

# Oracle® Application Server Repository Creation Assistant

Installing the Oracle Application Server Metadata Repository into an Existing Database

10g (9.0.4) for Solaris Operating System (SPARC)

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You can choose to install the OracleAS Metadata Repository in an existing database, rather than having the installer create a new database. This document describes how to use the Oracle Application Server Repository Creation Assistant to install your OracleAS Metadata Repository into an existing database. It contains the following sections:

- [Section 1, "Overview"](#)
- [Section 2, "Database Requirements"](#)
- [Section 3, "Swap Space Requirement"](#)
- [Section 4, "Oracle Internet Directory Version"](#)
- [Section 6, "Starting OracleAS RepCA"](#)
- [Section 5, "Oracle Ultra Search Directory Updated"](#)
- [Section 7, "Installing OracleAS Metadata Repository in an Existing Database"](#)
- [Section 8, "Installing OracleAS Metadata Repository in a Real Application Clusters Database"](#)
- [Section 9, "Registering the OracleAS Metadata Repository with Oracle Internet Directory"](#)
- [Section 10, "Using the cleanMR Script to Drop Schemas and Tablespaces"](#)
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## 1 Overview

To install the OracleAS Metadata Repository in an existing database, you run a tool called the Oracle Application Server Repository Creation Assistant ("OracleAS RepCA"). This tool loads the OracleAS Metadata Repository data into an existing database.

CD-ROM: You can find OracleAS RepCA on the "OracleAS RepCA and Utilities" CD-ROM. It is not on Disk 1.



DVD: You can find OracleAS RepCA in the `repca_utilities` directory on the DVD.

## 2 Database Requirements

Verify that the database where you want to install the OracleAS Metadata Repository meets the requirements in the following areas:

- [Section 2.1, "Database Version"](#)
- [Section 2.2, "Standard Edition Databases: Additional Requirement"](#)
- [Section 2.3, "Initialization Parameters"](#)
- [Section 2.4, "Database Options"](#)
- [Section 2.5, "PL/SQL Packages"](#)
- [Section 2.6, "DBMS\\_LDAP Package"](#)
- [Section 2.7, "Password File Authentication"](#)
- [Section 2.8, "Schemas and Tablespaces"](#)
- [Section 2.9, "Registration with Oracle Internet Directory"](#)

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**Note:** If you want to use a database containing an Oracle E-Business Suite instance for your metadata repository, there will be some limitations in the functionality of your associated Oracle Application Server instance. You will also need to perform additional steps after running OracleAS RepCA before you can use the metadata repository. Refer to Oracle*MetaLink* Note 251627.1 (<http://metalink.oracle.com>) for more information.

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### 2.1 Database Version

You can install the OracleAS Metadata Repository in the following database versions:

**Table 1 Supported Database Versions**

Database Series	Supported Versions	See This Section for Details
Oracle9i Release 1 (9.0.1.x)	9.0.1.5 or later	<a href="#">Section 2.1.1, "Oracle9i Release 1 (9.0.1.x) Databases"</a>
Oracle9i Release 2 (9.2.x)	9.2.0.4 or later	<a href="#">Section 2.1.2, "Oracle9i Release 2 (9.2.x) Databases"</a>

To check the release of your database, query the `PRODUCT_COMPONENT_VERSION` view:

```
prompt> sqlplus "sys/password as sysdba"
SQL> select version from product_component_version
       where product like 'Oracle%i%';
```

*password* specifies the password for the SYS user.

### 2.1.1 Oracle9i Release 1 (9.0.1.x) Databases

If you have a 9.0.1.x database, ensure that its version is 9.0.1.5 or later.

You can upgrade to release 9.0.1.5 from earlier 9.0.1.x releases by applying the 9.0.1.5 patch set. You can download this patch set from *OracleMetaLink* (<http://metalink.oracle.com>).

To check the current patch level, you can query `sys.patch$`.

```
prompt> sqlplus "sys/password as sysdba"
SQL> select version from sys.patch$;
```

The command should return 9.0.1.5.

**Applying the 9.0.1.5 Patch Set:** If you will be using the database only for running the OracleAS Metadata Repository, you only need to run the following post-installation items:

- Run `catpatch.sql` with the database in single user mode.
- Run the upgrade scripts for Oracle Text.
- Run the scripts for upgrading the Java option in the database (`jvmusrc.sql`, `initxml.sql`, `xmlja.sql`).
- Run `utlrp.sql` to recompile PL/SQL packages.

All other post-installation steps in the 9.0.1.5 patch set are optional for the OracleAS Metadata Repository. You need to run them only if you use those options outside of Oracle Application Server or, in the case of the Real Application Clusters part of the patch set, if the database is a Real Application Clusters database.

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**Note:** Be sure you run the `catpatch.sql` script when applying the 9.0.1.5 patch set, as described in the README file for the patch set. Otherwise, you will encounter errors when OracleAS RepCA loads the metadata repository in your database.

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### 2.1.2 Oracle9i Release 2 (9.2.x) Databases

If you have a 9.2.x database, ensure that its version is 9.2.0.4 or later.

You can upgrade to release 9.2.0.4 from earlier 9.2.0.x releases by applying the 9.2.0.4 patch set. See patch set 3095277. You can download the patch set from *OracleMetaLink* (<http://metalink.oracle.com>).

**Applying the 9.2.0.4 patch set:** Only the following post-installation steps are required for running the OracleAS Metadata Repository:

- Make sure that the initialization (`init.ora`) parameters are set as specified, that SYSTEM tablespace has sufficient free space, and that `CLUSTER_DATABASE` environment variable is set if necessary.
- Run `catpatch.sql` with the database in single user mode (step 3c in the README file for the patch set).
- Run `utlrp.sql` (step 3h in the README file for the patch set).

- Run the Oracle Internet Directory patch only if you were running Oracle Internet Directory version 9.2.0.x. If Oracle Internet Directory has never been used with this database, you do not have to perform this step.

All other post-installation steps in the 9.2.0.4 patch set are optional for the OracleAS Metadata Repository. You need to run them only if you use those options outside of Oracle Application Server.

To check that you have run the `catpatch.sql` script, you can run the following command in SQL\*Plus:

```
prompt> sqlplus "sys/password as sysdba"
SQL> select comp_name, version, status from dba_registry
       where comp_id = 'CATPROC';
```

You should get the following results:

COMP_NAME	VERSION	STATUS
Oracle9i Packages and Types	9.2.0.4.0	Valid

## 2.2 Standard Edition Databases: Additional Requirement

If you are using the Standard Edition database, release 9.0.1.x or 9.2.0.x, you will not be able to use Oracle Internet Directory's multimaster replication feature (because this feature relies on ASR, which is available only on the Enterprise Edition database).

As an alternative, you can use the fan-out replication feature. See the *Oracle Internet Directory Administrator's Guide* for details.

## 2.3 Initialization Parameters

During installation, the database must have its initialization parameters set to the values specified in [Table 2](#).

After installation, you can change the values of most of these parameters to optimize performance, if necessary.

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**Note:** The value of the `db_block_size` parameter must be 8192 or greater. This parameter is set when the database was created and cannot be changed. If your database has a lower value for this parameter, this means that you cannot use this database for the metadata repository.

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### Checking Parameter Values

To check the values of the initialization parameters using SQL\*Plus, you can use the `show parameters` command:

```
prompt> sqlplus "sys/password as sysdba"
SQL> show parameters parameter_name
```

*password* specifies the password for the SYS user.

Alternatively, you can check the values by querying the `V$PARAMETER` view:

```
prompt> sqlplus "sys/password as sysdba"
SQL> select name,value from v$parameter;
```

## Changing Parameter Values

The method that you use to change a parameter's value depends on whether the parameter is static or dynamic, and on whether your database uses a parameter file or a server parameter file.

See the *Oracle9i Database Administrator's Guide* for details on parameter files, server parameter files, and how to change parameter values.

If your database uses a parameter file, you can change the parameter values using two different methods:

- You can edit the parameter file and restart the database. This method works for both static and dynamic parameters.
- To change the values of dynamic parameters, you can use the `alter system` command, but the new values persist only until the database is shut down. For example:

```
prompt> sqlplus "sys/password as sysdba"  
SQL> alter system set aq_tm_processes=9;
```

If your database uses a server parameter file, use the `alter system` command to change the parameter values. For static parameters, set the scope to `spfile`. You have to restart the database for the new value to take effect. For dynamic parameters, you can set the scope to `spfile`, `memory`, or `both`. For the values to persist, set the scope to `spfile` or `both`. For example:

```
prompt> sqlplus "sys/password as sysdba"  
SQL> alter system set aq_tm_processes=9 scope=both;
```

**Table 2 Initialization Parameters: Required Values**

Parameter	Required Value	Parameter Class	Notes
<code>db_block_size</code>	8192 or greater	Not changeable. See "Notes" column.	You cannot change the value of this parameter once the database has been created.
<code>aq_tm_processes</code>	1 or greater	Dynamic	You can change the value of this parameter after installation.
<code>open_cursors</code>	300 or greater	Dynamic in 9.0.2.x Static in 9.0.1.x	You can change the value of this parameter after installation.
<code>job_queue_processes</code>	1 or greater	Dynamic	You can change the value of this parameter after installation.
<code>db_cache_size</code>	150,994,944 (144 MB) or greater	Dynamic	You can change the value of this parameter after installation.

**Table 2 (Cont.) Initialization Parameters: Required Values**

Parameter	Required Value	Parameter Class	Notes
large_pool_size	0	Dynamic in 9.0.2.x Static in 9.0.1.x	When set to 0, the database uses the value from the shared_pool_size parameter instead (see next row).  You can change the value of this parameter after installation.
shared_pool_size	104,857,600 (100 MB) or greater	Dynamic	You can change the value of this parameter after installation.
java_pool_size	67,108,864 (64 MB) or greater	Static	You can change the value of this parameter after installation.
pga_aggregate_target	100,663,296 (96 MB) or greater	Dynamic	You can change the value of this parameter after installation.
query_rewrite_enabled	TRUE	Dynamic	Do not change this parameter after installation, because OracleAS Wireless requires this value.
query_rewrite_integrity	trusted or enforced	Dynamic	Do not change this parameter after installation, because OracleAS Wireless requires this value.
sessions	400 or greater	Static	You can change the value of this parameter after installation.

**Table 2 (Cont.) Initialization Parameters: Required Values**

Parameter	Required Value	Parameter Class	Notes
nls_length_ semantics	BYTE	Dynamic	This parameter is not checked by OracleAS RepCA. You have to check manually that this parameter is set to the supported value.  The CHAR value for this parameter is not supported.
max_commit_ propagation_delay	99 or lower	Static	This parameter applies only for Real Application Clusters databases.  This parameter is not checked by OracleAS RepCA. If you are using a Real Application Clusters database, you have to check manually that this parameter is set to a supported value.

## 2.4 Database Options

The database must have the following database options enabled:

**Table 3 Database Options**

Required Option	How to Check if the Option is Installed in the Database
OLAP Window Functions	To check if the database has these options, query the V\$OPTION view:
Parallel load	<pre>prompt&gt; sqlplus "sys/password as sysdba" SQL&gt; select * from v\$option;</pre> <p><i>password</i> specifies the password for the SYS user.</p>
Java	<pre>prompt&gt; sqlplus "sys/password as sysdba" SQL&gt; select count(*) from dba_objects where object_ type like 'JAVA%' and owner = 'SYS' and status = 'VALID';</pre> <p>The count returned should be greater than 0.</p>

**Table 3 (Cont.) Database Options**

Required Option	How to Check if the Option is Installed in the Database
Intermedia	<pre>prompt&gt; sqlplus "sys/password as sysdba" SQL&gt; select count(name) from sys.props\$       where name = 'EXPORT_VIEWS_VERSION';</pre> <p>The count returned should be greater than 0.</p>

## 2.5 PL/SQL Packages

The database must have the following PL/SQL packages installed:

**Table 4 Required Packages**

Required Package	How to Check if the Package is Installed in the Database
DBMS_DDL	Query the ALL_OBJECTS view. The following example checks for the DBMS_DDL package:
DBMS_LOCK	
DBMS_OUTPUT	<pre>prompt&gt; sqlplus "sys/password as sysdba" SQL&gt; select count(object_name) from all_objects where       object_name like</pre>
DBMS_REPUTIL	<pre>      'DBMS_DDL%' and status = 'VALID';</pre>
DBMS_SQL	
DBMS_STATS	Run the query for each package; replace DBMS_DDL with the name of the package. The count returned should be greater than 0.
DBMS_UTILITY	
UTL_FILE	
UTL_RAW	
DBMS_TEXT	<pre>prompt&gt; sqlplus "sys/password as sysdba" SQL&gt; select count(*) from dba_views where owner =       'CTXSYS' and view_name = 'CTX_VERSION';</pre> <p>The count should be greater than 0.</p>

## 2.6 DBMS\_LDAP Package

Check that your database contains the DBMS\_LDAP package, and that the package is valid. You need to reinstall the package if it is not valid.

1. Check that the version of the DBMS\_LDAP package is 2. The following SQL command must return 0.

```
prompt> sqlplus "sys/password as sysdba"
SQL> select dbms_ldap_util.check_interface_version('2') from dual;
```

```
DBMS_LDAP_UTIL.CHECK_INTERFACE_VERSION('2')
-----
0
```

If the command returns a different value, or if it returns an error such as:

The DBMS\_LDAP package supplied with this database doesn't support the version 2 interface used by 904 components.

you need to reload the package. Go to ["Reloading the DBMS\\_LDAP Package"](#) at the end of this section.

2. Check that the DBMS\_LDAP package is valid. The following SQL command must return 9.

a. Create a file containing the following lines. You can name the file anything you like (for example, `test_ldap.sql`).

```
select count(*) from dba_objects where
 ( object_name = 'DBMS_LDAP' and
 object_type = 'PACKAGE' and
 status = 'VALID' and owner = 'SYS'
 ) OR
 ( object_name = 'DBMS_LDAP' and
 object_type = 'PACKAGE BODY' and
 status = 'VALID' and owner = 'SYS'
 ) OR
 ( object_name = 'DBMS_LDAP_UTL' and
 object_type = 'PACKAGE' and
 status = 'VALID' and owner = 'SYS'
 ) OR
 ( object_name = 'DBMS_LDAP_UTL' and
 object_type = 'PACKAGE BODY' and
 status = 'VALID' and owner = 'SYS'
 ) OR
 ( object_name = 'DBMS_LDAP' and
 object_type = 'SYNONYM' and
 status = 'VALID' and owner = 'PUBLIC'
 ) OR
 ( object_name = 'DBMS_LDAP_UTL' and
 object_type = 'SYNONYM' and
 status = 'VALID' and owner = 'PUBLIC'
 ) OR
 ( object_name = 'DBMS_LDAP_API_FFI' and
 object_type = 'PACKAGE' and
 status = 'VALID' and owner = 'SYS'
 ) OR
 ( object_name = 'DBMS_LDAP_API_FFI' and
 object_type = 'PACKAGE BODY' and
 status = 'VALID' and owner = 'SYS'
 ) OR
 ( object_name = 'DBMS_LDAP_API_LIB' and
 object_type = 'LIBRARY' and
 status = 'VALID' and owner = 'SYS'
 );
```

b. Run the file in SQL\*Plus. For example, if you named the file `test_ldap.sql`, the command would look like the following:

```
prompt> sqlplus "sys/password as sysdba"
SQL> @test_ldap.sql
```

```
      COUNT(*)
-----
          9
```

If the command returns a value other than 9, you need to reload the package.

## Reloading the DBMS\_LDAP Package

1. Check that the following files exist in the `ORACLE_HOME/rdbms/admin` directory:

- `catldap.sql`
- `dbmsldap.sql`
- `prvtldap.plb`
- `prvtldh.plb`

2. Using SQL\*Plus, run the `catldap.sql` command as the SYS user.

```
prompt> cd $ORACLE_HOME/rdbms/admin
prompt> sqlplus "sys/password as sysdba"
SQL> @catldap.sql
```

## 2.7 Password File Authentication

The database must be set up to use password file authentication. For more information on password file authentication, see the *Oracle9i Database Administrator's Guide*.

Password file authentication is required only for running the OracleAS RepCA. It is not required once the metadata repository has been installed.

You can check if the database is set up to use password file authentication, in one of two ways.

- Look up the value of the `remote_login_passwordfile` initialization parameter by running the following command in SQL\*Plus:

```
prompt> sqlplus "sys/password as sysdba"
SQL> show parameters remote_login_passwordfile
NAME                                TYPE                                VALUE
-----                                -                                -
remote_login_passwordfile           string                              EXCLUSIVE
```

The value of the `remote_login_passwordfile` initialization parameter must be either `EXCLUSIVE` or `SHARED`. If the parameter has a different value or if it is not defined, the database is not set up for password file authentication.

- Try connecting to the database as `sysdba` through a SQL\*Net connection.

```
prompt> sqlplus "sys/password@sqlnet_dbname as sysdba"
```

`sqlnet_dbname` denotes the entry for the database in the `tnsnames.ora` file. If the database is not set up for password authentication, you will not be able to connect.

To set up a database for password file authentication:

1. Create a password file using the `orapwd` command (all on one line).

```
prompt> $ORACLE_HOME/bin/orapwd file=fullpath_to_pwfile password=password
entries=maxUsers
```

Values you need to provide:

*fullpath\_to\_pwfile* - Enter the full path to the file where the password information will be written. The filename must be *orapwsid*. Typically, the password file is stored in the `ORACLE_HOME/dbs` directory.

*password* - Set the password for the SYS user.

*maxUsers* - Specify the maximum number of users that the file can contain.

The following example sets the password file for a database whose name is "prodmeta":

```
prompt> $ORACLE_HOME/bin/orapwd
        file=/opt/oracle/db92/OraHome1/dbs/orapwprodmeta
        password=topsecret entries=9
```

2. Set the `remote_login_passwordfile` initialization parameter to `EXCLUSIVE`. You can set it to `SHARED` if you want to use the same password file for multiple databases. If you have a Real Application Clusters database, you must set the parameter to `EXCLUSIVE`.
3. Restart the database.

## 2.8 Schemas and Tablespaces

The OracleAS RepCA installs the schemas and tablespaces listed in [Table 8](#) in your existing database. Ensure that the database does not contain schemas and tablespaces of the same name.

### 2.8.1 Schema Name Already in Use

If the OracleAS RepCA finds even one schema of the same name in the existing database, it asks for confirmation before it drops and recreates the schema with new data.

If you want to save the data in the schema, do not proceed. You can then back up the data you want to save, restore it under a different schema, and rerun the OracleAS RepCA. This time, you can tell it to drop and recreate the schema.

To get a list of existing schema names in the database, query the `ALL_USERS` view:

```
prompt> sqlplus "sys/password as sysdba"
SQL> select username from all_users;
```

*password* specifies the password for the SYS user.

See [Section 10, "Using the cleanMR Script to Drop Schemas and Tablespaces"](#) if you want to run a script to remove schemas and tablespaces used by OracleAS Metadata Repository.

### 2.8.2 Tablespace Name Already in Use

If the OracleAS RepCA finds even one tablespace of the same name in the existing database, it cannot continue. It displays an error dialog. In this case:

1. Dismiss the error dialog and exit the OracleAS RepCA.
2. Back up the data in the tablespace (if desired).
3. Drop the tablespace.
4. Rerun the OracleAS RepCA.

To get a list of existing tablespace names in the database, query the V\$TABLESPACE view:

```
prompt> sqlplus "sys/password as sysdba"  
SQL> select name from v$tablespace;
```

*password* specifies the password for the SYS user.

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**Note:** If you run the OracleAS RepCA and cancel it before it completes, it might have created the tablespaces listed in [Table 8](#) in your database. You have to drop these tablespaces before you can rerun OracleAS RepCA.

See [Section 10, "Using the cleanMR Script to Drop Schemas and Tablespaces"](#) if you want to run a script to remove schemas and tablespaces used by OracleAS Metadata Repository.

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To drop a tablespace, you can run either the `cleanMR` script or SQL statements manually. See [Section 10, "Using the cleanMR Script to Drop Schemas and Tablespaces"](#) for information about the script.

To run SQL statements manually, perform the steps below. The order of the tasks is important. If you delete the data files first, then you cannot drop the tablespace. If the tablespace exists, you cannot rerun OracleAS RepCA.

1. Use SQL\*Plus and log into the database as the SYS user.

```
prompt> sqlplus "sys/password as sysdba"
```

2. Drop the schemas in the tablespace.

```
SQL> drop user schema_name cascade;
```

3. Drop the tablespace.

```
SQL> drop tablespace tablespace_name including contents cascade  
constraints;  
SQL> exit;
```

4. Delete the data files (the .dbf files) associated with the tablespace.

### 2.8.3 Tablespace Sizes

If you are using files (as opposed to raw devices) for tablespaces, select the size for each tablespace that the OracleAS RepCA will create.

OracleAS RepCA offers three choices for sizes (see [Table 5](#)). These choices represent light usage, moderate usage, and heavy usage of the component. If you have applications that use a component heavily, you should select the biggest size for the component's tablespaces. You should select the minimum size for components that you do not plan on using with this repository.

The tablespace sizes are initial sizes. Extensive use of the component may increase the size of the tablespaces because they are set to `AUTOEXTEND`.

**Table 5 Initial Sizes for Tablespaces (in MB)**

Component	Tablespace	Small	Medium	Large
OracleAS Portal	PORTAL	75	100	150

**Table 5 (Cont.) Initial Sizes for Tablespaces (in MB)**

<b>Component</b>	<b>Tablespace</b>	<b>Small</b>	<b>Medium</b>	<b>Large</b>
OracleAS Portal	PORTAL_DOC	25	40	50
OracleAS Portal	PORTAL_IDX	30	50	60
OracleAS Portal	PORTAL_LOG	30	50	60
OracleAS Single Sign-On	IAS_META	200	300	500
OracleAS Wireless				
Oracle Ultra Search				
Oracle Workflow				
INTERNET_ APPSEVER_ REGISTRY (schema)				
OracleAS Discoverer	DISCO_PTM5_META	5	10	15
OracleAS Discoverer	DISCO_PTM5_CACHE	5	10	15
OracleAS Distributed Configuration Management (DCM)	DCM	50	100	200
OracleAS Syndication Services	DSGATEWAY_TAB	25	35	45
OracleAS Web Clipping Support	WCERSYS_TS	35	45	55
OracleAS ProcessConnect	IP_RT	50	75	90
OracleAS ProcessConnect	IP_DT	60	75	90
OracleAS ProcessConnect	IP_IDX	20	40	60
OracleAS ProcessConnect	IP_LOB	20	40	60
OracleAS Certificate Authority	OCATS	15	35	55
OracleAS UDDI	UDDISYS_TS	35	50	65
Oracle Internet Directory	OLTS_ATTRSTORE	10	15	20
Oracle Internet Directory	OLTS_BATTRSTORE	10	15	20
Oracle Internet Directory	OLTS_CT_STORE	10	15	20
Oracle Internet Directory	OLTS_DEFAULT	10	15	20
Oracle Internet Directory	OLTS_SVRMGSTORE	10	15	20

If your existing database uses raw devices, you do not need to select the sizes for the tablespaces. However, you need to verify that the sizes of the raw devices are adequate for the components (see [Table 6](#) and [Table 7](#)). If you are planning on

using a component extensively and your database uses raw devices, make sure the raw device for the tablespace has even more space available.

**Table 6 Minimum Size for System Tablespaces**

<b>TableSpace</b>	<b>Minimum Size</b>
SYSTEM tablespace	1024 MB
TEMP tablespace	128 MB
UNDOTBS1 tablespace	256 MB
UNDOTBS2 tablespace	256 MB
DRSYS tablespace	64 MB

**Table 7 Raw Devices for the OracleAS Metadata Repository**

<b>Raw Device for</b>	<b>Minimum Size</b>	<b>Recommended Name</b>
PORTAL tablespace	128 MB	<i>dbname_raw_portal_128m</i>
PORTAL_DOC tablespace	64 MB	<i>dbname_raw_portaldoc_64m</i>
PORTAL_IDX tablespace	64 MB	<i>dbname_raw_portalidx_64m</i>
PORTAL_LOG tablespace	64 MB	<i>dbname_raw_portallog_64m</i>
DCM tablespace	256 MB	<i>dbname_raw_dcm_256m</i>
OCATS tablespace	64 MB	<i>dbname_raw_ocats_64m</i>
DISCO_PTM5_CACHE tablespace	64 MB	<i>dbname_raw_discoptm5cache_64m</i>
DISCO_PTM5_META tablespace	64 MB	<i>dbname_raw_discoptm5meta_64m</i>
DSGATEWAY_TAB tablespace	64 MB	<i>dbname_raw_dsgatewaytab_64m</i>
WCRSYS_TS tablespace	64 MB	<i>dbname_raw_wcrsys_64m</i>
UDDISYS_TS tablespace	64 MB	<i>dbname_raw_uddisys_64m</i>
OLTS_ATTRSTORE tablespace	128 MB	<i>dbname_raw_oltsattrstore_128m</i>
OLTS_BTTRSTORE tablespace	64 MB	<i>dbname_raw_oltsbttrstore_64m</i>
OLTS_CT_STORE tablespace	256 MB	<i>dbname_raw_oltsctstore_256m</i>
OLTS_DEFAULT tablespace	128 MB	<i>dbname_raw_oltsdefault_128m</i>
OLTS_SVRMGSTORE tablespace	64 MB	<i>dbname_raw_oltssvrmgstore_64m</i>
IP_DT tablespace	128 MB	<i>dbname_raw_ipdt_128m</i>
IP_RT tablespace	128 MB	<i>dbname_raw_iprt_128m</i>
IP_LOB tablespace	128 MB	<i>dbname_raw_iplob_128m</i>

**Table 7 (Cont.) Raw Devices for the OracleAS Metadata Repository**

Raw Device for	Minimum Size	Recommended Name
IP_IDX tablespace	128 MB	<i>dbname_raw_ipidx_128m</i>
IAS_META tablespace	256 MB	<i>dbname_raw_iasmeta1_256m</i>

For information on using raw devices, see the database documentation.

## 2.8.4 List of Schemas and Tablespaces

Table 8 lists the schemas and tablespaces in the OracleAS Metadata Repository.

**Table 8 Schemas and Tablespaces**

Component	Schema	Tablespace	Default Database File
OracleAS Portal	PORTAL	PORTAL	portal.dbf
OracleAS Portal	PORTAL	PORTAL_DOC	ptldoc.dbf
OracleAS Portal	PORTAL	PORTAL_IDX	ptlidx.dbf
OracleAS Portal	PORTAL	PORTAL_LOG	ptllog.dbf
OracleAS Portal	PORTAL_APP	PORTAL	portal.dbf
OracleAS Portal	PORTAL_DEMO	PORTAL	portal.dbf
OracleAS Portal	PORTAL_PUBLIC	PORTAL	portal.dbf
OracleAS Single Sign-On	ORASSO	IAS_META	ias_meta01.dbf
OracleAS Single Sign-On	ORASSO_PA	IAS_META	ias_meta01.dbf
OracleAS Single Sign-On	ORASSO_DS	IAS_META	ias_meta01.dbf
OracleAS Single Sign-On	ORASSO_PS	IAS_META	ias_meta01.dbf
OracleAS Single Sign-On	ORASSO_PUBLIC	IAS_META	ias_meta01.dbf
OracleAS Wireless	WIRELESS	IAS_META	ias_meta01.dbf
Oracle Workflow	OWF_MGR	IAS_META	ias_meta01.dbf
OracleAS Discoverer	DISCOVERER5	DISCO_PTM5_META	discopl1m1.dbf
OracleAS Discoverer	DISCOVERER5	DISCO_PTM5_CACHE	discopl1c1.dbf
OracleAS Distributed Configuration Management (DCM)	DCM	DCM	dcm.dbf
OracleAS Syndication Services	DSGATEWAY	DSGATEWAY_TAB	oss_sys01.dbf
OracleAS Web Clipping Support	WCRSYS	WCRSYS_TS	wcrsys01.dbf

**Table 8 (Cont.) Schemas and Tablespaces**

Component	Schema	Tablespace	Default Database File
OracleAS ProcessConnect	IP	IP_DT	ip_dt.dbf
OracleAS ProcessConnect	IP	IP_RT	ip_rt.dbf
OracleAS ProcessConnect	IP	IP_LOB	ip_lob.dbf
OracleAS ProcessConnect	IP	IP_IDX	ip_idx.dbf
OracleAS Certificate Authority	OCA	OCATS	oca.dbf
OracleAS Certificate Authority	ORAOCA_PUBLIC	OCATS	oca.dbf
OracleAS UDDI	UDDISYS	UDDISYS_TS	uddisys01.dbf
Oracle Internet Directory	ODS	OLTS_ATTRSTORE	attrs1_oid.dbf
Oracle Internet Directory	ODS	OLTS_ BATSTORE	battr1_oid.dbf
Oracle Internet Directory	ODS	OLTS_CT_STORE	gcats1_oid.dbf
Oracle Internet Directory	ODS	OLTS_DEFAULT	gdefault1_oid.dbf
Oracle Internet Directory	ODS	OLTS_ SVRMGSTORE	svrmg1_oid.dbf
Oracle Ultra Search	WKSYS	IAS_META	ias_meta01.dbf
Oracle Ultra Search	WKPROXY	IAS_META	ias_meta01.dbf
Oracle Ultra Search	WK_TEST	IAS_META	ias_meta01.dbf
Metadata Repository Version	INTERNET_ APPSERVER_ REGISTRY	IAS_META	ias_meta01.dbf

## 2.9 Registration with Oracle Internet Directory

Ensure that the existing database is not already registered with Oracle Internet Directory. You cannot register a database that is already registered with Oracle Internet Directory.

To check if a database is already registered with Oracle Internet Directory, you have to look in Oracle Internet Directory:

1. Connect to Oracle Internet Directory using Oracle Directory Manager.

- a. Start up Oracle Directory Manager.

```
prompt> $ORACLE_HOME/bin/oidadmin
```

- b. In the Connect screen, enter the connect information. Log in as the Oracle Internet Directory superuser (cn=orcladmin).

2. Check to see if your database is registered with Oracle Internet Directory. Expand these entries:

Expand "Entry Management".

Expand "cn=OracleContext".

If your database is registered with Oracle Internet Directory, you would see an entry called "cn=*your\_database\_name*".

To remove the registration, see step 2 in [Section 11, "Cleaning Up a Failed Registration or Deregistering a Metadata Repository"](#).

3. Check to see if your database has a metadata repository that is registered with Oracle Internet Directory. Expand these entries:

Expand "Entry Management".

Expand "cn=OracleContext".

Expand "cn=Products".

Expand "cn=IAS".

Expand "cn=IAS Infrastructure Databases".

If your database has a metadata repository that is registered with Oracle Internet Directory, you would see an entry called "orclReferenceName=*your\_database\_name*".

To remove the registration, see step 3 in [Section 11, "Cleaning Up a Failed Registration or Deregistering a Metadata Repository"](#).

### 3 Swap Space Requirement

You must have at least 512 MB of available swap space. See "Swap space" in Chapter 4 of the *Oracle Application Server 10g Installation Guide* for information on how to check and increase it, if necessary.

### 4 Oracle Internet Directory Version

If you plan to register the metadata repository with Oracle Internet Directory, the Oracle Internet Directory must be version 9.0.2.x, 10g (9.0.4), or 9.2.0.x.

To check the Oracle Internet Directory version, run the following command:

```
prompt> oidldapd -version
oidldapd: Release 9.2.0.1.0 - Production on Fri Feb 28 09:26:53 2003
(c) Copyright 2001 Oracle Corporation. All rights reserved.
```

The `oidldapd` command can be found in the `ORACLE_HOME/bin` directory, where `ORACLE_HOME` is the root directory of Oracle Application Server containing Oracle Internet Directory.

### 5 Oracle Ultra Search Directory Updated

OracleAS RepCA replaces the `ultrasearch` directory in the database's Oracle home directory with a new version. It renames the old version of the directory to `ultrasearch_timestamp`.

## 6 Starting OracleAS RepCA

The OracleAS RepCA is a wizard that enables you to install the OracleAS Metadata Repository in an existing database.

---

---

**Note:** OracleAS RepCA is on the "OracleAS RepCA and Utilities" CD-ROM. It is **not** on Oracle Application Server Disk 1.

On the DVD, it is located in the `repca_utilities` directory.

---

---

1. You run the OracleAS RepCA on the computer where the database is installed. The tool needs to access the binaries in the database's Oracle home.

Ensure the listener for the existing database and the database itself are up and running before you start the OracleAS RepCA.

2. If your computer does not mount CD-ROMs or DVDs automatically, you need to set the mount point manually. See Section 5.14, "Setting the Mount Point for the CD-ROM or DVD" in the *Oracle Application Server 10g Installation Guide* for details.
3. Insert the "OracleAS RepCA and Utilities" CD-ROM into the CD-ROM drive, or insert the DVD into the DVD drive.
4. Start up OracleAS RepCA from the CD-ROM or DVD:

```
CD-ROM: prompt> mount_point/repCA/runRepca [parameters]
DVD:    prompt> mount_point/repca_utilities/runRepca [parameters]
```

The `runRepca` command accepts the following parameters.

**Table 9 Parameters for the runRepca Command**

Parameter	Required or Optional	Description
<code>-OH oracle_home</code>	Required	Specifies the full path to the Oracle home directory of the database where you want to install the metadata repository. If you do not specify this parameter, OracleAS RepCA prompts you to enter it.
<code>-LOGDIR logdir</code>	Optional	Specifies the full path to the directory where OracleAS RepCA can write log files. If not specified, OracleAS RepCA writes the log files to the <code>ORACLE_HOME/assistants/repca/log</code> directory. Be sure you have write permission for the log directory.
<code>-REGISTER</code>	Optional	Specifies that OracleAS RepCA should only register the metadata repository with Oracle Internet Directory. It will not install schemas into the database.
<code>-RAC</code>	Optional	Specifies that the database is a Real Application Clusters database.
<code>-HELP</code>	Optional	Displays help for the parameters.

Example:

```
runRepca -OH /opt/oracle/oradb -LOGDIR /opt/oracle/repca/logs
```

## 7 Installing OracleAS Metadata Repository in an Existing Database

To install the OracleAS Metadata Repository in an existing non-Real Application Clusters database, perform the steps in this section. To install the OracleAS Metadata Repository in a Real Application Clusters database, see [Section 8, "Installing OracleAS Metadata Repository in a Real Application Clusters Database"](#).

1. Ensure that the database meets the requirements listed in [Section 2, "Database Requirements"](#).
2. Start up the OracleAS RepCA on the computer where the database is installed. See [Section 6, "Starting OracleAS RepCA"](#). The parameters that you need in this case are `-OH` and `-LOGDIR`, if you want to specify a different log directory. For example:

```
runRepca -OH /opt/oracle/oradb -LOGDIR /opt/oracle/repca/logs
```

3. Follow the screens:

**Table 10 Steps for Installing OracleAS Metadata Repository in an Existing Database**

Step	Screen	Action
1.	Welcome	Click <b>Next</b> .
2.	Specify Database Connect	Enter connect information for the existing database. <b>SYS Password:</b> Enter the password for the SYS user. <b>Hostname and Port:</b> Enter the name of the computer and the port number for the database. Use the format: <i>hostname:port</i> . If your middle tier instances are located in a different domain, you need to append the domain name to the hostname. Example 1 (same domain): <code>myhost:1521</code> Example 2 (different domain): <code>myhost.mydomain.com:1521</code> <b>Service Name:</b> Enter the service name of the database. Note that the service name must include the database domain name. Example: <code>asdb.mydomain.com</code> Click <b>Next</b> .

**Table 10 (Cont.) Steps for Installing OracleAS Metadata Repository in an Existing Database**

Step	Screen	Action
3.	Specify Tablespace Information	<p><b>Use Same Directory for All Tablespaces:</b> Select this option if you want to place all the files for all the tablespaces in the same directory. Specify the directory in the field below this option. Ensure that the directory has enough free space.</p> <p><b>Use Individual Directories for Each Tablespace:</b> Select this option if you want to place the files for the tablespaces in different directories.</p> <p><b>Tablespaces:</b> Expand the tree to view the tablespaces for each component. Select a tablespace to view or edit its associated datafile or size.</p> <p><b>Size:</b> Select the largest size for a tablespace if you have applications that use the component heavily. If not, select the smallest size.</p> <p><b>Filename:</b> Enter the file name for the database file. Example: portal.dbf</p> <p><b>Directory:</b> Enter the directory where you want to put the database file for the tablespace. You can click the "..." button to browse your file system.</p> <p>Example (Solaris): /opt/oracle/dbfiles/            Example (Windows): C:\oracle\dbfiles\            Click <b>Next</b>.</p>
4.	Register with Oracle Internet Directory	<p>If you already have an Oracle Internet Directory and know its connect information, select <b>Register Now</b> and enter the name of the computer where Oracle Internet Directory is running and the port number.</p> <p><b>Use Only SSL Connections with this Oracle Internet Directory:</b> Select this option if you want OracleAS RepCA to connect to Oracle Internet Directory using SSL when performing the registration.</p> <p>If you do not have an Oracle Internet Directory, or do not know its connect information, select <b>Register Later</b>.</p> <p>Click <b>Next</b>.</p>
5.	Specify Login for Oracle Internet Directory	<p>This screen appears if you selected Register Now in the previous screen.</p> <p>Enter the Username and Password to log in to Oracle Internet Directory. The user must belong to the iASAdmins group. You can use the user's simple name (for example, jdoe) or the DN (for example, cn=orcladmin).</p> <p>If your Oracle Internet Directory contains more than one realm, you need to enter the realm that contains the specified user.</p> <p>Click <b>Next</b>.</p>
6.	Loading Repository	The OracleAS RepCA creates and populates the tablespaces and schemas.
7.	Finish	Click <b>Finish</b> to exit OracleAS RepCA.

4. Unlock the dcm schema and set its password. This step is required only if (1) you want to use the metadata repository **only** for database clustering of

middle tier instances **and** (2) you did not register the metadata repository with Oracle Internet Directory.

- a. Set the ORACLE\_HOME environment variable to point to the full path of the directory where the database is installed.
- b. Set the ORACLE\_SID environment variable to the database's SID.
- c. Unlock the dcm schema and set its password using SQL\*Plus.

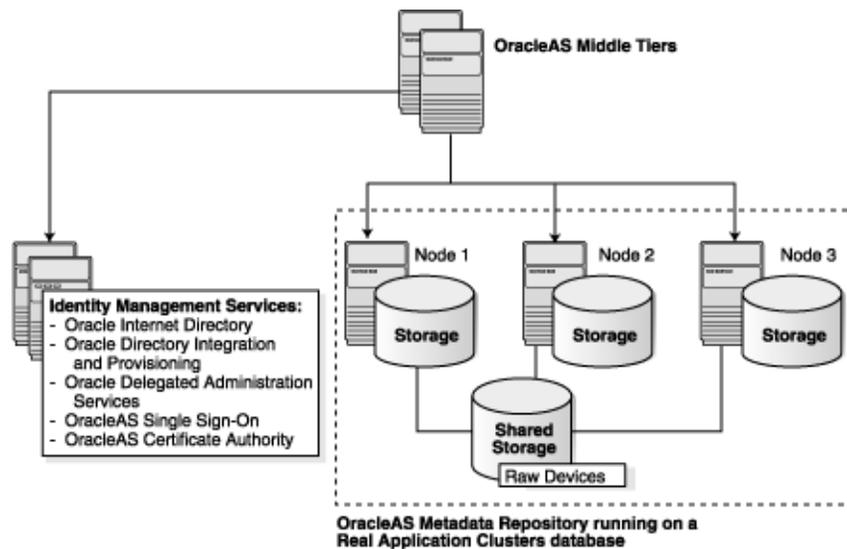
The `alter user` command below sets the password to "welcome1", but you can set it to any value.

```
prompt> $ORACLE_HOME/bin/sqlplus "sys/password as sysdba"
SQL> alter user dcm identified by welcome1 account unlock;
```

## 8 Installing OracleAS Metadata Repository in a Real Application Clusters Database

This section describes an environment that uses Real Application Clusters (Figure 1). In this environment, the OracleAS Infrastructure 10g components are installed separately, as described in Table 11.

**Figure 1 OracleAS Infrastructure 10g with the OracleAS Metadata Repository in a Real Application Clusters Database**



**Table 11 OracleAS Infrastructure 10g with Real Application Clusters**

Component	Where Installed
OracleAS Metadata Repository	Installed in an existing Real Application Clusters database.
Identity Management components	Installed on non-clustered computers.

## 8.1 Overview of Installation Steps

---

---

**Note:** You need an existing Real Application Clusters database to create this environment.

You **cannot** use the installer to create a new Real Application Clusters database containing the OracleAS Metadata Repository.

---

---

To create this environment, install Oracle Application Server as follows:

1. Install OracleAS Metadata Repository in the existing Real Application Clusters database.

You use OracleAS RepCA to do this. See [Section 8.2, "Installation Steps"](#) for details.

---

---

**Note:** Do not register the OracleAS Metadata Repository with Oracle Internet Directory, because you have not installed Oracle Internet Directory yet.

---

---

2. Install the Identity Management components on non-clustered computers.

You can install all the Identity Management components on a single computer, or you can distribute them over multiple computers. See [Section 6.20, "Installing Identity Management Components Only \(Including Oracle Internet Directory\)"](#) in the *Oracle Application Server 10g Installation Guide* for details.

When the installer prompts for the database hostname in the "Specify Metadata Repository Login and Connect Information" screen, enter all the node names in the Real Application Clusters, plus the port numbers for each node. Use the format *node:port*. Separate the pairs with a comma character.

For example, if you have three nodes (named *node1*, *node2*, and *node3*) in the cluster, and the listener listens on port 1521 for all nodes, then you would enter:

```
node1:1521, node2:1521, node3:1521
```

3. Install Oracle Application Server middle tiers.

## 8.2 Installation Steps

To install the OracleAS Metadata Repository in a Real Application Clusters database:

1. Ensure that the database meets the requirements listed in [Section 2, "Database Requirements"](#).
2. Create raw devices for the OracleAS Metadata Repository.

See [Table 7](#) for a list of tablespaces for which you have to create raw devices, and their minimum sizes.

The command to create raw devices is specific to the volume manager you are using. For example, if you using VERITAS Volume Manager, the command is `vxassist`.

**3. Create a file to map the tablespaces to your raw devices.**

Each line in the file has the following format:

```
tablespace_name=raw_device_file_path
```

You can use the following sample file, replacing the raw device file paths with your values. Append a "1" to the tablespace names, as shown in the sample file.

```
PORTAL1=/dev/vx/rdisk/oracle/mydb_raw_portal_128m
PORTAL_DOC1=/dev/vx/rdisk/oracle/mydb_raw_portal_doc_64m
PORTAL_IDX1=/dev/vx/rdisk/oracle/mydb_raw_portal_idx_64m
PORTAL_LOG1=/dev/vx/rdisk/oracle/mydb_raw_portal_log_64m
IAS_META1=/dev/vx/rdisk/oracle/mydb_raw_ias_meta_256m
DISCO_PTM5_META1=/dev/vx/rdisk/oracle/mydb_raw_disco_meta_64m
DISCO_PTM5_CACHE1=/dev/vx/rdisk/oracle/mydb_raw_disco_cache_64m
DCM1=/dev/vx/rdisk/oracle/mydb_raw_dcm_256m
DSGATEWAY_TAB1=/dev/vx/rdisk/oracle/mydb_raw_synd_64m
WCRSYS_TS1=/dev/vx/rdisk/oracle/mydb_raw_clip_64m
IP_DT1=/dev/vx/rdisk/oracle/mydb_raw_ip_dt_128m
IP_RT1=/dev/vx/rdisk/oracle/mydb_raw_ip_rt_128m
IP_LOB1=/dev/vx/rdisk/oracle/mydb_raw_ip_lob_128m
IP_IDX1=/dev/vx/rdisk/oracle/mydb_raw_ip_idx_128m
OCATS1=/dev/vx/rdisk/oracle/mydb_raw_oca_64m
UDDISYS_TS1=/dev/vx/rdisk/oracle/mydb_raw_uddi_64m
OLTS_ATTRSTORE1=/dev/vx/rdisk/oracle/mydb_raw_olts_attr_128m
OLTS_BATTRSTORE1=/dev/vx/rdisk/oracle/mydb_raw_olts_battr_64m
OLTS_CT_STORE1=/dev/vx/rdisk/oracle/mydb_raw_olts_ct_store_256m
OLTS_DEFAULT1=/dev/vx/rdisk/oracle/mydb_raw_olts_default_128m
OLTS_SVRMGSTORE1=/dev/vx/rdisk/oracle/mydb_raw_olts_svrmgstore_64m
```

See [Section 2.8, "Schemas and Tablespaces"](#) for a list of tablespaces and schemas in the OracleAS Metadata Repository.

When you run OracleAS RepCA, it reads this file and populates the Specify Tablespace Information screen with the data. You just need to confirm the data on that screen.

If you do not create this file, you can still run the OracleAS RepCA to install the OracleAS Metadata Repository in a Real Application Clusters database. On the screen where OracleAS RepCA would have displayed the data read from the file, it leaves the fields blank, and you need to enter the data manually.

**4. Point the DBCA\_RAW\_CONFIG environment variable to the file.**

For example, if you saved the file as `/opt/oracle/repca/tablespace_map.txt`, then you would set the environment variable as follows:

```
setenv DBCA_RAW_CONFIG /opt/oracle/repca/tablespace_map.txt
```

**5. Start up the OracleAS RepCA on the computer where the database is installed. See [Section 6, "Starting OracleAS RepCA"](#). The parameters that you need in this case are `-OH`, `-RAC`, and `-LOGDIR`, if you want to specify a different log directory. For example:**

```
runRepca -OH /opt/oracle/oradb -RAC -LOGDIR /opt/oracle/repca/logs
```

6. Follow the screens:

**Table 12 Steps for Installing OracleAS Metadata Repository in an Existing Real Application Clusters Database**

Screen	Action
1. Welcome	Click <b>Next</b> .
2. Specify Database Connect	<p>Enter connect information for the existing database.</p> <p><b>SYS Password:</b> Enter the password for the SYS user.</p> <p><b>Hostname and Port:</b> Enter the name of the computer and the port number for the database. Use the format: <i>hostname:port</i>. If your middle tier instances are located in a different domain, you need to append the domain name to the hostname.</p> <p>Example 1 (same domain): <i>myhost:1521</i></p> <p>Example 2 (different domain): <i>myhost.mydomain.com:1521</i></p> <p><b>Service Name:</b> Enter the service name of the database. Note that the service name must include the database domain name.</p> <p>Example: <i>asdb.mydomain.com</i></p> <p>Click <b>Next</b>.</p>
3. Specify Tablespace Information	This screen displays values read from the file pointed to by the DBCA_RAW_CONFIG environment variable. Correct the values, if necessary, and click <b>Next</b> .
4. Register with Oracle Internet Directory	<p>If you already have an Oracle Internet Directory and know its connect information, select <b>Register Now</b> and enter the name of the computer where Oracle Internet Directory is running and the port number.</p> <p><b>Use Only SSL Connections with this Oracle Internet Directory:</b> Select this option if you want OracleAS RepCA to connect to Oracle Internet Directory using SSL when performing the registration.</p> <p>If you do not have an Oracle Internet Directory, or do not know its connect information, or plan to use the OracleAS Metadata Repository only for OracleAS Cluster, select <b>Register Later</b>.</p> <p>Click <b>Next</b>.</p>
5. Specify Login for Oracle Internet Directory	<p>This screen appears if you selected Register Now in the previous screen.</p> <p>Enter the Username and Password to log in to Oracle Internet Directory. The user must belong to the iASAdmins group. You can use the user's simple name (for example, <i>jdoe</i>) or the DN (for example, <i>cn=orcladmin</i>).</p> <p>If your Oracle Internet Directory contains more than one realm, you need to enter the realm that contains the specified user.</p> <p>Click <b>Next</b>.</p>
6. Loading Repository	The OracleAS RepCA creates and populates the tablespaces and schemas.
7. Finish	Click <b>Finish</b> to exit.

7. Unlock the dcm schema and set its password. This step is required only if (1) you want to use the metadata repository **only** for database clustering of

middle tier instances **and** (2) you did not register the metadata repository with Oracle Internet Directory.

- a. Set the ORACLE\_HOME environment variable to point to the full path of the directory where the database is installed.
- b. Set the ORACLE\_SID environment variable to the database's SID.
- c. Unlock the dcm schema and set its password using SQL\*Plus.

The `alter user` command below sets the password to "welcome1", but you can set it to any value.

```
prompt> $ORACLE_HOME/bin/sqlplus "sys/password as sysdba"  
SQL> alter user dcm identified by welcome1 account unlock;
```

## 9 Registering the OracleAS Metadata Repository with Oracle Internet Directory

If you did not register the OracleAS Metadata Repository with an Oracle Internet Directory when you installed it, you can run the OracleAS RepCA again just to do the registration. When you run the OracleAS RepCA with the `-REGISTER` option, it does not install any schemas or tablespaces in the database.

You cannot use the Database Configuration Assistant (DBCA) to register the OracleAS Metadata Repository with Oracle Internet Directory if the metadata repository is in a Real Application Clusters database. You must use OracleAS RepCA to do the registration.

---

---

### Note:

- When using OracleAS RepCA to register a Metadata Repository with Oracle Internet Directory, make sure that Oracle Internet Directory does not have another Metadata Repository registered with the same system identifier (SID). Otherwise, you will get a message that the Metadata Repository is already registered.
  - OracleAS RepCA cannot check if you are registering a database that is already registered with a different Oracle Internet Directory. (It can only check if the database is already registered with the specified Oracle Internet Directory.) Although registration may be successful, you may get unexpected behavior during runtime.
- 
- 

To register the OracleAS Metadata Repository with Oracle Internet Directory:

1. Start up OracleAS RepCA on the computer where the database is installed. See [Section 6, "Starting OracleAS RepCA"](#).

Example 1: Registering a OracleAS Metadata Repository that is installed in a non-Real Application Clusters database:

```
runRepca -OH /opt/oracle/oradb -REGISTER
```

Example 2: Registering a OracleAS Metadata Repository that is installed in a Real Application Clusters database:

```
runRepca -OH /opt/oracle/oradb -RAC -REGISTER
```

2. Follow the screens:

**Table 13 Steps for Registering the OracleAS Metadata Repository**

Step	Screen	Action
1.	Welcome	Click <b>Next</b> .
2.	Specify Database Connect	Enter connect information for the database. <b>Username and Password:</b> Enter the username and password to log in to the database. The user must have DBA privileges. <b>Hostname and Port:</b> Enter the name of the computer and the port number for the database. Use the format: <i>hostname:port</i> . If your middle tier instances are located in a different domain, you need to append the domain name to the hostname. Example 1 (same domain): <i>myhost:1521</i> Example 2 (different domain): <i>myhost.mydomain.com:1521</i> <b>Service Name:</b> Enter the service name of the database. Note that the service name must include the database domain name. Example: <i>asdb.mydomain.com</i> Click <b>Next</b> .
3.	Specify Oracle Internet Directory Connect	<b>Hostname:</b> Enter the name of the computer where Oracle Internet Directory is running. <b>Port:</b> Enter the port number on which Oracle Internet Directory is listening. <b>Use Only SSL Connections with this Oracle Internet Directory:</b> Select this option if you want OracleAS RepCA to connect to Oracle Internet Directory using SSL when performing the registration. Click <b>Next</b> .
4.	Specify Login for Oracle Internet Directory	Enter the Username and Password to log in to Oracle Internet Directory. The user must belong to the iASAdmins group. You can use the user's simple name (for example, <i>jdoe</i> ) or the DN (for example, <i>cn=orcladmin</i> ). If your Oracle Internet Directory contains more than one realm, you need to enter the realm that contains the specified user. Click <b>Finish</b> .

If you exit OracleAS RepCA before the registration is completed or if the registration fails, you must perform the following manual steps before you run OracleAS RepCA again to re-register.

1. Remove repository entries from Oracle Internet Directory. See the *Oracle Internet Directory Administrator's Guide* for details.
2. Reset all schema passwords to their default values.

```
prompt> sqlplus "sys/password as sysdba"
```

```
SQL> alter user schema_name identified by schema_password;
```

3. Lock all schema passwords.

```
prompt> sqlplus "sys/password as sysdba"
```

```
SQL> alter user schema_name account lock password expire;
```

Once these steps are done, you can restart OracleAS RepCA to register the database.

## 10 Using the cleanMR Script to Drop Schemas and Tablespaces

Instead of removing OracleAS Metadata Repository schemas and tablespaces from your database by running SQL statements manually, you can remove these objects by running the `cleanMR` script. The script executes the SQL statements in the `repca_cleanup.sql` file, located in the same directory as the `cleanMR` script.

You must run the script on the computer that is running the database.

Location of the `cleanMR` script:

**Table 14** Location of the `cleanMR` Script on the CD-ROM and DVD

Media	Location of the <code>cleanMR</code> Script
CD-ROM	OracleAS RepCA and Utilities: <code>mount_point/repCA/repca/clean/cleanMR</code>
DVD	<code>mount_point/repca_utilities/repca/clean/cleanMR</code>

To run the `cleanMR` script:

1. Copy the entire `clean` directory from the CD-ROM or DVD to your hard disk.

You cannot run the `cleanMR` script from the CD-ROM or DVD because the script needs to create a file in the directory containing the script. The following example copies the directory to the `/opt/oracle` directory.

CD-ROM (assumes `/cdrom` is the mount point):

```
prompt> cp -r /cdrom/repCA/repca/clean /opt/oracle
```

DVD (assumes `/cdrom` is the mount point):

```
prompt> cp -r /cdrom/repca_utilities/repca/clean /opt/oracle
```

2. Run the script from the directory where you copied it to.

```
prompt> cd /opt/oracle/clean
```

```
prompt> ./cleanMR -OH db_OH -DBSID sid [-DBUSER dbuser] -DBPASSWD  
password [-DBROLE dbrole]
```

**Table 15 Parameters for the cleanMR Command**

Parameter	Optional or Required	Description
-OH <i>db_OH</i>	Required	Specifies the ORACLE_HOME directory for the database.
-DBSID <i>sid</i>	Required	Specifies the SID of the database.
-DBUSER <i>dbuser</i>	Optional	Specifies the database user that the script will use to connect to the database. If not specified, the default user is "SYS".
-DBPASSWD <i>password</i>	Required	Specifies the password for DBUSER.
-DBROLE <i>dbrole</i>	Optional	Specifies the database user role. If not specified, the default role is "SYSDBA".

Example:

```
cleanMR -OH /opt/oracle/oradb -DBSID hrdb -DBPASSWD topsecret
```

Notes:

- The script does not remove the ODS schema, and it does not remove these tablespaces: OLTS\_ATTRSTORE, OLTS\_BATTRSTORE, OLTS\_CT\_STORE, OLTS\_DEFAULT, OLTS\_SVRMGSTORE. These objects pertain to Oracle Internet Directory.  
If you want the script to remove these objects, search for the object names and uncomment the corresponding lines in the `repca_cleanup.sql` file (located in the same directory as the `cleanMR` script).
- The script does not remove data files.

## 11 Cleaning Up a Failed Registration or Deregistering a Metadata Repository

You can also use this procedure if you need to de-register the metadata repository with Oracle Internet Directory.

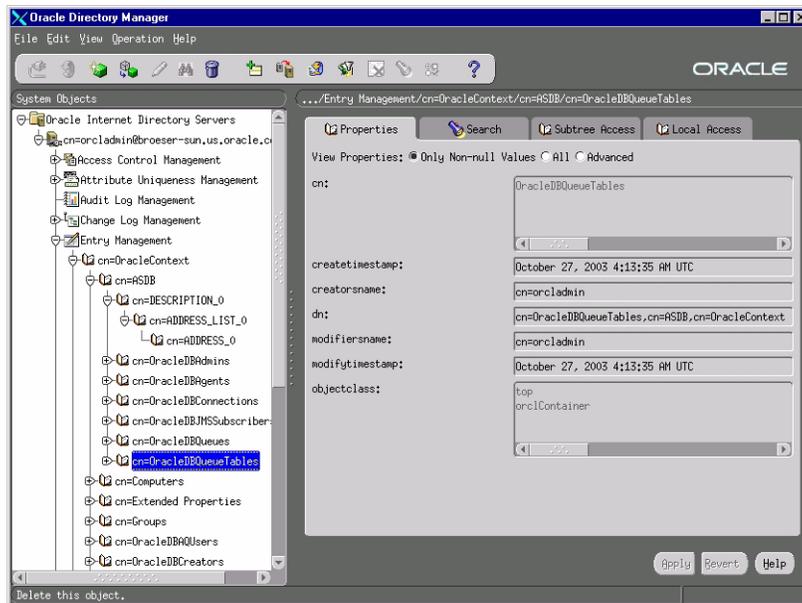
1. Connect to Oracle Internet Directory using Oracle Directory Manager.
  - a. Start up Oracle Directory Manager.  
prompt> `$ORACLE_HOME/bin/oidadmin`
  - b. In the Connect screen, enter the connect information. Log in as the Oracle Internet Directory superuser (`cn=orcladmin`).
2. Clean up the database registration entries in Oracle Internet Directory:
  - a. Expand the following entries (as shown in [Figure 2](#)):  
Expand "Entry Management".  
Expand "cn=OracleContext".  
Expand "cn=*your\_database\_name*".
  - b. Delete all the child entries under `cn=your_database_name`, starting with the bottom-most child entry.

Before deleting the `cn=DESCRIPTION_0` entry, expand it until you reach the last child. Then delete each child starting with the innermost child.

To delete an entry, right-click each child entry and select **Delete** from the pop-up menu. Click **Yes** in the Confirmation dialog. When deleting some child entries, you may get some error messages. You can ignore these error messages.

- c. Right-click on `cn=your_database_name` and delete it.

**Figure 2 Clean up Database Registration Entries**



3. Clean up the metadata repository registration entries in Oracle Internet Directory:

- a. Expand the following entries (as shown in Figure 3):

Expand "Entry Management".

Expand "cn=OracleContext".

Expand "cn=Products".

Expand "cn=IAS".

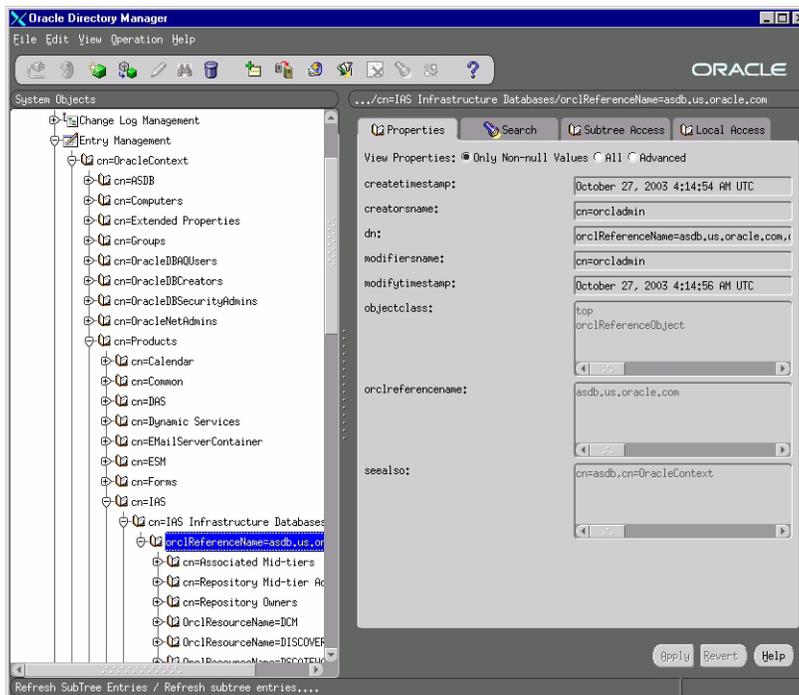
Expand "cn=IAS Infrastructure Databases".

Expand "orclReferenceName=your\_database\_name".

- b. Delete each child entry under `orclReferenceName=your_database_name`.

- c. Delete the `orclReferenceName=your_database_name` entry.

**Figure 3 Clean up Metadata Repository Registration Entries**



## 12 Troubleshooting

This section describes problems that might arise when running OracleAS RepCA, and how to resolve them.

### 12.1 OracleAS RepCA Loses Connection to Database (Error Code ORA-03113)

This message appears if you did not run the `catpatch.sql` script when applying the 9.0.1.5 or 9.2.0.4 database patch set.

To fix this problem, exit OracleAS RepCA and run the `catpatch.sql` script on the database.

## 13 Documentation Accessibility

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