

# Oracle® Database

Release Notes

10g Release 2 (10.2) for Microsoft Windows (32-Bit)

**B14264-01**

August 2005

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This document contains important information that was not included in the platform-specific or product-specific documentation for this release. This document supplements *Oracle Database Readme*.

This document may be updated after it is released. To check for updates to this document and to view other Oracle documentation, see the Documentation section on the Oracle Technology Network (OTN) Web site:

<http://www.oracle.com/technology/documentation/>

For additional information about this release, refer to the readme files located in the `ORACLE_BASE\ORACLE_HOME\relnotes` directory.

It contains the following topics:

- [Certification Information](#)
- [Unsupported Products](#)
- [Accessibility Software Recommendations](#)
- [Installation, Configuration, and Upgrade Issues](#)
- [Grant Additional Privileges to the Oracle Enterprise Manager Repository User](#)
- [Other Known Issues](#)
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## 1 Certification Information

The latest certification information for Oracle Database 10g release 2 (10.2) is available at:

<http://metalink.oracle.com>

## 2 Unsupported Products

The following products are not supported with Oracle Database 10g release 2 (10.2):

- Grid Control Support  
Oracle Database 10g release 2 (10.2) can be managed as a target by Grid Control 10.1.0.4. Oracle Database 10g release 2 is not supported by Grid Control 10.1.0.4 as a repository.

## 3 Accessibility Software Recommendations

Our goal is to make Oracle products, services, and supporting documentation accessible to the disabled community. Oracle Database 10g release 2 (10.2) supports accessibility features. To make best use of these accessibility features, Oracle recommends the following software configuration:

- Windows 2000 with Service Pack 2 or later
- Sun Java Access Bridge 1.0.4 (included with the Oracle Database 10g release 2 (10.2) media)
- JAWS screen reader 5.0
- Microsoft Internet Explorer 5.5 or later

Additional accessibility information for Oracle products can be found at

<http://www.oracle.com/accessibility>

For the latest configuration information and for information about addressing accessibility and assistive technology issues, see the Oracle Accessibility FAQ at

<http://www.oracle.com/accessibility/faq.html>

## 4 Installation, Configuration, and Upgrade Issues

Review the following sections for information about issues that affect Oracle Database installation, configuration, and upgrade:

- [Database Upgrade Using Database Upgrade Assistant](#)
- [Limitations with 32-Bit Windows](#)
- [RAC and ASM Interoperability With Oracle Database 10g Release 2](#)
- [Shutdown of Cluster Ready Services Stack May Leave Processes Running](#)
- [Modifying a Virtual IP Address Node Application](#)
- [10.2 RAC Installations on an Oracle Database Release 10.1.0.4 Cluster](#)
- [Error While Deleting a Remote Instance From a RAC-Shared Oracle Home Database](#)
- [Reading a Downgraded Oracle Cluster Registry with Database Management Tools](#)
- [Oracle Database 9.2 Startup Error with srvctl when the Global Services Daemon is Running in a 10.2 Home](#)

- [Oracle Database 9.2 Startup Error with srvctl when the Global Services Daemon is Running in an Oracle 10.2 Clusterware](#)
- [Deleting a Node from Oracle Clusterware](#)
- [Installing Enterprise Security Manager](#)
- [Configuring Raw Devices for Storage](#)
- [Central Configuration of Oracle Real Application Clusters Disabled on Windows](#)
- [Oracle C++ Call Interface \(OCCI\) Libraries](#)
- [ODBC Online Help in Japanese is Not Installed](#)

## 4.1 Database Upgrade Using Database Upgrade Assistant

If the database version does not match the Oracle release version, Database Upgrade Assistant displays a warning message. The warning message incorrectly instructs you to run `catpatch.sql` from the Oracle Database 10g release 1 home. Do not do this. Instead, run `catpatch.sql` from the `rdbms\admin` directory of the source Oracle home from which you are upgrading.

The issue is tracked with Oracle bug 4551401.

After the upgrade, the `ORACLE_SID` parameter is not defined in the Windows registry.

### Workaround:

1. Set `ORACLE_SID=Oracle_Sid` at the command prompt *before* you use SQL\*Plus.
2. Set the `ORACLE_SID` parameter in the registry (`My Computer\HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_10.2UpgradeHome\ORACLE_SID`).

This issue is tracked with Oracle bug 4534421.

## 4.2 Limitations with 32-Bit Windows

If you do not have sufficient address space to allocate PGA memory, you can run into `ORA-04030` errors or system commands can fail with OS error 1450 or 997. The following solutions are suggested:

- Run a smaller work load and use less users.
- Run with the `/3GB` option and use Windows Enterprise Edition. Note that the `/3GB` option has the potential to deprive the operating system of necessary kernel resources, which can lead to Oracle instance failures. See the *Oracle MetaLink* technical note at <http://metalink.oracle.com> entitled Note 297498.1: Resolving Instance Evictions on Windows Platforms Due to OS 10055 Errors (OS-1540).

Aside from not using the `/3GB` option, you can tune the amount of RAM that is available to the kernel by using the `/USERVA` parameter. Visit the following URL for details:

<http://support.microsoft.com/default.aspx?scid=kb;en-us;810371>

Determining the correct value is a trial and error process, but 2048 has worked for some users.

Oracle can support Physical Addressing Extensions/Address Windowing Extensions. This is another way in which you can get the Oracle instance to use large amounts of RAM (64G on 32-bit Windows).

- Use VLM with a small window so that address space is allocated for PGA.
- Reduce the per thread stack space usage using `orastack`.

This issue is tracked with Oracle bugs 4552171, 4552150, and 4552097.

### 4.3 RAC and ASM Interoperability With Oracle Database 10g Release 2

10.1.0.2 or 10.1.0.3 RAC or Automatic Storage Management, instances do not interoperate with 10.2 Cluster Synchronization Service on Windows. The following error may appear on the top of the stack:

```
/_propopen+2162      CALLrel _propitudtoname/
```

#### Workaround:

Apply the patch for bug 3843632 to the 10.1.0.2 or 10.1.0.3 Oracle home.

This issue is tracked with Oracle bug 3843632.

### 4.4 Shutdown of Cluster Ready Services Stack May Leave Processes Running

After shutting down the Cluster Ready Services (CRS) stack on a given node using the following command:

```
CRSCTL.EXE stop crs
```

the `OracleEVMSERVICE` or `OracleCRSERVICE` may not be listed in the STOPPED state. Furthermore, you may notice the existence of `CRSD.EXE` or `EVMD.EXE` in the Task Manager list of running processes. To stop these processes, issue the following commands from the operating system command prompt:

```
net stop OracleCRSERVICE
net stop OracleEVMSERVICE
```

### 4.5 Modifying a Virtual IP Address Node Application

When modifying the name, IP address, or netmask of an existing virtual IP address (VIP) resource using the following command:

```
srvctl modify nodeapps
```

you must include the existing interfaces for the VIP in the `-A` argument. For example:

```
srvctl modify nodeapps -n mynode1 -A 100.200.300.40/255.255.255.0/eth0
```

This issue is tracked with Oracle bug 4500688.

## 4.6 10.2 RAC Installations on an Oracle Database Release 10.1.0.4 Cluster

When Oracle Universal Installer is performing a RAC 10g release 2 installation on a cluster that already has Oracle Database release 10.1.0.4, Oracle Universal Installer gives you an option of performing an upgrade on any databases running on the system.

If you select this option to upgrade, Oracle Universal Installer invokes Database Upgrade Assistant to perform the upgrade. As part of the database upgrade, Enterprise Manager Database Control is also upgraded. This does not impact the upgrade itself. The impact is that if the preupgrade version of the database is 10.1.0.4, Database Control may not start on one or more nodes after the upgrade. As a result, if you run the following command on that node:

```
emctl status dbconsole
```

it reports that Enterprise Manager Database Console is not running. Logging in through the browser also fails. This bug is intermittently observed.

### Workaround:

1. Go to the node where the Enterprise Manager Database Console is not running.
2. End the `emagent.exe` process from the Task Manager.
3. Restart the `OracleDBConsoleSID` service.

This issue is tracked with Oracle bug 4550226.

## 4.7 Error While Deleting a Remote Instance From a RAC-Shared Oracle Home Database

During a delete instance operation on a cluster database using a shared Oracle home, you can encounter the following error message if the database has been configured for Enterprise Manager Database Control:

```
Error updating EM configuration for node node name
```

As a result, the Enterprise Manager configuration is not completely removed from the node where the deleted instance was running. However, this does not have any adverse effects. You can click **OK**, ignore the error, and proceed.

This issue is tracked with Oracle bug 4547265.

## 4.8 Reading a Downgraded Oracle Cluster Registry with Database Management Tools

Oracle Database 9.2 management tools (such as `srvctl`) encounter errors when attempting to read an Oracle Cluster Registry (OCR) that was downgraded from 10.2 to 9.2 on Windows.

### Workaround:

1. Dump the contents of the 10.2 OCR before downgrading by using the `ocrdump` tool. Identify the set of 9.2 configured databases. The database configuration resides under the `DATABASE.DATABASES` key.
2. Follow the downgrade procedure as documented.

3. Identify the location of the 9.2 OCR. It is either `\\.\srvcfg` or the file pointed to by registry value `CfsOcrRoot` under `HKEY_LOCAL_MACHINE\SOFTWARE\Oracle\osd9i\ocr`.
4. Clear the contents of the 9.2 OCR.
5. Execute the following command from the 9.2 Oracle home:
 

```
srvconfig -init -f
```
6. Configure the 9.2 cluster databases identified in Step 1:
 

```
srvctl add database
```

This issue is tracked with Oracle bug 4507090.

#### 4.9 Oracle Database 9.2 Startup Error with srvctl when the Global Services Daemon is Running in a 10.2 Home

The `srvctl` tool fails with the following errors when starting Oracle9i databases after Oracle 10g release 2 Clusterware is installed and the Global Services Daemon (GSD) is started from the Oracle Clusterware home:

```
/ORA-01005: null password given; logon denied /
/ORA-01031: insufficient privileges /
/ORA-01005: null password given; logon denied" /
```

##### Workaround:

1. Execute the following command to get the list of nodes in the Oracle Clusterware:

```
CRS home/bin/olsnodes
```

where *home* is the Oracle Clusterware home.

2. Execute the following command on one node.

```
CRS home/bin/crsuser add Oracle_user*
```

This command creates the service on all other nodes.

3. Execute the following commands for each node identified in Step 1:

```
CRS home/bin/crs_stop ora.node_name.gsd
CRS home/bin/crs_setperm ora.node_name.gsd -o Oracle_user
CRS home/bin/crs_start ora.node_name.gsd
```

This issue is tracked with Oracle bug 4523043.

#### 4.10 Oracle Database 9.2 Startup Error with srvctl when the Global Services Daemon is Running in an Oracle 10.2 Clusterware

Starting Oracle Database release 9.2 with `srvctl` fails when the Global Services Daemon (GSD) is running from Oracle 10.2 Clusterware. A dialog window displays the following error message:

```
The instruction at hex_address referenced memeory at hex_address. The memory
could not be read
```

**Workaround:**

1. Copy `srvctl.bat` to `srvctl.orig.bat` in the `9.2 Oracle_Home\bin` directory.
2. Edit the `9.2 Oracle_Home\bin\srvctl.bat` file to add the following *before* `-classpath`.  
`-DTRACING.ENABLED=true -DTRACING.LEVEL=2`
3. Save the `Oracle_Home\bin\srvctl.bat` file and reissue the same command with `srvctl` that previously failed.

This issue is tracked with Oracle bug 4571520.

## 4.11 Deleting a Node from Oracle Clusterware

If the `ORA.ORA_SID.DB` resource is ONLINE on a node that you want to delete from Oracle Clusterware, the delete node procedure displays the following errors while running `crssetup`:

```
prompt> crssetup del -nn node_name
Step 1: shutting down node apps
       :node_name ora.rac1.db in ONLINE state
       . . .
please manually stop dependent CRS resource before continuing
```

**Workaround:**

For the database resource (`ora.*.db`) mentioned in the error as being ONLINE, perform a relocation of that resource to any other node that is a part of the cluster. Run the `crs_relocate` command as shown below to perform the relocation:

```
crs_relocate name_of_the_db_resource -c cluster_node
```

This issue is tracked with Oracle bug 4564000.

## 4.12 Installing Enterprise Security Manager

To install Enterprise Security Manager (ESM), install Oracle Client and choose the Administrator installation type.

## 4.13 Configuring Raw Devices for Storage

While Oracle Database 10g supports raw devices, tools such as Database Configuration Assistant do not support the configuration of raw devices for single instances. Instead, use Automatic Storage Management (ASM) or the file system to store database files.

For Oracle Real Application Clusters (RAC) installations, configure raw device shared storage by stamping disks with Oracle Object Link Manager. You can also use your own scripts to configure raw devices.

**See Also:**

- *Oracle Database Installation Guide for Microsoft Windows (for single-instance database installations)*
- *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Installation Guide for Microsoft Windows*

This issue is tracked with Oracle bug 4554058.

## 4.14 Central Configuration of Oracle Real Application Clusters Disabled on Windows

The option for configuring central management of your database by Enterprise Manager 10g Grid Control is not available during RAC installation on Windows. Also not supported on Windows is the use of standalone Enterprise Manager Configuration Assistant or Database Configuration Assistant to configure central management for RAC.

If you want central management for the installed RAC database, then you will have to discover the RAC database target manually from Grid Control after the installation.

## 4.15 Oracle C++ Call Interface (OCCI) Libraries

OCCI libraries for developing applications with Microsoft Visual C++ version 7.1 (.NET 2003) and version 7.0 (.NET 2002) are available in the 10.2 release. Microsoft Visual C++ version 6.0 is no longer supported.

Microsoft Visual C++ version 7.1 libraries are now installed in the default location: `oraocci10.dll` under `ORACLE_BASE\ORACLE_HOME\bin` and `oraocci10.lib` under `ORACLE_BASE\ORACLE_HOME\oci\lib\msvc`. Copies of these two files are also installed under `ORACLE_BASE\ORACLE_HOME\oci\lib\msvc\vc71`. The Microsoft Visual C++ 7.0-specific version of the libraries are installed under `ORACLE_BASE\ORACLE_HOME\oci\lib\msvc\vc7`.

Applications required to link with `MSVCR7D.DLL` (debug version of Microsoft C-Runtime, `/MDd` compiler flag) should link with the specific OCCI libraries for this purpose: `oraocci10d.lib` and `oraocci10d.dll`.

All Instant Client packages contain the Microsoft Visual C++ version 7.1 compatible version of the OCCI DLL.

Applications should link with the appropriate OCCI library and ensure that the corresponding DLL is located first in the Windows system `PATH`.

## 4.16 ODBC Online Help in Japanese is Not Installed

If you select **Start > Programs > Oracle - HOME\_NAME > Application Development > Oracle ODBC**, the online help displays in English instead of Japanese.

This issue is tracked with Oracle bug 4490895.



## 5 Grant Additional Privileges to the Oracle Enterprise Manager Repository User

If you are using Oracle Enterprise Manager Java Console to manage your database, grant the following privileges to the repository user and create the repository:

```
CREATE CLUSTER
CREATE DATABASE LINK
CREATE SEQUENCE
ALTER SESSION
CREATE SYNONYM
CREATE TABLE
CREATE VIEW
```

---

---

**Note:** Oracle Enterprise Manager Java Console is available on the Oracle Database Client installation media.

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Complete the following steps to create a repository user and grant privileges:

1. Start the standalone Java Console.
2. Double-click the database node in the navigator tree and connect to the database as a user with the `NORMAL` role.
3. Select **Create** from the Object menu.  
The Create window appears.
4. Expand the database node in the Create window and select **User**. Then click the **Create** button.  
The Create User property sheet appears.
5. On the General page, enter the name of the user and the password, and select `OEM_REPOSITORY` as the default tablespace and `TEMP` as the temporary tablespace.
6. On the Role page, grant the `CONNECT` and `SELECT_CATALOG_ROLE` roles to the repository user.
7. On the System Privileges page, grant the `CREATE_TRIGGER`, `CREATE_PROCEDURE`, `EXECUTE_ANY_PROCEDURE`, `CREATE_TYPE`, `EXECUTE_ANY_TYPE`, `SELECT_ANY_TABLE`, `CREATE_CLUSTER`, `CREATE_DATABASE_LINK`, `CREATE_SEQUENCE`, `ALTER_SESSION`, `CREATE_SYNONYM`, `CREATE_TABLE`, and `CREATE_VIEW` privileges to the repository user.
8. On the Quota page, specify unlimited for `OEM_REPOSITORY` and `TEMP`.
9. On the Create User property sheet, click the **Create** button.

## 6 Other Known Issues

The following sections contain information about issues related to Oracle Database 10g and associated products:

- [Readme Text Files](#)
- [NTS Authentication Failure with .NET Remote Objects](#)
- [Windows Firewall Configuration](#)
- [Local Oracle Database Client Connections](#)
- [Untranslated Start Menu Item for Oracle Workflow](#)
- [Transportable Tablespaces feature in Enterprise Manager Database Console](#)
- [Enterprise Manager Database Control Exception Error To Ignore](#)

### 6.1 Readme Text Files

Some Readme text files contain UNIX line breaks. If you double-click these files, they open in Notepad by default, but Notepad does not recognize UNIX line breaks. Use WordPad (`write.exe`) or `edit.com` instead.

### 6.2 NTS Authentication Failure with .NET Remote Objects

If NTS authentication is used with an Oracle client as a .NET remote object impersonating a user credential, then NTS authentication fails with the error `ora-12638 Credential Retrieval Failed`. This happens due to the failure of the Windows API `AcquireCredentialsHandle()` in the NTS adapter inside the .NET remote object. Refer to *OracleMetalink* for more details.

### 6.3 Windows Firewall Configuration

Windows XP Service Pack 2 changes the security of WebDAV configurations. The following access error message may display when computers with Windows XP Service Pack 2 attempt to access an Oracle XML DB repository using the HTTP/Web Distributed Authoring and Versioning (WebDAV) protocol from Windows Explorer or other tools:

The folder you entered does not appear to be valid. Please choose another.

Perform the following steps to access Oracle XML DB from a client computer using the WebDAV protocol:

1. Create the following registry key on the client machine and set it to a non-zero value:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient\Parameters\UseBasicAuth (DWORD)
```

2. Restart the client computer or restart the WebClient service.

**See Also:**

- <http://www.microsoft.com/technet/prodtechnol/winxppro/maintain/sp2netwk.msp#XSLTsection129121120120> for more information about the WebDAV security changes in Service Pack 2
- "Postinstallation Configuration Tasks on Windows" in *Oracle Database Platform Guide for Microsoft Windows (32-Bit)* for more information about required Microsoft Firewall configuration tasks

## 6.4 Local Oracle Database Client Connections

If you plan to connect the Oracle Database to a release of Oracle Database Client that is earlier than 10g release 2 (10.2), you cannot do so if all of the following conditions exist:

- Oracle Database Client is running on the same computer as Oracle Database 10g release 2 (10.2).
- Microsoft Windows Terminal Services is not running on the same computer as Oracle Database Client. Typically, Terminal Services is installed and configured with Microsoft Windows 2003, but on Microsoft Windows 2000 or XP, it may not be installed or enabled.
- Oracle Database Client is version 9.0.x to 9.2.0.6 or 10.1 to 10.1.0.3.
- Oracle Database Client is not running as Administrator.

To remedy this problem, upgrade Oracle Database Client to release 9.2.0.7, or 10.1.0.4 or higher by downloading the Oracle Database Family patch set from *OracleMetaLink* at:

<http://metalink.oracle.com/>

## 6.5 Untranslated Start Menu Item for Oracle Workflow

If you install Oracle Database 10g Products, which include Oracle Workflow server, in a language other than English, the installation adds a submenu named Configuration and Migration Tools in English to the Windows Start menu under the corresponding Oracle home. This submenu includes only one item: Workflow Configuration Assistant. Other Oracle Database tools still appear under a separate, properly translated Configuration and Migration Tools submenu.

This issue is tracked with Oracle bug 4551276.

## 6.6 Transportable Tablespaces feature in Enterprise Manager Database Console

The transportable tablespaces feature accessible from the **Maintenance** tab has some limitations when generating and integrating tablespaces in Automatic Storage Mode (ASM). The limitations and workarounds are described below:

**Limitation:**

There is a limitation when generating the transportable tablespace set on databases using ASM as storage. On Page 4, Files Page, if you provide the disk group name in the dump file location, you receive the following error when you submit the job:

```

RMAN-00571: =====
RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====
RMAN-00571: =====
RMAN-03009: failure of backup command on ORA_DISK_1 channel at 08/22/2005
08:23:58
ORA-19504: failed to create file "+DATA/naresh/testtablespace1.260.566954713"
ORA-17502: ksfdcre:4 Failed to create file
+DATA/naresh/testtablespace1.260.566954713
ORA-15046: ASM file name '+DATA/naresh/testtablespace1.260.566954713' is not
in single-file creation form

```

**Workaround:**

On Page 4, Files Page, provide a file system location instead of the disk group name. Data files and dump files are generated on the file system location you provide.

**Limitation:**

There is a limitation when integrating the transportable tablespace set on databases using ASM as storage. On Page 2, Datafile Destination Page, if in the data files table you provide the same disk group name for all data files, you can receive the following error when you submit the job:

```

RMAN> 2> 3>
Starting backup at 22-AUG-05
allocated channel: ORA_DISK_1
channel ORA_DISK_1: sid=152 devtype=DISK
RMAN-00571: =====
RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====
RMAN-00571: =====
RMAN-03002: failure of backup command at 08/22/2005 09:08:36
ORA-15122: ASM file name '+MAKI/+MAKI/+MAKI/+MAKI/' contains an invalid file
number

```

**Workaround:**

On Page 2, Datafile Destination Page, provide a unique disk group name for each data file.

This issue is tracked with Oracle bug 4566250.

## 6.7 Enterprise Manager Database Control Exception Error To Ignore

Immediately after switching the Enterprise Manager Agent from nonsecure to secure mode, or vice versa, Enterprise Manager Database Control can show the following exception on the home page:

```
java.lang.Exception: Exception in sending Request :: null
```

The home page is fully functional despite this exception, and this exception should go away within five minutes. Starting and stopping Enterprise Manager Database Control should also make this exception go away.

This issue is tracked with Oracle bug 4562655.

## 7 Documentation Corrections and Additions

This section contains these topics:

- [Oracle Data Provider for .NET and RAC Issues](#)
- [Oracle Data Provider for .NET, InitialLOBFetchSize Issues](#)

### 7.1 Oracle Data Provider for .NET and RAC Issues

The Oracle Data Provider for .NET Dynamic Help differs slightly from the *Oracle Data Provider for .NET Developer's Guide* (in Acrobat PDF), due to terminology changes describing Real Application Clusters (RAC). These differences occur in the "Connection Pooling for Real Application Clusters (RAC)" section in Chapter 3 of the *Oracle Data Provider for .NET Developer's Guide*. The information in this guide is up to date. The main differences are as follows:

- The Dynamic Help refers to *Load Balancing* and the guide refers to *Runtime Connection Load Balancing* in several places. The Dynamic Help refers to a basis in *real-time workload metrics and distribution policy* and the guide refers to the *load balancing advisory and service goal* in several places.
- Only the Dynamic Help includes the following sentence (in the first paragraph of the first subheading of Chapter 3):  
  
Furthermore, ODP.NET connection pool can be enabled to proactively free resources associated with connections that have been severed due to a down RAC service, service member, or node.
- The Dynamic Help references Oracle Real Application Clusters Quick Start and the guide references *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide* and *Oracle Database Net Services Administrator's Guide* in a See Also note. The Dynamic Help references the *Oracle Real Application Clusters Administrator's Guide* and the guide references *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide* in another See Also note.
- The guide includes the following note in the second subheading:

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**Note:** The database service being connected to must be configured for AQ\_HA\_NOTIFICATIONS. For more details, see *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide*

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- The guide includes the following paragraph in the sub-bullets:  
In order to use Runtime Connection Load Balancing, specific RAC configurations must be set. For further information, see *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide*. Oracle Net Services should also be configured for load balancing. See *Oracle Database Net Services Administrator's Guide* for further details.

## 7.2 Oracle Data Provider for .NET, InitialLOBFetchSize Issues

In Chapter 5 of *Oracle Data Provider for .NET Developer's Guide*, under the section `InitialLOBFetchSize`, the following information appears incorrectly under the section "For releases prior to Oracle Database 10g release 2 (10.2)":

If the `InitialLOBFetchSize` is set to a nonzero value, `GetOracleBlob()` and `GetOracleClob` methods are disabled. BLOB and CLOB data are fetched by using `GetBytes` and `GetChars` methods, respectively.

This was corrected to appear as follows under: For Oracle Database 10g release 2 (10.2) and later:

Prior to Oracle Database 10g release 2 (10.2), if the `InitialLOBFetchSize` is set to a nonzero value, `GetOracleBlob` and `GetOracleClob` methods were disabled. BLOB and CLOB data was fetched by using `GetBytes` and `GetChars` methods, respectively. In Oracle Database 10g release 2 (10.2), this restriction no longer exists. `GetOracleBlob` and `GetOracleClob` methods can be used for any `InitialLOBFetchSize` value zero or greater.

## 8 Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

### Accessibility of Code Examples in Documentation

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

### Accessibility of Links to External Web Sites in Documentation

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