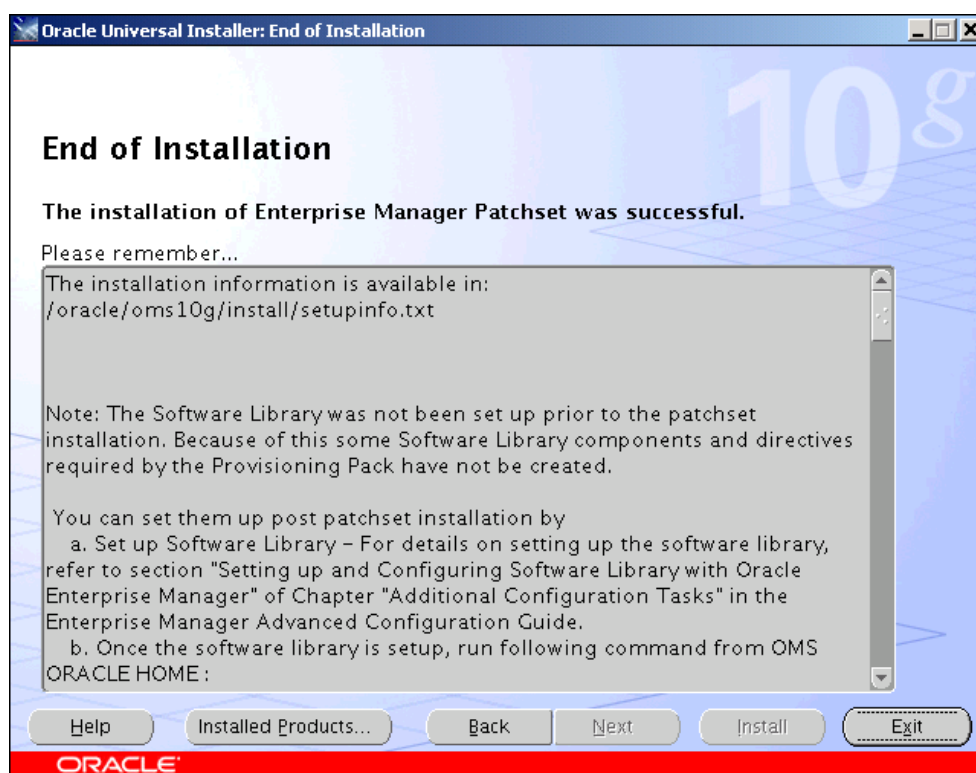
Enterprise Manager Patchset 10.2.0.4.0

- Interim Patch# 4141076
- Interim Patch# 4488715
- Interim Patch# 4547445
- Interim Patch# 5197525
- Reinstallations (8 products)**
- Upgrades (70 products)**
- New Installations (6 products)**
 - Authentication and Encryption Patch 10.1.0.5.0
 - Enterprise Manager Patchset 10.2.0.4.0
 - Enterprise Manager Repository 10.2.0.4.0
 - Oracle TopLink Runtime 10.1.3.1.0
 - Patch of Sun JDK 1.4.2.14.02
 - Platform Required Support Files Patch 10.1.0.5.0
- Already Installed (72 products)**

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Check: /oracle/oms10g/sysman/log/emrepmgr.log.10.2.0.4.0



26.3 Upgrade des AGENT (auf dem oms host) von 10.2.0.3 auf 10.2.0.4

. AGENT.env

./runInstaller

oracle@oemhost1:/oracle/install/3731593/Disk1> ./runInstaller

26.4 Upgrade aller Agents von 10.2.0.3 auf 10.2.0.4

Download von Patch Installer für Platform:

Linux:

http://download.oracle.com/otn/linux/oem/10204/GridControl_10.2.0.4_LINUX.zip

daraus:

-rw-r--r-- 1 oracle dba 719916398 2007-10-22 14:38 p3731593_10204_LINUX.zip

HP-UX:

http://download.oracle.com/otn/hp/oem/Grid_Control_10.2.0.4.0_HPIA64%5B1%5D.zip

http://download.oracle.com/otn/hp/oem/Grid_Control_10.2.0.4.0_HPIA64%5B2%5D.zip

27 Repository Maintenance

27.1 Online Weekly Tasks

Prüfen von

- Setup -> Management Services and Repository -> Errors
- Alerts -> Errors -> Error Type: Collection Failure
- Alert -> Targets Down
- Alert Log von EMREP Repository Datenbank

27.2 Offline Monthly Tasks

- Stoppen vom Management Service und Agent
- connect sysman
- exec emd_maint_util.partition_maintenance; (ab 10.2.0.3 : exec emd_maintenance.partition_maintenance; (Nicht mehr notwendig ab 10.2.0.4!))
- **Rebuild Fragmented Segments:**

```
SELECT UT.TABLE_NAME,
       ROUND(UT.NUM_ROWS * UT.AVG_ROW_LEN / 1024 / 1024, 2) "CALCULATED SIZE
MB",
       ROUND(US.BYTES / 1024 / 1024, 2) "ALLOCATED SIZE MB",
       ROUND(US.BYTES / (UT.NUM_ROWS * UT.AVG_ROW_LEN), 2) "TIMES LARGER"
FROM   USER_TABLES UT, USER_SEGMENTS US
WHERE  (UT.NUM_ROWS > 0 AND UT.AVG_ROW_LEN > 0 AND US.BYTES > 0)
       AND UT.PARTITIONED = 'NO'
       AND UT.IOT_TYPE IS NULL
       AND UT.IOT_NAME IS NULL
       AND UT.TABLE_NAME = US.SEGMENT_NAME
       AND ROUND(US.BYTES / 1024 / 1024, 2) > 5
       AND ROUND(US.BYTES / 1024 / 1024, 2) >
        (ROUND(UT.NUM_ROWS * UT.AVG_ROW_LEN / 1024 / 1024, 2) * 2)
ORDER BY 4 DESC;
```

28 Probleme

28.1 Fehlende SuSE Linux Packages

Folgendes Package wurde anfangs nicht installiert und musste nach-installiert werden.

```
openmotif-2.2.2-519.1
```

Folgendes Package war nicht in den Installation Documentations von Grid Control enthalten, wird aber benötigt:

```
db1-1.85-85.1
```

28.2 Symlink nicht erlaubt in \$ORACLE_HOME Pfad für Grid Control

Lt. MetaLink Note 352357.1 darf der Pfad kein Symlink sein!

28.3 wget für HP-UX Itanium

Es wurde manuell ein wget für Itanium kompiliert.

28.4 Zu wenig Plattenplatz auf /oracle/agent10g für Patch auf 10.1.0.3

Das Problem konnte umgangen werden, indem temporär das Verzeichnis \$AGENT_HOME/instantclient32 nach /tmp verschoben und verlinkt wurde.

```
mv $AGENT_HOME/instantclient32 /tmp/instantclient32  
ln -s /tmp/instantclient32 $AGENT_HOME/instantclient32
```

28.5 Fehler in OUI 10.1.0.2 - ProcessPresence

Das Jar File RunningProcessQuery.jar des OUI 10.1.0.2 enthält ein defektes getRunningProcessQuery.class File.

Als Lösung wurde das Class File aus dem OUI von 10.2 extrahiert:

```
jar xf RunningProcessesQuery.jar
```

Das entpackte getRunningProcessQuery.class wurde dann im OUI Verzeichnis ins 10.1.0.2 OUI RunningProcessQuery.jar eingefügt.

```
jar -uvf RunningProcessesQuery.jar /tmp/getRunningProcess.class
```

Dieses Jar File muss anschließend auch nach \$ORACLE_HOME/inventory/Queries21/RunningProcessQuery/1.5.1/RunningProcessesQuery.jar kopiert werden.

28.6 Agent Installation auf RAC - /usr/local/bin/ssh und /usr/local/bin/scp symlinks

Im OUI 10.1.0.2 des Agents ist der Pfad zu ssh und scp hardcoded auf /usr/local/bin gesetzt. Deshalb muss mittels root-Rechten ein symlink von /usr/bin/ssh zu /usr/local/bin/ssh bzw. /usr/bin/scp zu /usr/local/bin/scp gesetzt werden.

28.7 Agent Installation auf RAC – Silent Install korruptiert Inventory

Wird der RAC Agent 10.1.0.2 silent installiert, wird die Datei \$AGENT_HOME/inventory/ContentsXML/comps.xml korrupt installiert. Lösung ist die interaktive Installation. (alle runInstaller Parameter ausser -silent)

28.8 Agent Installation auf RAC – Platzmangel auf /oracle/agent10g

Aufgrund von Platzmangel auf /oracle/agent10g muss ein alternativer Staging -Bereich verwendet werden. Dazu wird das agentDownload Script editiert.

```
chmod o+w /etc/oratab
```

Aufgrund von Platzmangel in /oracle/agent10g muss die InstallerStage gesetzt werden:

```
mkdir /var/adm/crash/oracle/oem
```

DownloadFiles="YES" in Zeile 324 von agentDownload Script.
Editieren von agentDownload Script:

Hinzufügen zu runInstaller Aufruf:
-logLevel trace -J-DTRACING.ENABLED=true -DTRACING.LEVEL=2"

```
./agentDownload.ia64hpunix -x -o /oracle/agent10g/10.1.0 -i  
/oracle/agent10g/oraInst.loc -s /var/adm/crash/oracle/oem
```

Referenzen:

Note 235287.1 How To Install The Downloadable Central Management Agent in EM 10g Grid Control

Note #2: The agent_download script does not work for RAC targets due to unpublished Bug 4369095, projected to be fixed in 10gRelease2. Workaround is to do the install Manually, using the OUI.

Bug 4369095: IN RAC MACHINE AGENT DOWNLOAD SCRIPT DOESN'T COPY THE FILE IN REMOTE NODE

From Bug : 3472820 - Unpublished

We were able to get this install (CRS on Solaris 9) to complete by doing, as root:

```
ln -s /usr/bin/ssh /usr/local/bin/ssh
```

```
ln -s /usr/bin/scp /usr/local/bin/scp
```

Note:306157.1 RAC Issues Addressed in 10.1.0.3 Patchset

28.9 Fehlender Platz in /tmp

```
mkdir /tmp/oracle_install/agent10203
cd /tmp/oracle_install/agent10203
$ export TMPDIR=`pwd` /
$ export TEMP=`pwd` /
$ export TMPDIR=`pwd` /
$ export TMP=`pwd` /
```

28.10 Probleme bei Datenbank Targets 10.2.0.2/10.2.0.3/10.2.0.4

OEM Agent setzt folgendes Statement ab:

```
SELECT end_time, status, session_key, session_recid, session_stamp,
command_id, start_time, time_taken_display, input_type,
output_device_type, input_bytes_display, output_bytes_display,
output_bytes_per_sec_display
FROM v$rman_backup_job_details
WHERE end_time = (select max(end_time) from v$rman_backup_job_details)
*
```

ERROR at line 5:

ORA-01652: unable to extend temp segment by 128 in tablespace TEMP

1 GB TEMP hat nicht ausgereicht dafür.

Lösung:

Subject: **Poor performance when accessing V\$RMAN_BACKUP_JOB_DETAILS** [Doc ID:](#)
Note:420200.1

```
SQL> exec dbms_stats.DELETE_TABLE_STATS('SYS','X$KCCRSR');
```

PL/SQL procedure successfully completed.

```
SQL> exec dbms_stats.LOCK_TABLE_STATS('SYS','X$KCCRSR');
```

28.11 Probleme beim Oracle Inventory (SaxParseException)

In der Datei:

```
/oracle/agent10g/10.2.0/inventory/ContentsXML/oraclehomeproperties.xml
```

fehlt das abschließende XML Tag:

```
</ORACLEHOME_INFO>
```

Fehlermeldung:

```
org.xml.sax.SAXParseException: <Line 9, Column 25>: XML-20210: (Fatal Error)
Unexpected EOF.
```

28.12 Grid Control shows Cpu I/O Wait as greater than > 100% (MetaLink Note 421793.1)

The GRID Control console shows the CPU I/O Wait as > 100% incorrectly.

This is caused by BUG 5413598, 5965325 and 5347288.

To implement the solution, please execute the following steps:

1. This issue needs an operating system specific patch. For Linux use patch 5347288. Only patches for 10.1.0.4 and 10.2.0.2 are available at this time. For HP use patch 5965325 when available.

2. Workaround if patch is not available:

In the host.xml file (AGENT ORACLE_HOME/sysman/admin/metadata/host.xml), there are three places where we define totalTimeRawDiff, please edit the all places as (userTimeRawDiff + systemTimeRawDiff + waitTimeRawDiff + idleTimeRawDiff)

Example:

Change:

```
<ColumnDescriptor NAME="totalTimeRawDiff" TYPE="NUMBER" IS_KEY="FALSE"
TRANSIENT="TRUE"
COMPUTE_EXPR="(userTimeRawDiff + systemTimeRawDiff + idleTimeRawDiff)" HELP="NO_HELP">
```

To

```
<ColumnDescriptor NAME="totalTimeRawDiff" TYPE="NUMBER" IS_KEY="FALSE"
TRANSIENT="TRUE"
COMPUTE_EXPR="(userTimeRawDiff + systemTimeRawDiff + waitTimeRawDiff + idleTimeRawDiff)"
HELP="NO_HELP">
```

Then reload the agent and wait for the metric to check again: emct reload agent

28.13 Management Agent Installation on Linux Fails with Error /usr/bin/lsb_release not found

MetaLink Note:

The Management Agent 10.2.0.3 is being deployed to a Linux system. The installation fails with the following error:

```
INFO: -----
INFO: Checking CertifiedVersions
This is a prerequisite condition to test whether the Oracle software is certified on the
current O/S.
INFO: Expected result: One of redhat-3,redhat-4,SuSE-8,SuSE-9,SuSE-10
Actual Result: redhat-line 1: /usr/bin/lsb_release: No such file or directory
Check complete. The overall result of this check is: Failed <<
.....
```

.....
OUI-62009: Some requirement checks failed. You must fulfill these requirements before continuing with the installation, at which time they will be rechecked.

NOTE: This error does not occur when the Oracle Universal Installer (OUI) is started directly. It only occurs when the agentDownload.sh script starts OUI.

The problem is caused by an unpublished bug, 5763742.

The `lsb_release` utility is used as a primary method to determine the OS info. If the utility is not installed on the system, then the method of parsing the `/etc/<vendor>-release` should be used.

This currently does not happen, due to the above bug.

Workaround

As the 'root' user:

1. Create a dummy empty file called `/usr/bin/lsb_release`
2. Modify the permissions on the file to 755 (using the command "`chmod 755 /usr/bin/lsb_release`")
3. Start the `agentDownload.sh` script to install the Management Agent
4. Delete the newly created file `/usr/bin/lsb_release`

Solution

Install the RPM package that provides the `lsb_release` utility.

On Red Hat systems, the package is called `redhat-lsb-<version>.EL.<arch>.rpm`

On SUSE systems, the package is called `lsb-<version>.<arch>.rpm`

A fix for this problem will be provided in a future release of the Oracle Universal Installer (OUI). If OUI does not find the `lsb_release` utility, it will parse the `/etc/<vendor>-release` file instead.

Since the fix is not available for the current release, the operating system package that provides the `lsb_release` utility needs to be installed to solve this problem.

Alternatively, you can workaround this problem by creating an empty script (see above)

28.14 Apache Error / Access Log erreicht File-Limit von 2 GB

Im File /oracle/oms10g/sysman/config/httpd_em.conf müssen die folgenden beiden Zeilen ausgetauscht werden:

statt:

```
ErrorLog /oracle/oms10g/Apache/Apache/logs/error_log  
TransferLog "/oracle/oms10g/Apache/Apache/logs/access_log"
```

neu:

```
ErrorLog "|/oracle/oms10g/Apache/Apache/bin/rotatelogs  
/oracle/oms10g/Apache/Apache/logs/error_log 43200"  
TransferLog "|/oracle/oms10g/Apache/Apache/bin/rotatelogs  
/oracle/oms10g/Apache/Apache/logs/access_log 43200"
```

28.15 Bug 7031906: Health Check für 10.2.0.4 Databases bei 10.2.0.4 agents auf HP-UX IA64

Patch 7031906 muss installiert werden.

Ansonsten erscheint diese Fehlermeldung und die Anzahl der File-Descriptors des Agents steigt ständig.

```
2008-06-27 14:32:28,973 Thread-301 ERROR engine: [oracle_database,MDDDB2.world,health_check] :  
nmeegd_GetMetricData failed : Instance Health Check initialization failed due to one of the following causes:  
the owner of the EM agent process is not same as the owner of the Oracle instance processes; the owner of the  
EM agent process is not part of the dba group; or the database version is not 10g (10.1.0.2) and above.  
2008-06-27 14:32:28,973 Thread-301 WARN collector: <nmeccmc.c> Error exit. Error message: Instance Health  
Check initialization failed due to one of the following causes: the owner of the EM agent process is not same as  
the owner of the Oracle instance processes; the owner of the EM agent process is not part of the dba group; or  
the database version is not 10g (10.1.0.2) and above.
```

29 Upgrade der Repository Datenbank von 10.1.0.5 auf 10.2.0.3

- Stoppen aller Agents
- Stoppen von OMS
- Stoppen von EMREP

Requirements:

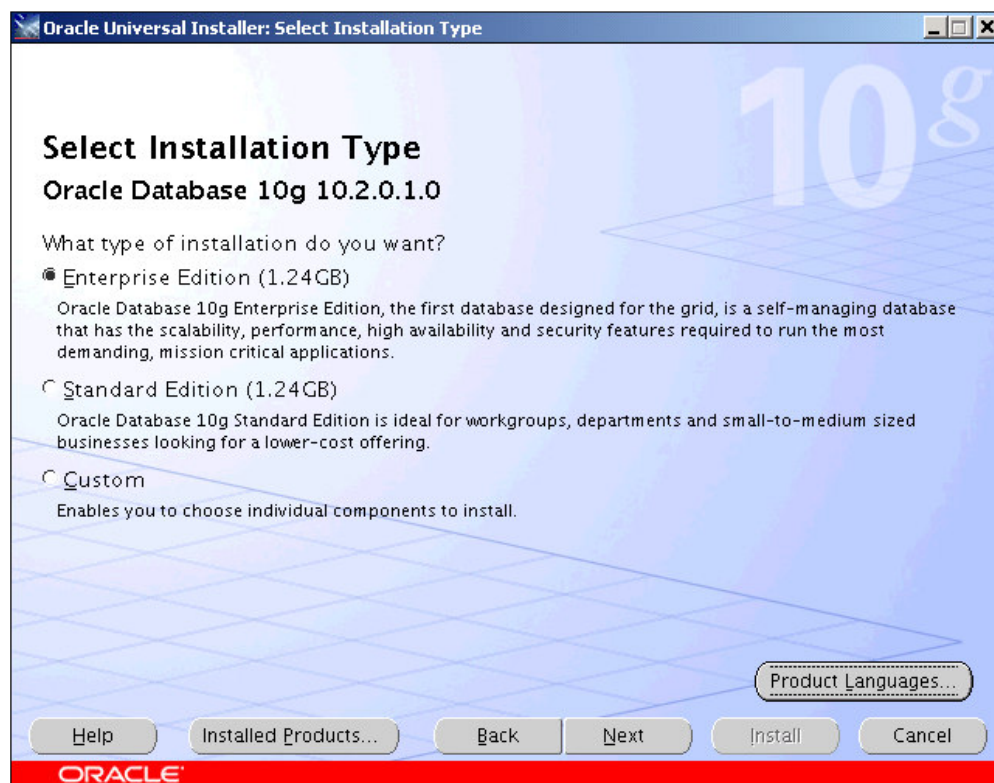
- SUSE SLES9 SP2 Upgrade auf SLES9 SP3
- Latest SUSE SLES9 SP3 Security/Patches
- Hugepages / VLM Installation (MetaLink Note **317139.1**)

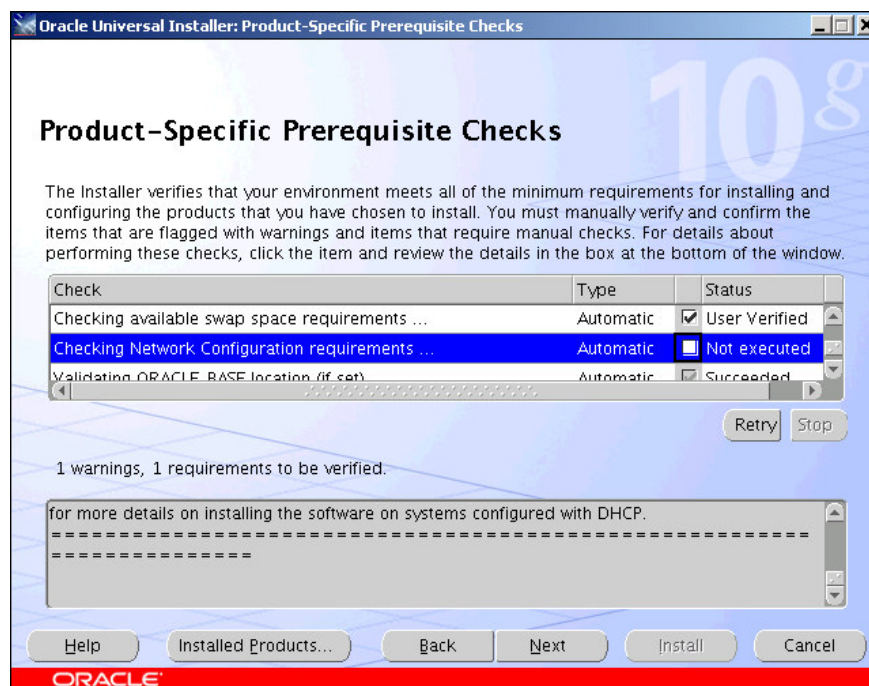
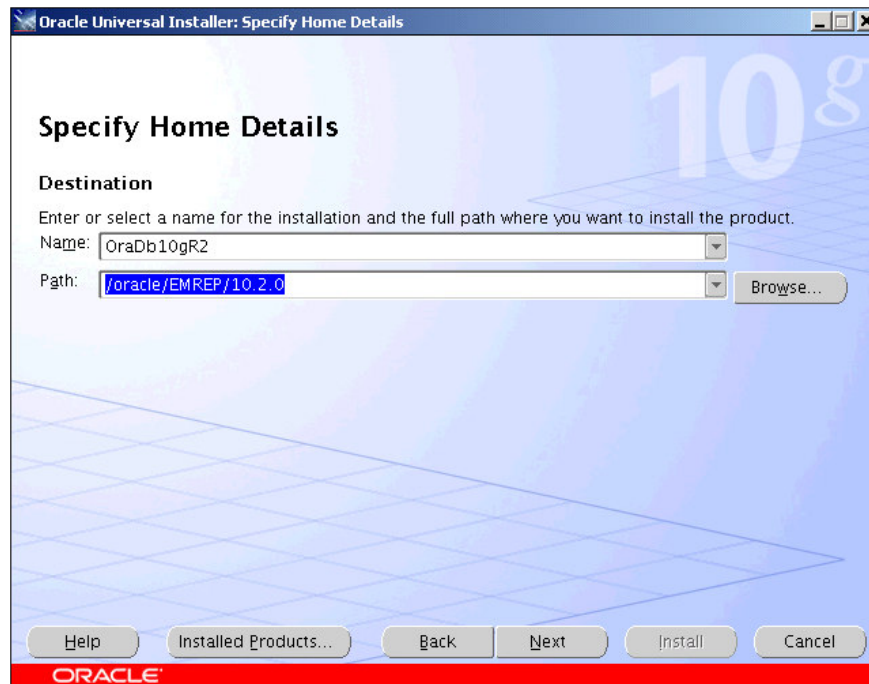
Installation von 10.2.0.1 Oracle Database Binaries (Install Database Software Only)

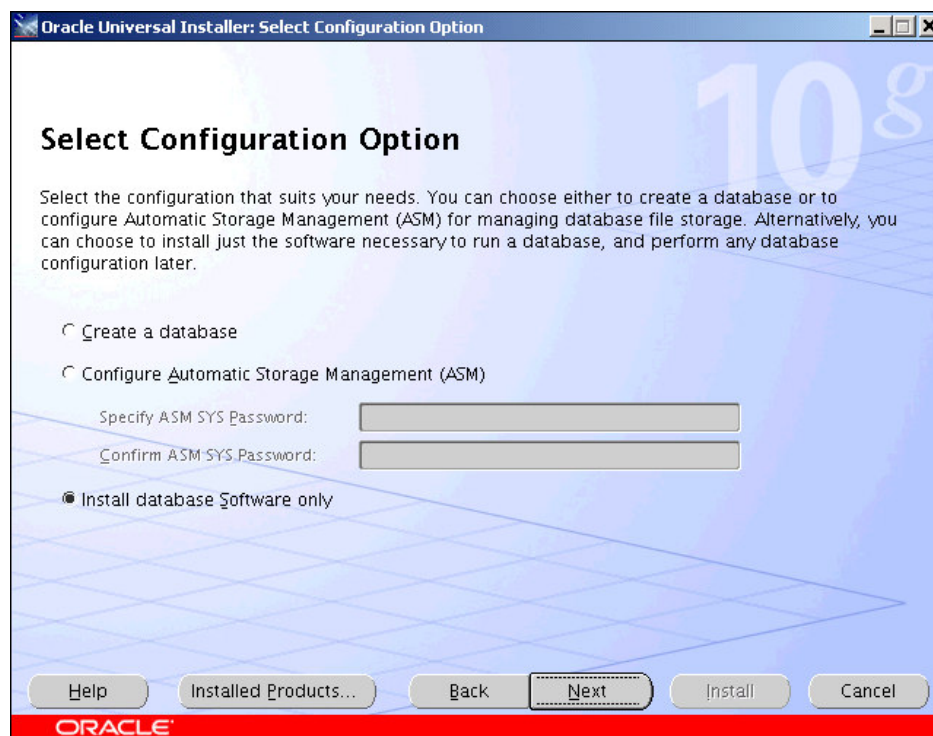
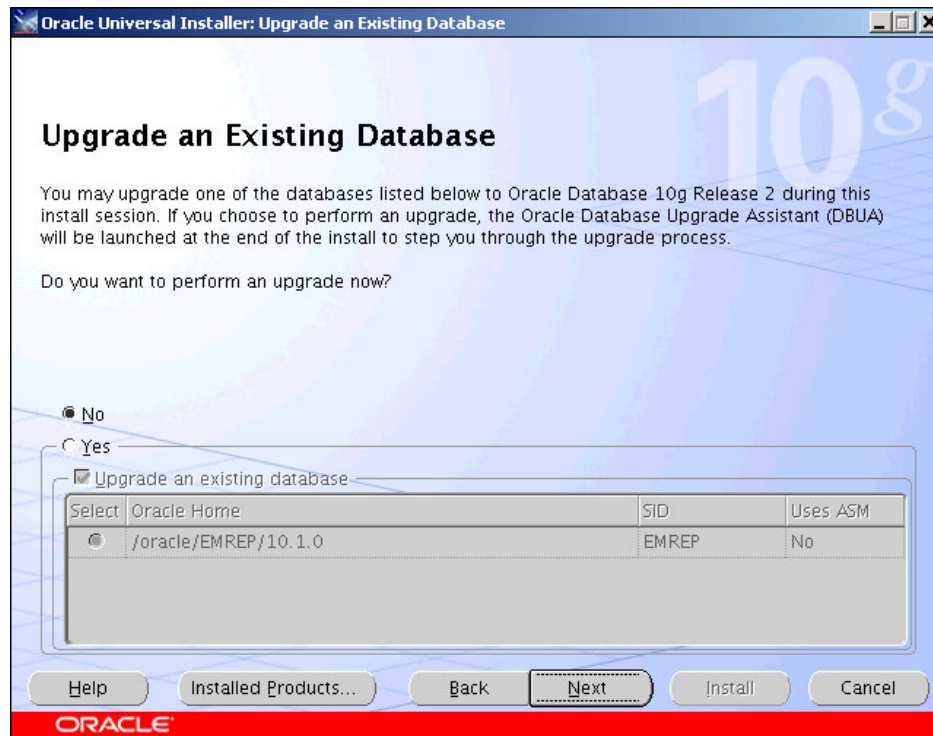
ORACLE_HOME_NAME=DBHOME10gR2

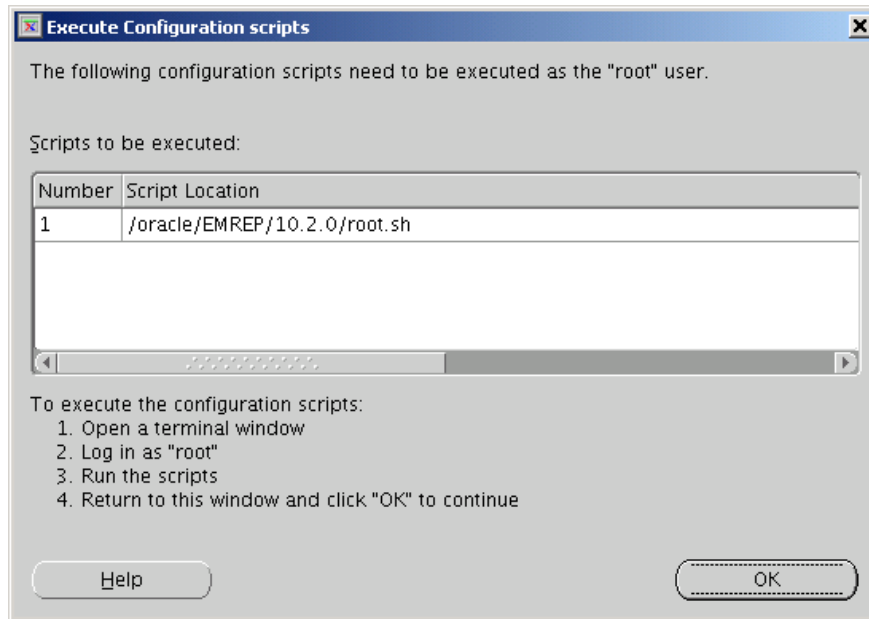
ORACLE_HOME=/oracle/EMREP/10.2.0

`./runinstaller -ignoreSysPrereqs`



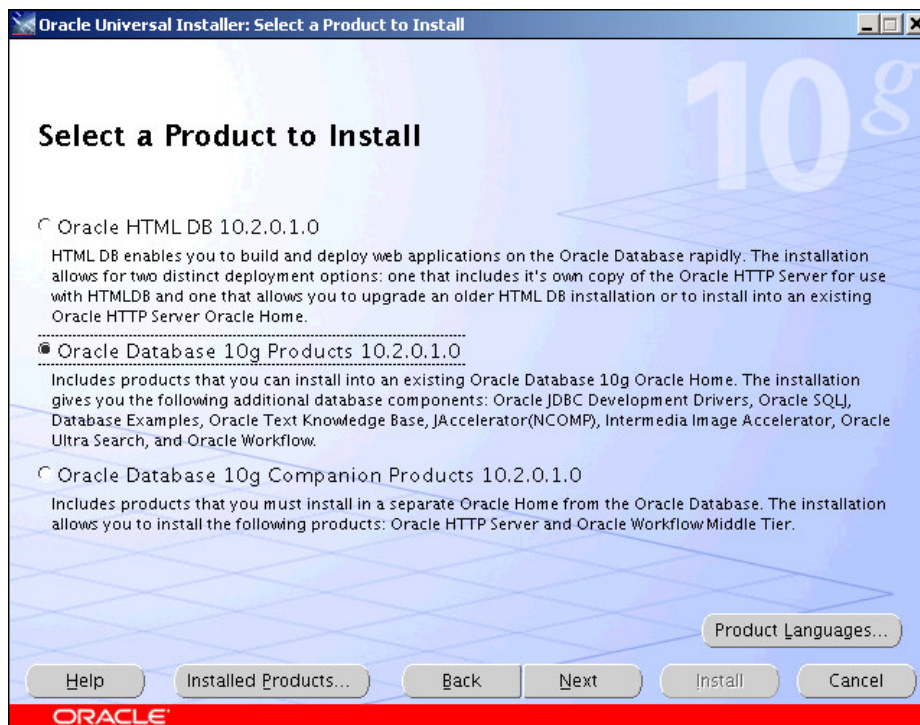


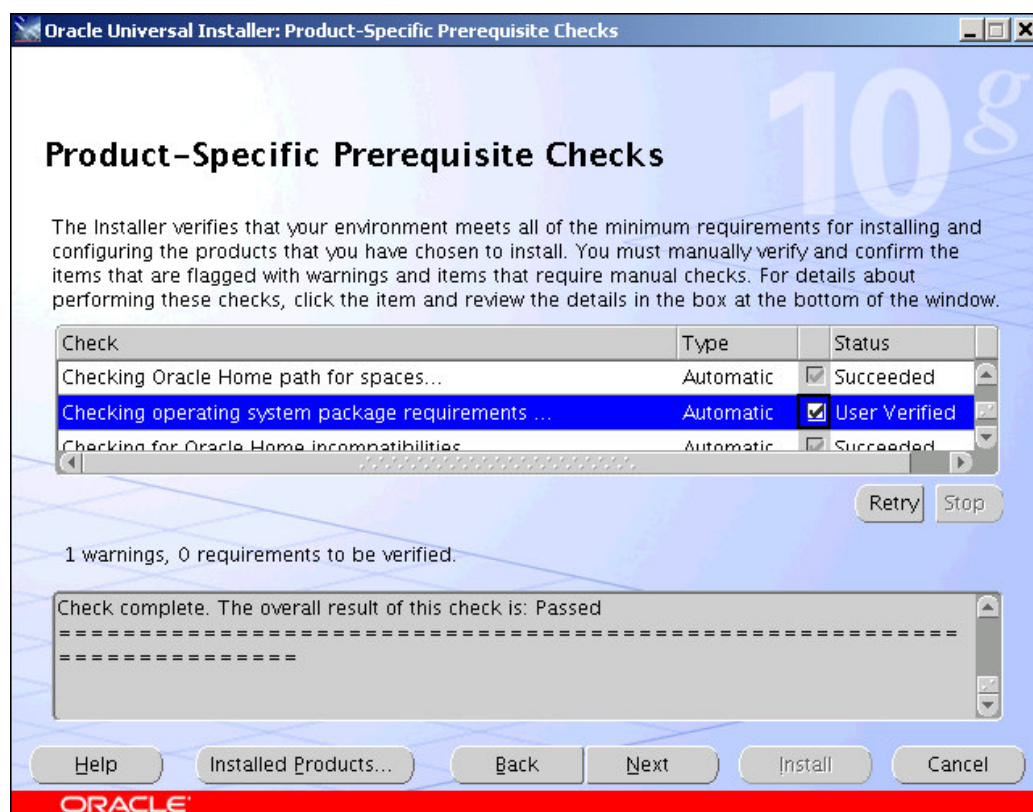
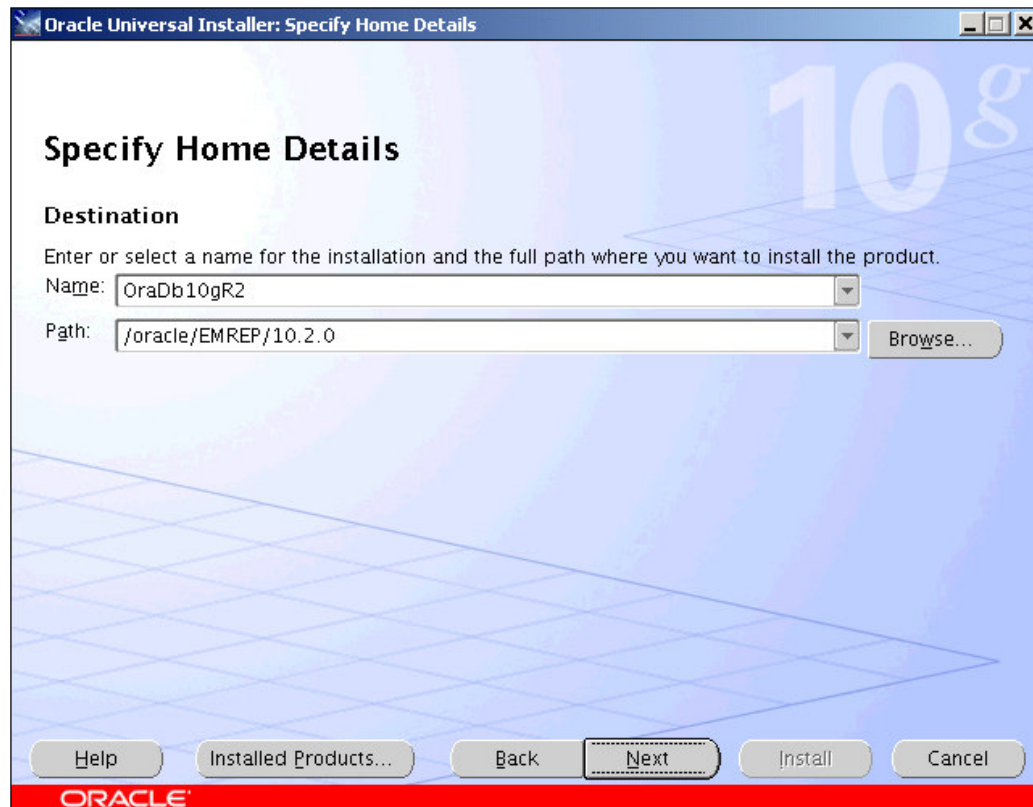




Installation von 10.2.0.1 Oracle Companion Products (NCOMP)

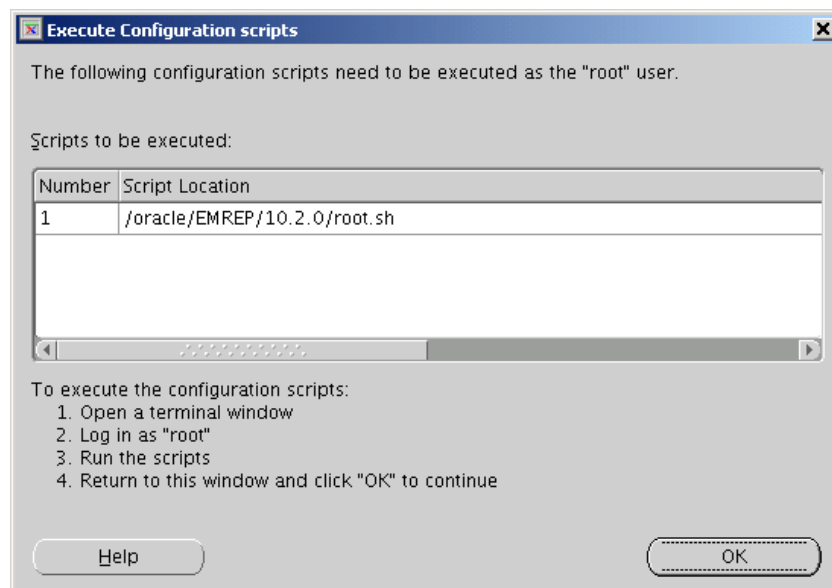
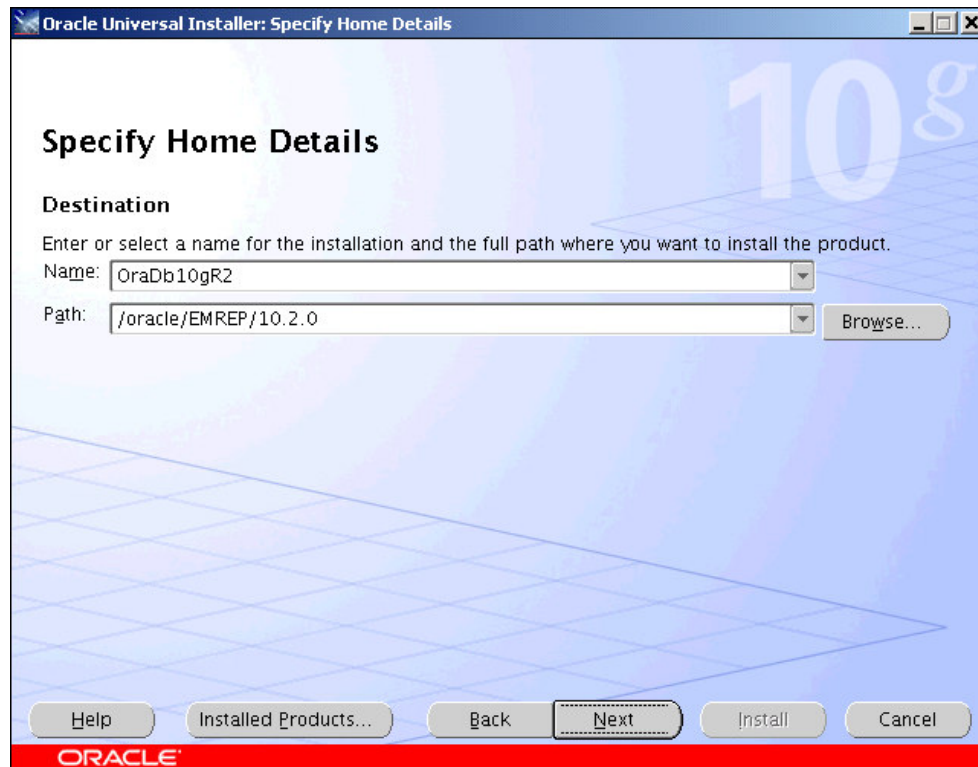
`./runinstaller -ignoreSysPrereqs`





Upgrade des neuen Oracle-Home auf 10.2.0.3

./runInstaller



Upgrade der Datenbank mittels catupgbd.sql:

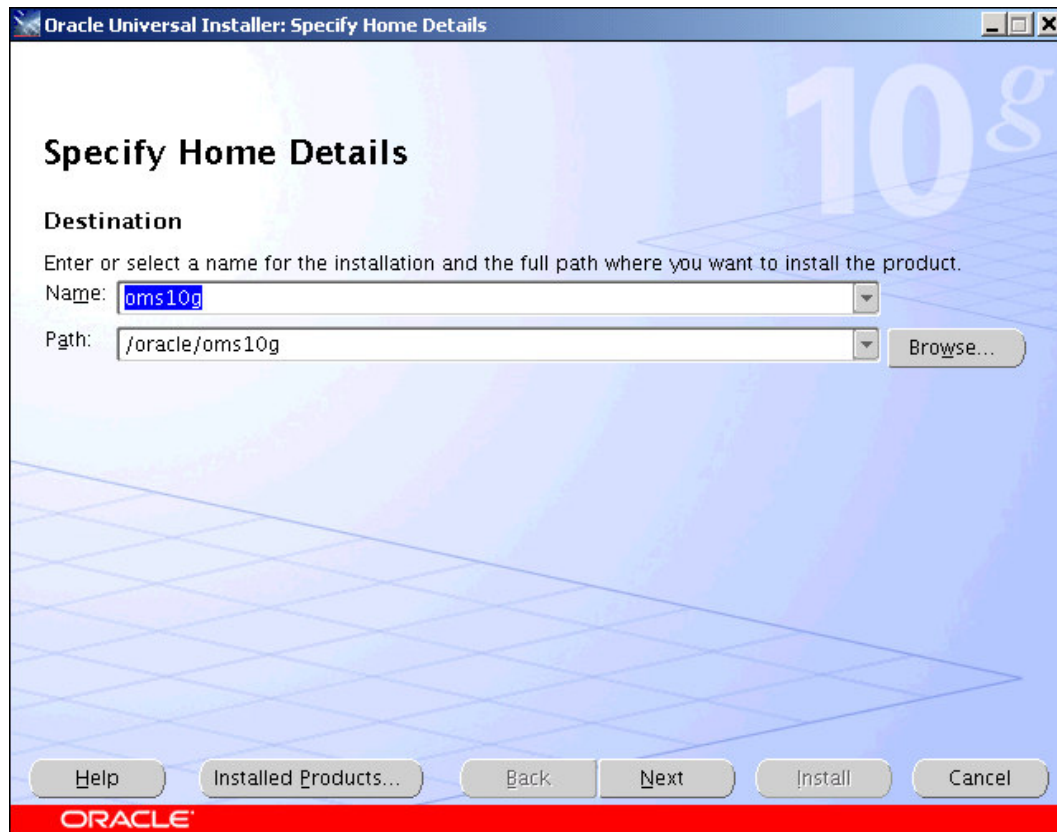
Check mit utlul02i.sql mit altem oracle Home.
EXEC DBMS_STATS.GATHER_DICTIONARY_STATS;

Check DBA_REGISTRY
utlrp

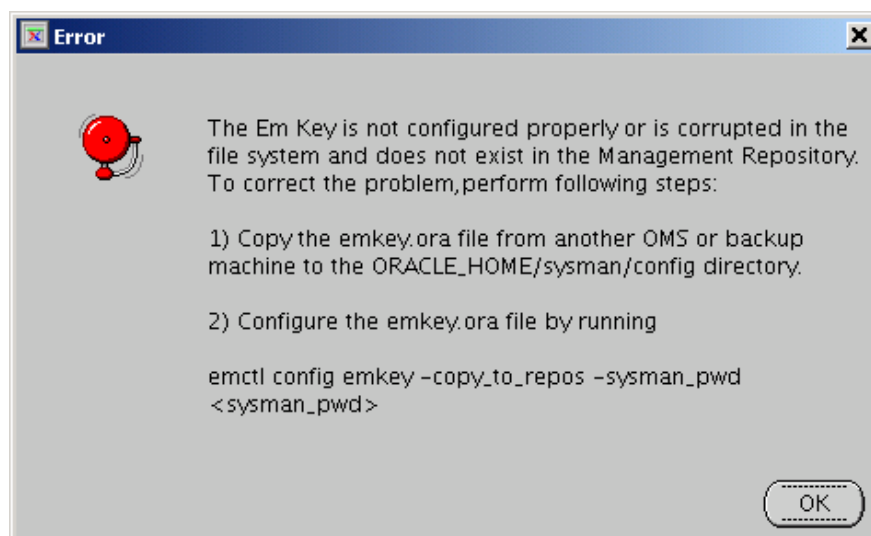
30 Upgrade Oracle Enterprise Manager (OMS/Agent) von 10.2.0.2 auf 10.2.0.3

Deinstallation von OMS one off patch 5619979.

Installation OMS 10.2.0.3



Setzen Sie das SYS Passwort.



emctl status emkey

Oracle Enterprise Manager 10g Release 10.2.0.2.0

Copyright (c) 1996, 2006 Oracle Corporation. All rights reserved.

Please enter repository password:

The Em Key is config/red properly.

oracle@oemhost1:/oracle/oms10g/sysman> emctl config emkey -copy_to_repos

Oracle Enterprise Manager 10g Release 10.2.0.2.0

Copyright (c) 1996, 2006 Oracle Corporation. All rights reserved.

Please enter repository password:

The Em Key has been copied to the Management Repository. This operation will cause the Em Key to become unsecure.

After the required operation has been completed, secure the Em Key by running "emctl config emkey - remove_from_repos".

oracle@oemhost1:/oracle/oms10g/sysman> emctl status emkey

Oracle Enterprise Manager 10g Release 10.2.0.2.0

Copyright (c) 1996, 2006 Oracle Corporation. All rights reserved.

Please enter repository password:

The Em Key is configured properly, but is not secure. Secure the Em Key by running "emctl config emkey - remove_from_repos".

emkey.ora:

KEY=053EFD0EE127E6E177A9E21AAE0738D8986E6A14D53436BAF5F9E0A6B8810D49050D0DF2D3EC
60F3D48934CD0780FB3DF6436184FE57AB161CD851DD3F231479D5472FDB0FAE690DF3C0CFA65260D
7776E

Oracle Universal Installer: Oracle Configuration Manager Registration

Oracle Configuration Manager Registration

☐ Enable Oracle Configuration Manager

Oracle Configuration Manager allows you to associate your configuration information with your Metalink account. When you log your service request with Oracle, you will be able to link your request with the pre-collected configuration data in this ORACLE_HOME.

Customer Identification Number (CSI):

Metalink Account Username:

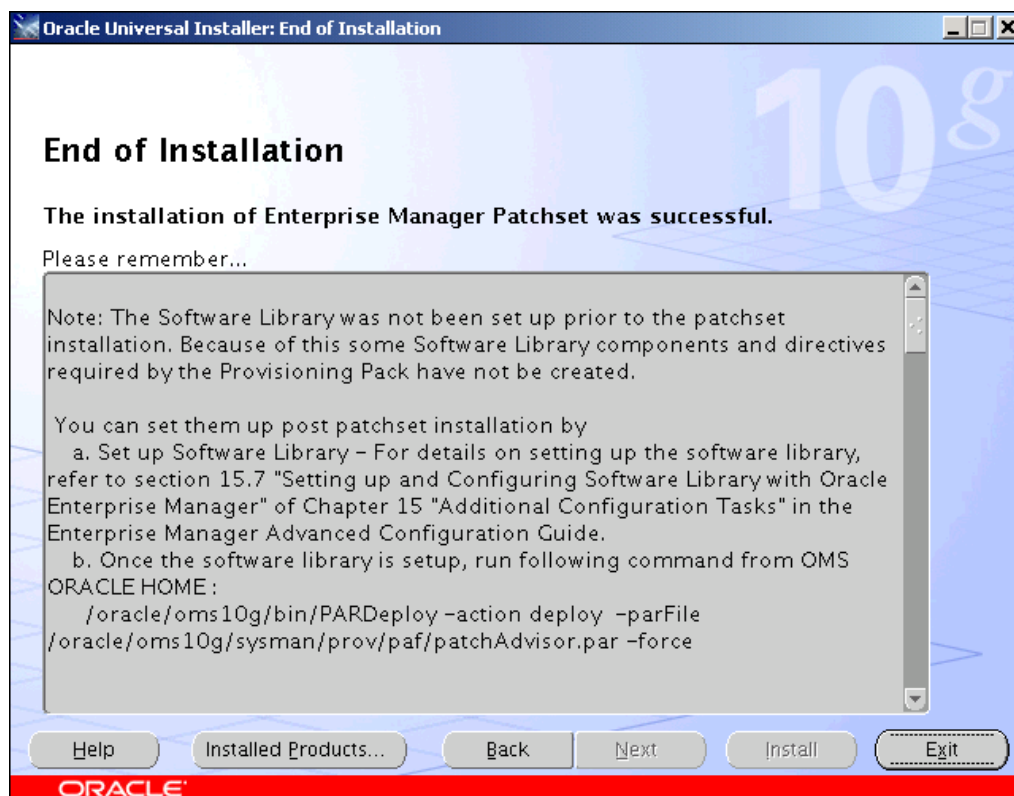
Country Code:

Provide your CSI Number, Metalink Account and Country Code associated with your service agreement. To verify your information, press "Test Registration" button.

If a connection from your network to the public internet requires you to connect through a Proxy, use "Connection Settings".

If you choose not to enable Oracle Configuration Manager at this time, you may refer to the Oracle Configuration Manager Installation and Administration Guide to complete the configuration at anytime in the future.

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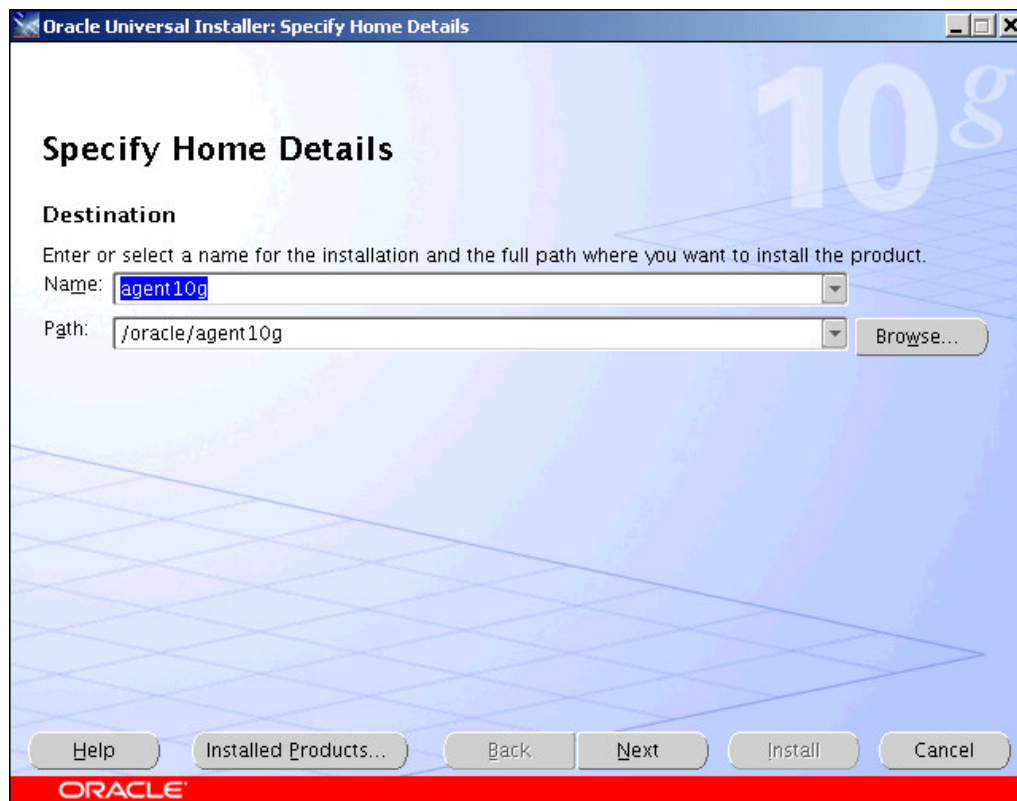


Repository wird automatisch upgegraded, log in /oracle/oms10g/sysman/log/emrepmgr.log.\$\$

Installation Agent 10.2.0.3

AGENT.env

HowTo_Installation_GridControl.pdf



Oracle Universal Installer: Specify Home Details

Specify Home Details

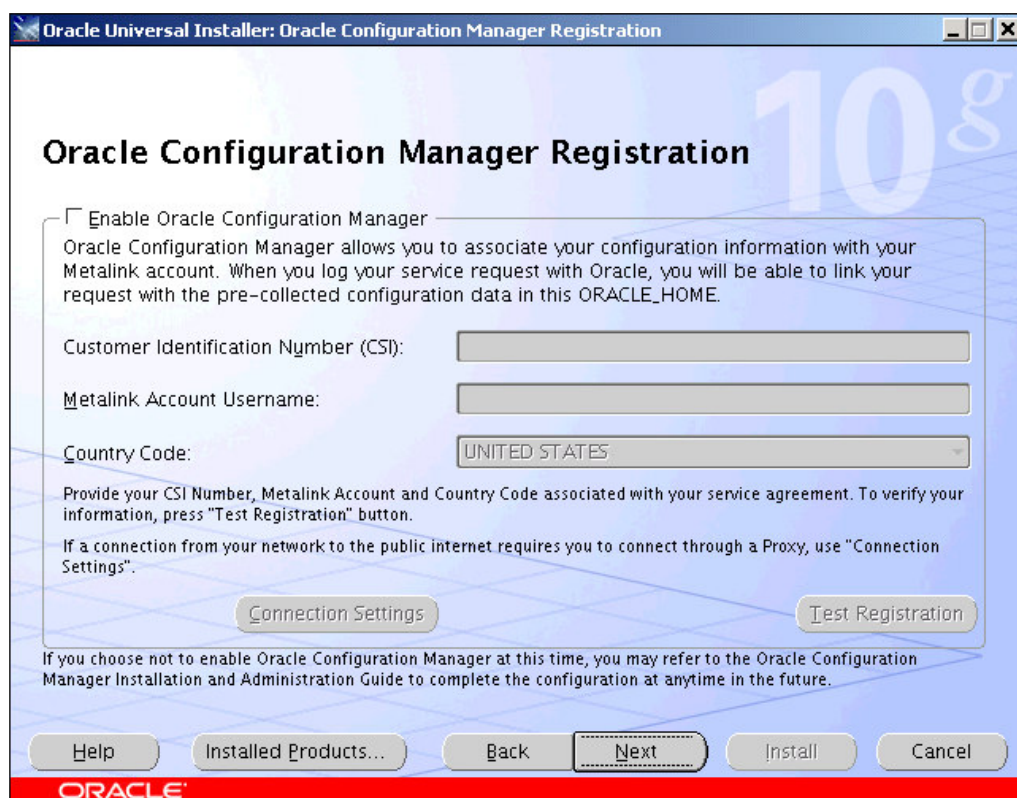
Destination

Enter or select a name for the installation and the full path where you want to install the product.

Name:

Path:

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Oracle Universal Installer: Oracle Configuration Manager Registration

Oracle Configuration Manager Registration

☐ Enable Oracle Configuration Manager

Oracle Configuration Manager allows you to associate your configuration information with your Metalink account. When you log your service request with Oracle, you will be able to link your request with the pre-collected configuration data in this ORACLE_HOME.

Customer Identification Number (CSI):

Metalink Account Username:

Country Code:

Provide your CSI Number, Metalink Account and Country Code associated with your service agreement. To verify your information, press "Test Registration" button.

If a connection from your network to the public internet requires you to connect through a Proxy, use "Connection Settings".

If you choose not to enable Oracle Configuration Manager at this time, you may refer to the Oracle Configuration Manager Installation and Administration Guide to complete the configuration at anytime in the future.

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Partition Maintenance

```
SQL> exec emd_maintenance.partition_maintenance;
```

PL/SQL procedure successfully completed.

Elapsed: 00:01:29.01

UTLRP

Ausschalten von init.cssd von /etc/inittab und entfernen aus /etc/init.d/rcX.d

Broken setzen von MGMT_CNTR_TT.clean_up_old_ticket_recs;

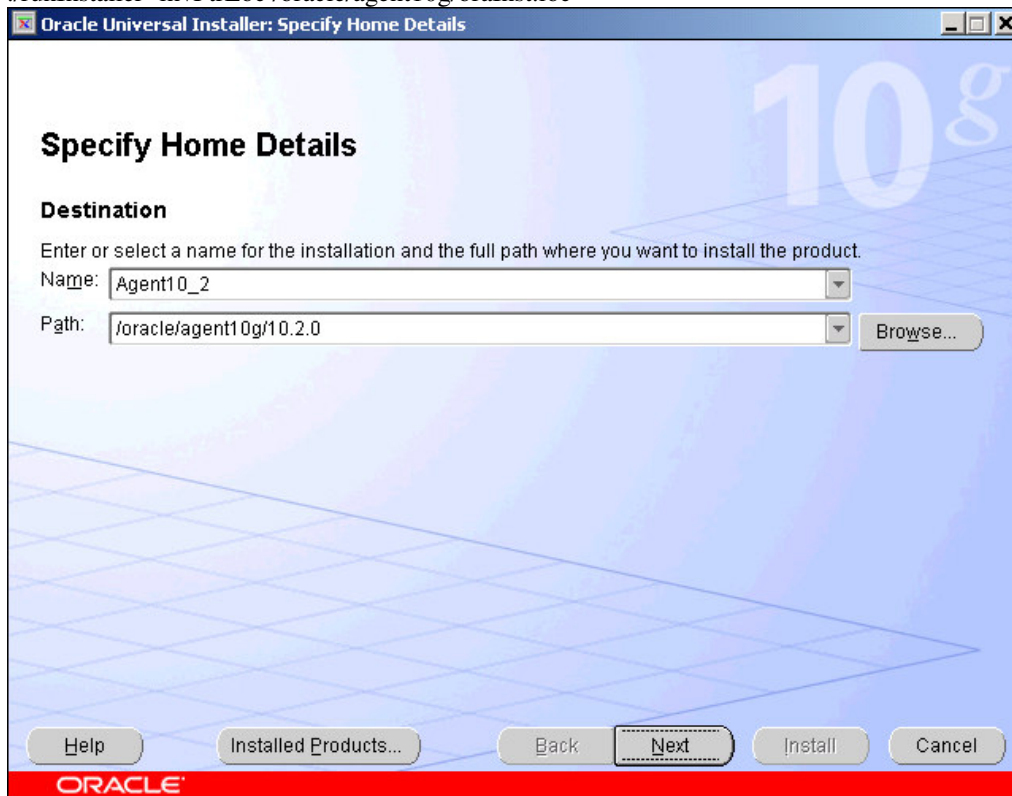
31 Upgrade Oracle Enterprise Manager Agents (HP-UX) von 10.2.0.2 auf 10.2.0.3

Download von p3731593_10203_HPUX-IA64.zip

unzip

ssh X11 forwarding oder DISPLAY Variable setzen

`./runInstaller -invPtrLoc /oracle/agent10g/oraInst.loc`



Oracle Universal Installer: Oracle Configuration Manager Registration

Oracle Configuration Manager Registration

☐ Enable Oracle Configuration Manager

Oracle Configuration Manager allows you to associate your configuration information with your Metalink account. When you log your service request with Oracle, you will be able to link your request with the pre-collected configuration data in this ORACLE_HOME.

Customer Identification Number (CSI):

Metalink Account Username:

Country Code:

Provide your CSI Number, Metalink Account and Country Code associated with your service agreement. To verify your information, press "Test Registration" button.

If a connection from your network to the public internet requires you to connect through a Proxy, use "Connection Settings".

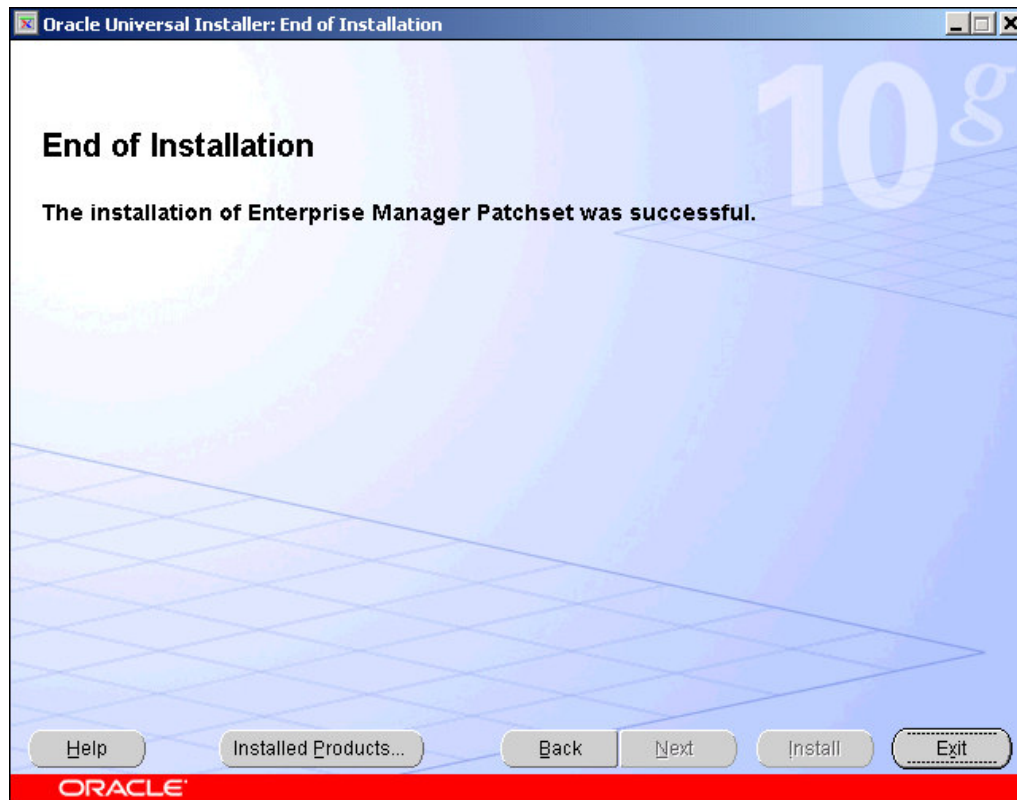
If you choose not to enable Oracle Configuration Manager at this time, you may refer to the Oracle Configuration Manager Installation and Administration Guide to complete the configuration at anytime in the future.

Oracle Universal Installer: Summary

Summary

Enterprise Manager Patchset 10.2.0.3.0

- Global Settings
 - Source: /var/adm/crash/oracle/3731593/Disk1/stage/products.xml
 - Oracle Home: /oracle/agent10g/10.2.0 (Agent10_2)
- Product Languages
 - English
- Space Requirements
 - /oracle/agent10g/ Required 53MB : Available 1.07GB
 - /tmp/ Required 29MB (only as temporary space) : Available 396MB
- Interim patch Deinstalls
 - Interim Patch# 5330513
 - Interim Patch# 5247276
- Reinstallations (19 products)
- Upgrades (15 products)
- New Installations (6 products)



32 Interim Patch 5365614 für HP-UX Agent 10.2.0.3

5365614 - AGENT PROCESS STATISTICS METRIC COLLECTION FAILURE --
PSTAT_GETFILE2/ERRNO3

```
$ORACLE_HOME/OPatch/opatch -invPtrLoc /oracle/agent10g/oraInst.loc  
apply  
  
$ORACLE_HOME/OPatch/opatch -invPtrLoc /oracle/agent10g/oraInst.loc  
lsinventory
```

33 Job MGMT_CNTR_TT.clean_up_old_ticket_recs löschen

SR-6498154.994:

Der Job wird mitinstalliert, steht aber auf "broken". Da die Broken-Job-Metrik sonst dauernd anzeigt, dass der Job broken ist, kann man diesen einfach löschen. Ist nur wichtig, wenn das Remedy-Ticket-System verwendet wird. Wird in 10.2.0.4 oder 11g gefixt sein