This document contains important information that was not included in the platform-specific or product-specific documentation for this release. Unless stated otherwise, the information in this document applies equally to z/OS, and z/OS.e.

It contains the following topics:

- Documentation Updates
- Unsupported Features and Functions
- Known Restrictions
- Known Bugs
- Documentation Accessibility

This document may be updated after release. To check for updates to this document and to view other product-specific release notes, see the Documentation section on the OTN Web site:

http://otn.oracle.com/documentation

For additional information about this release, go to the Install CD-ROM, open the file welcome.html, and click the ReadMe tab. This provides access to the readme files.

**Documentation Updates**

The following sections contain updates to the Oracle Database 10g documentation:

- Globalization Support
- Support for Hearing and Speech Impaired Customers
- Required Disk Space for Transparent Gateway for iWay

**Globalization Support**

The instructions about the ORA_NLS10 environment variable in the "Using Oracle9i Database Language and Territory Definition Files with Oracle Database 10g" section of the Oracle Database 10g README file are incorrect. This is because the $ORACLE_HOME/nls/data/old directory contains definitions files which
have changed in Oracle Database 10g release 1 only, and not the complete set of the database locale definition files. To include the Oracle 9i definitions:

1. Create a new directory:
   
   $ mkdir $ORACLE_HOME/nls/data/9i

2. Copy the contents of the $ORACLE_HOME/nls/data directory to the new directory:
   
   $ cp $ORACLE_HOME/nls/data/*.nlb $ORACLE_HOME/nls/data/9i

3. Copy the contents of the $ORACLE_HOME/nls/data/old directory to the directory that you created in step 1:
   
   $ cp $ORACLE_HOME/nls/data/old/*.* $ORACLE_HOME/nls/data/9i

4. Set the ORA_NLS10 environment variable to specify the directory that you created, for example:
   
   - Bourne, Bash, or Korn shell:
     
     $ ORA_NLS10=$ORACLE_HOME/nls/data/9i ; export ORA_NLS10
   
   - C shell:
     
     % setenv ORA_NLS10 $ORACLE_HOME/nls/data/9i

   See Also: Refer to the Oracle Database 10g Globalization Support Guide and the Oracle Database 10g README for more information about the changes in the language and territory definition files between Oracle9i and Oracle Database 10g.

Support for Hearing and Speech Impaired Customers

The Text Telephone (TTY) phone number for non-technical support is listed incorrectly in several documents. The correct phone number is 1.800.464.2330.

Required Disk Space for Transparent Gateway for iWay

Refer to Oracle Database Installation Guide for IBM z/OS to determine the total Oracle non-database disk space requirements, including those for code, JCL, and samples.

Unsupported Features and Functions

This release of Oracle10g for IBM z/OS (OS/390) does not include support for the following features and functions. Existing customers should also consult Oracle10g Enterprise Edition System Administration Guide for z/OS for unsupported features or functions that should be taken into consideration during a migration or upgrade.

- Automated Storage Manager
- Cross Platform Transportable Tablespaces
- Generic Connectivity using ODBC
- HTML_DB
- Oracle Data Mining
- Oracle Dynamic Services Server
- Oracle HTTP Server
- Oracle interMedia Audio, Video, Image and Locator
- Oracle Internet Directory
- Oracle Messaging Gateway
- Oracle Real Application Cluster Guard
- Oracle Java Server Pages
- Oracle Personalization
- Oracle Ultra Search
- Oracle Wallet Manager
- Oracle Workflow
- Oracle Workspace Manager
- SSL

**Known Restrictions**

The following is a list of known restrictions to this release of Oracle Database on IBM z/OS:

- Advanced Queuing
- ALTER DATABASE...RESIZE
- Automatic Recall of Database Data Sets
- Client Runtime with C Programs
- IEEE Standard Floating Point Number Restrictions
- Java Virtual Machine (JavaVM)
- Native Compilation of Java and PL/SQL
- Oracle Call Interface
- Oracle Datapump
- Oracle Enterprise Manager Intelligent Agent
- Oracle External Tables
- Oracle JDBC OCI Drivers
- Oracle OLAP
- Oracle Programmer
- Oracle Real Application Clusters
- Oracle Security Server
- Oracle Spatial Data Option
- Oracle Streams
- Oracle Universal Installer
- Oracle Utilities
Oracle XML Developers Kit
Propagation from Object Queues
XML Database (XML DB)

Advanced Queuing
Non-repudiation of Advance Queuing messages sent across a firewall using Internet Document Access Protocol (IDAP) is not supported in this release.

ALTER DATABASE...RESIZE
Oracle database files on IBM z/OS are implemented as VSAM linear data sets. IBM does not provide a space release function for VSAM data sets, so using ALTER DATABASE...RESIZE to make a database file smaller has no effect. Database files can be resized larger, both manually (with ALTER) and automatically as they fill (when a tablespace is defined with AUTOEXTEND).

Automatic Recall of Database Data Sets
No support is available currently for automatically recalling IBM z/OS data sets that are used by the Oracle server if they have been migrated to other media by IBM's DFSMShsm, or a similar product. This applies to the VSAM linear data sets (LDS) comprising the database, and to non-VSAM data sets such as parameter files. All such data sets must be on disk in their original form at the time that they are opened by the server.

Client Runtime with C Programs
To use 10g Release 1 (10.1.0.2.0) Client with a C program, you must complete the following steps:

1. Ensure that the C for z/OS V1R2 compiler is installed, instead of or addition to the C for OS390 V2R10.
2. Recompile all OCI programs using the C for z/OS V1R2 compiler with the ENUM(INT) option.

Note: Refer to z/OS V1R2.0 C/C++ Compiler and Run-Time Migration Guide for additional information about this issue.

IEEE Standard Floating Point Number Restrictions
The following is a list of restrictions that apply to the IEEE standard floating point numbers:

- The new BINARY_DOUBLE and BINARY_FLOAT database data types are not supported for client applications running on z/OS.

This restriction applies to both customer-written applications and Oracle tools and utilities on z/OS. Attempts to store or fetch these types from a client program running on z/OS will produce unpredictable results with both local and remote Oracle10g servers.

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Use of z/Architecture Binary Floating Point (BFP, also known as IEEE 754 floating point) in Oracle applications running on z/OS is not supported. This restriction means that customer-written Oracle applications cannot bind or define host variables that are BFP types in an Oracle SQL statement. This restriction also affects tools and utilities: both SQL*Loader and the server External Table feature cannot load file data that is BFP.

Traditional System/370 floating point data (now known as Hexadecimal Floating Point or HFP) remain supported, as in the past.

**Java Virtual Machine (JavaVM)**
The following Java methods are not supported with the JavaVM:

- java.lang.Runtime.exec()
- java.lang.System.load()
- java.lang.System.loadLibrary()
- java.lang.System.mapLibraryName()
- java.nio.channels.

**Native Compilation of Java and PL/SQL**
Native compilation of Java or PL/SQL programs is not supported.

**Oracle Call Interface**
The Oracle C++ Call interface is not supported in this release.

**Oracle Datapump**
Oracle Datapump is restricted to HFS and zFS file systems.

**Oracle Enterprise Manager Intelligent Agent**
The following sections contain issues that affect Oracle Enterprise Manager Intelligent Agent:

**Available Functions with Oracle Enterprise Manager Intelligent Agent**
Oracle10g Database for IBM z/OS (OS/390) supports only a minimal set of host functions, as the grid control is provided with the z/OS system CPU usage. This release does not provide the grid control with disk activity, swap size, or information about active users.

**Configuration of Oracle Enterprise Manager Intelligent Agent**
Configuration of the Agent must be done manually. The Oracle Enterprise Manager Configuration Assistant is not supported with this release.

**Database Startup and Shutdown with Oracle Enterprise Manager**
Oracle10g Database for IBM z/OS (OS/390) supports database startup and shutdown from the console. Before you can use this feature, the OSDI rdbms and net subsystem must be active.
Oracle Enterprise Manager Grid Control Console and iSQL*Plus

Oracle10g Database for IBM z/OS (OS/390) does not support the iSQL*Plus interface from the console.

Oracle Enterprise Manager Grid Control Console Not Shipped

Currently, Oracle10g Database for IBM z/OS (OS/390) only ships with the Oracle Enterprise Manager Agent. Oracle Enterprise Manager Grid Control Console is not supported, though this release does support a remote Oracle Enterprise Manager Grid Control Console. This is because the repository for this console must not reside on a z/OS platform.

Oracle External Tables

External Tables is an Oracle feature that allows you to process non-Oracle operating system files as Oracle database tables. On IBM z/OS, the External Tables feature is limited to accessing files in the HFS and zFS file systems.

Oracle JDBC OCI Drivers

The Oracle JDBC OCI drivers are not available for this release.

Oracle OLAP

The following sections contain issues affecting Oracle OLAP:

Oracle OLAP API

The Oracle OLAP API interface is not supported.

Oracle OLAP Installation

Dynamically linking options into the Oracle kernel as part of the Oracle Universal Installer installation is not supported in this release. If you choose the OLAP optional feature, then after the Oracle Universal Installer installation is complete, you must complete the following task manually to link the required code into Oracle:

1. Set your $ORACLE_HOME and $ORACLE_HLQ_PDS.
   Do this by running the ENV file in your ORACLE_HOME location. For example:
   
   ```
   cd $ORACLE_HOME/server/rdbms
   make -f ins_rdbms.mk olap_on
   make -f ins_rdbms.mk ioracle
   ```
   
   A backup copy of the oracle executable is kept automatically in
   $ORACLE_HOME/server/rdbms/bin. It is named oracleO.

2. (Optional) Allocate a temporary AUTHLOAD to hold the new Oracle executable.
   The final stage of the relink make attempts to copy the new Oracle executable into your AUTHLOAD, provided the link is successful. To allocate a temporary AUTHLOAD:
   
   a. Allocate your new AUTHLOAD, using the same attributes as the current AUTHLOAD
b. Set the ORACLE_HLQ_PDS environment variable to point to this new HLQ.

3. Refer to the Oracle OLAP documentation to run the OLAP installation scripts.
   At a minimum, you will need to run the script $ORACLE_HOME/olap/admin/olap.sql.

**Oracle Scheduler**
External jobs are not supported from Oracle Scheduler on IBM z/OS.

**Oracle Programmer**
Pro*Fortran is not supported in this release.

**Oracle Real Application Clusters**
If you use ARCHIVE mode with Oracle Real Application Clusters (RAC), then you must either set the LOG_ARCHIVE_FORMAT/DEST values, or make sure that each instance within the RAC cluster is in a separate subsystem and uses the same OSDI service name for each instance. Failure to do so will cause database recovery to fail, due to an inability to find archive log files.

**Oracle Security Server**
For Oracle Security Server, an Oracle10g server or client on IBM z/OS cannot be a participant in an Oracle security connection. However, an Oracle database server on IBM z/OS can be the security repository.

**Oracle Spatial Data Option**
The SDO_GEORASTER feature is not supported.

**Oracle Streams**
The DBMS_FILE_TRANSFER PL/SQL package is not supported.

**Oracle Universal Installer**
The following configuration assistants for Oracle Universal Installer are not supported:
- Database Configuration Assistant (dbca)
- Net Configuration Assistant (netca)
- Enterprise Manager Configuration Assistant (emca)

**Oracle Utilities**
The utilities Oracle Trace and dbnewid are not available.
Additional utilities are also not available with this release. For a complete list of unavailable utilities, refer to the documents Oracle Database Installation Guide 10g
Release 1 (10.1) for IBM z/OS (OS/390), and Oracle Database System Administration Guide 10 g Release 1 (10.1) for IBM z/OS (OS/390).

Oracle XML Developers Kit
The following parts of the XML Developers Kit are not supported:
- XML Class Generator for Java and C++

Propagation from Object Queues
Propagation from object queues with BFILEs is not supported in Oracle Database 10g.

XML Database (XML DB)
The following XML DB components are not supported in this release:
- WebDAV access
- HTTP access
- FTP access

Known Bugs
This section provides a list of known bugs with this release of Oracle Database 10g.

Note: For the latest information and workarounds for the bugs in this list, go to OracleMetaLink, which is at the following Website:
http://metalink.oracle.com

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3274855</td>
<td>ORA-00600: [kghstack_underflow_internal_2]</td>
</tr>
<tr>
<td>3420185</td>
<td>PROC batch – CMDLINE filespecs as PDS members or using comma delimiter do not work. Workaround: Use //DD: or DD</td>
</tr>
<tr>
<td>3443934</td>
<td>ATTN (TSO) or CTR-C (POSIX shell) from RMAN can cause a loop</td>
</tr>
<tr>
<td>3455276</td>
<td>CTR-C from SQLPLUS may give errors</td>
</tr>
<tr>
<td>3467355</td>
<td>ORA-nnnnnnnnn: Message nnnnnnnnn not found occurring during error handling. nnnnnnnnn can vary</td>
</tr>
<tr>
<td>3470354</td>
<td>Asynch parallel DBMS_DEFER_SYS.PUSH from within PL/SQL block with XM dblink hangs. This is unsupported but should not hang.</td>
</tr>
<tr>
<td>3483016</td>
<td>ORA-3113 on RAC reconnect attempt after instance abort</td>
</tr>
<tr>
<td>3511137</td>
<td>Potential loop in thread reader/writer</td>
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<tr>
<td>Bug Number</td>
<td>Description</td>
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<tr>
<td>------------</td>
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<tr>
<td>3527035</td>
<td>ORA-10388: parallel query server interrupt during STREAM apply</td>
</tr>
<tr>
<td>3572959</td>
<td>OWA_UTIL gets PLS-00307: TOO MANY DECLARATIONS OF 'BIND_VARIABLES' MATCH THIS CALL</td>
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</tbody>
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