Oracle7 Server for Digital Alpha Windows NT

Release Notes

Release 7.3.4
January 1998

A59718_01

These Release Notes document important last minute features and limitations not included in the Oracle7 Server for Windows NT documentation set. These Release Notes are divided into the following sections:

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**System Requirements**

Before you install Oracle7, check the following hardware requirements:

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</tr>
</thead>
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<tr>
<td>96 MB RAM recommended minimum</td>
</tr>
<tr>
<td>200 MB hard disk space.</td>
</tr>
<tr>
<td>25 MB additional hard disk space for Advanced Replication</td>
</tr>
<tr>
<td>65 MB additional hard disk space for Oracle Context</td>
</tr>
<tr>
<td>1 MB additional hard disk space for Oracle7 Spatial Data Option</td>
</tr>
<tr>
<td>20 MB additional hard disk space for Oracle7 Enterprise Manager Performance Pack</td>
</tr>
<tr>
<td>54 MB additional hard disk space for Oracle7 Documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oracle7 Client Application User Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 MB RAM recommended minimum (supporting OEM)</td>
</tr>
<tr>
<td>50 MB hard disk space.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oracle7 Client Database Administrator Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 MB RAM recommended minimum (supporting OEM)</td>
</tr>
<tr>
<td>110 MB hard disk space.</td>
</tr>
</tbody>
</table>
Installation

The installation of Oracle8 Enterprise Edition will not complete successfully if the machine hosting the installation has services running which use Microsoft Development libraries.

Explanation

If services are running that make use of oleaut32.dll (the OLE dll) or mscvrt*.dll (the MSDEV C++ runtime libraries,) the dll files are locked and cannot be overwritten. This causes a Write-error for the given dll and the installation exits.

Documentation

Oracle Enterprise Manager Performance Pack

Please note that page 11-16 of the Oracle7 Server Getting Started Release 7.3.4 for Windows NT states that the Performance Pack of Oracle Enterprise Manager is not included on the Oracle Server CD. This statement is incorrect; the Oracle Enterprise Manager Performance Pack Tools are included on the Oracle7 Server Release 7.3.4 for Digital Alpha Windows NT CD and are separately licensable.

Note: Oracle Server Release 7.3.4.0.0 and Oracle Enterprise Manager Version 1.3.6.0.1 for Digital Alpha Windows NT are supported on a server or workstation running Digital Alpha Windows NT Version 4.0 Service Pack 3.0.

ATTENTION: Any references to Windows NT 3.51, NT_X86, or Windows 95 environment in the Oracle7 Server documentation is not applicable to Digital Alpha Windows NT.
**SQL*Plus**

The SQL*Plus User’s Guide and Reference incorrectly states that the DEMOBLD file creates a LOGIN file in your current directory. The LOGIN file is not created when you run DEMOBLD; the Oracle Installer copies LOGIN.SQL to the \DBS subdirectory of your Oracle home directory when you install SQL*Plus.

**Oracle Context Workbench**

Note that pages 20-22 of the Oracle7 Server and Client Installation Guide (CD insert) should not be referenced because Oracle Context Option Configuration Manager and Oracle Context Option Viewer Cartridge are not supported with this release.

**Multi-Language Support**

Oracle7 supports over 40 languages and 145 character sets. It also provides full localization in the following languages:

- French
- German
- Italian
- Japanese
- Spanish

Virtually all components of Oracle7 have been translated into these languages, including the software user-interface of components such as:

- error messages
- backup and recovery messages
- installation messages
For other languages, Oracle7 fully supports processing of data in the selected language, such as storing, retrieving, and display of data, but the user-interface files are installed in English.

**Note:** The Oracle Enterprise Manager, including the Performance Pack, only supports English at this time.

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**NT Backup Manager**

NT Backup Manager does not support backup of raw database files that exist on physical drives. You can backup raw database files that exist on logical drives.

**Upgrading Oracle ConText Option**

This section describes how to upgrade from a previous release of Oracle ConText Option to release 2.3.4. If you are upgrading Oracle ConText Option, do not perform the configuration procedures described in Chapter 8 of *Oracle7 Server Getting Started Release 7.3.4 for Windows NT*. Those instructions are for first time installations of Oracle ConText Option.

**Attention:** Upgrading to Oracle ConText Option release 2.3.4 is a two-step process. You must first upgrade your Oracle7 Server database to release 7.3.4. After completing that task, you can upgrade to Oracle ConText Option release 2.3.4.

---

To upgrade to Oracle ConText Option release 2.3.4:

1. Ensure that all Oracle ConText servers are shut down.
2. Start Server Manager:
   
   ```
   C:\>SVRMGR23
   ```
3. Connect with the CTXSYS account:

   ```
   SVRMGR> CONNECT CTXSYS/CTXSYS
   ```
4. Run the UPG2000.SQL script:
   `SVRMRG>@%ORACLE_HOME%\CTX73\ADMIN\UPG20000.SQL`

5. Run the UPG23400.SQL script:
   `SVRMRG>@%ORACLE_HOME%\CTX73\ADMIN\UPG23400.SQL`

6. Start the Oracle ConText server with the DDL (D) personality:
   `C:\> CTXSRV73 -USER CTXSYS/CTXSYS -PERSONALITY D`

7. Run CTX_DDL.UPGRADE_INDEX for each existing Oracle ConText index that must be upgraded for use in release 2.3.4. This task should be performed by the owner of the policy/index, but can also be performed by CTXSYS. For example, if a policy/index named DOC_POL1 is owned by user CTXDEMO:
   a. Start SQL*Plus:
      `C:\> PLUS33`
   b. Connect as the CTXDEMO user:
      `SQL> CONNECT CTXDEMO/PASSWORD`
   c. Enter the following command:
      `SQL> EXEC CTX_DLL.UPGRADE_INDEX('DOC_POL1');`
      where DOC_POL1 is the name of the policy/index to upgrade.

Additional Information: See Chapters 3 and 11 of the Oracle ConText Option Administrator's Guide for more information about shutting down and starting Oracle ConText servers and using CTX_DDL.UPGRADE_INDEX, respectively.

Oracle Trace Collection Services
If you want to run trace collections of the Oracle7 Server using Oracle7 client utilities, you must execute the following script on your Oracle7 database:

1. Start Server Manager:
C:\> SVRMGR23

2. Connect as the SYS user:
   CONNECT SYS/PASSWORD

3. Run the following script:
   SVRMGR> @%ORACLE_HOME%\OTRACE73\ADMIN\OTRCSVR.SQL

4. Exit Server Manager:
   SVRMGR> EXIT


Oracle Web Application Server

Oracle7 Server Getting Started Release 7.3.4 for Windows NT describes Oracle WebServer release 2.1. Only Oracle Web Application Server 3.0 is supported with Oracle7 7.3.4.0.0.

SQL*Net

There are limitations for:
  - Oracle Names Server
  - 16-Bit SQL*Net Release 2.3.2 Connections To a Release 7.3.4 Server
  - Dead Connection Detection

Oracle Names Server

You should use the NT Control Panel to start the Oracle Names Server. For some configuration of Oracle Names Server, you may not be able to bring up the Names Server successfully using the NAMESCTL utility.
16-Bit SQL*Net Release 2.3.2 Connections To a Release 7.3.4 Server

If you try to connect a 16-bit client using SQL*Net release 2.3.2 to a 7.3.4 server, the SQLNET.AUTHENTICATION_SERVICES=(NONE) authentication parameter must be added to the SQLNET.ORA file.

SQL*Net has two different implementations for 2.3.2 and 2.3.3/2.3.4. When you try to use incompatible versions, you may receive a General Protection Fault from the client machine.

SQLNET.AUTHENTICATION_SERVICES=(NONE) is automatically added to the SQLNET.ORA file if SQL*Net release 2.3.3/2.3.4 is installed, but this parameter is not automatically added to the SQLNET.ORA file in versions prior to release 2.3.3. Likewise, if SQL*Net release 2.3.3/2.3.4 is installed over an older installation, SQLNET.AUTHENTICATION_SERVICES=(NONE) is not added to an existing SQLNET.ORA file.

If this parameter is not specified, SQL*Net will go through the authentication process even if a user name and password are specified. This means connections may be slower, and you may receive a General Protection Fault if the SQL*Net versions are incompatible.

Dead Connection Detection

Dead Connection Detection is not implemented for Named Pipes connections.
**Oracle Network Products**

Please replace pages 2-2 through 2-7 in your Oracle Networks Products Getting Started Release 2.3.4 for Windows Platforms with the following tables.

Table 1–1 lists each supported Oracle Network Product, its release number, and the Windows platform on which it can be installed.

**Table 1–1 Oracle Network Products Availability on Digital Alpha**

<table>
<thead>
<tr>
<th>Oracle Network Product</th>
<th>Release</th>
<th>NT Server</th>
<th>NT Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL*Net</td>
<td>2.3.3(^1)</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>SQL*Net</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Oracle Protocol Adapters:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCP/IP Protocol Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>SPX Protocol Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Named Pipes Protocol Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>NetBIOS Protocol Adapter</td>
<td>2.3.4</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>LU6.2 Protocol Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Bequeath Protocol Adapter (automatically installed with SQL*Net for local connections)</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>SQL*Net Configuration Tools:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SQL*Net Easy Configuration(^2)</td>
<td>n/a</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Oracle Network Manager(^3)</td>
<td>3.1.0</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Client Status Monitor and SQLNET.ORA Editor</td>
<td>2.3.4</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Oracle Names Server</td>
<td>2.0.4</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>SQL*Net Authentication Adapters:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows NT Authentication Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Advanced Networking Option(^4):</td>
<td>2.3.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Security and Single Sign-On</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>SecurID Authentication Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Oracle Network Product</td>
<td>Release</td>
<td>NT Server</td>
<td>NT Client</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>---------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Kerberos Authentication Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Biometric (Identix) Authentication Adapter</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>DCE Integration</td>
<td>2.3.4</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

1 SQL*Net on Windows contains release 2.3.3 functionality.
2 SQL*Net Easy Configuration and the 16-bit Client Status Monitor and SQLNET.ORA Editor are automatically installed with SQL*Net. For information on the Client Status Monitor and SQLNET.ORA Editor, see the Oracle Network Products Troubleshooting Guide.
3 Oracle Network Manager is a 16-bit application. It is not available for installation from the Windows 95 or Windows NT subdirectories of your CD-ROM disc. To install and run Oracle Network Manager on either Windows 95 or Windows NT, go to the \WINDOWS subdirectory of your CD-ROM disc, and run ORAINST or SETUP. Then, select Custom Installation to install Oracle Network Manager.
4 DES and Domestic Advanced Networking Option (ANO) are packaged separately from SQL*Net, and Export is included on the Oracle7 Server 7.3.4.0 CD but is licensed separately. ANO must be the identical release (up to the third digit) to SQL*Net on the same machine. For example, if you have SQL*Net release 2.3.4 installed on a machine, the ANO release must be 2.3.4 as well. For client-to-server connections, ANO requires at least SQL*Net 2.3.2.1.5 for Windows NT and Windows 95 and at least SQL*Net 2.3.2.1.4 for Windows 3.1x. ANO is not compatible with earlier versions of SQL*Net. Different machines do not require the same releases of ANO and SQL*Net.
Oracle Network Products Compatibility

Table 1–2 shows the Oracle Network Products releases that are compatible with that Oracle7 database and Oracle8 database releases.

NOTE: A client and server or two servers running different versions of SQL*Net connect successfully. The SQL*Net functionality, however, defaults to the lower version.

### Table 1–2 Compatible Releases

<table>
<thead>
<tr>
<th>Database Release</th>
<th>7.2.3</th>
<th>7.3.3</th>
<th>7.3.4</th>
<th>8.0.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL*Net(^1)</td>
<td>2.2.3</td>
<td>2.3.3</td>
<td>2.3.4</td>
<td>n/a</td>
</tr>
<tr>
<td>Names Server</td>
<td>2.0</td>
<td>2.0.3</td>
<td>2.0.4</td>
<td>8.0.3</td>
</tr>
<tr>
<td>Advanced Networking Option</td>
<td>n/a</td>
<td>2.3.3</td>
<td>2.3.4</td>
<td>8.0.3</td>
</tr>
<tr>
<td>Secure Network Services(^2)</td>
<td>2.0</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Net8</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>8.0.3</td>
</tr>
</tbody>
</table>

\(^1\) SQL*Net includes Oracle Protocol Adapters.
\(^2\) The functionality of Secure Network Services and SQL*Net/DCE are now included in the Oracle Advanced Networking Option.

Supported Vendors

Table 1–3 below lists the third-party software required for specific networking products:

### Table 1–3 Supported Protocol Adapter Vendors

<table>
<thead>
<tr>
<th>Networking Product</th>
<th>Supported Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP/IP Protocol Adapter</td>
<td>Microsoft TCP/IP</td>
</tr>
<tr>
<td>SPX Protocol Adapter</td>
<td>Microsoft NW Link(^1)</td>
</tr>
<tr>
<td></td>
<td>Note: For Microsoft NW Link, Client Service for NetWare must be installed.</td>
</tr>
<tr>
<td>Named Pipes Protocol Adapter</td>
<td>Microsoft NETBEUI</td>
</tr>
</tbody>
</table>
Oracle7 Client for Windows Platforms

This section of the Release Notes applies to Oracle7 client products for all Windows platforms. It includes the following topics:

- Pro*C/C++ Release 2.2.4.0.0 Production for Windows Platforms
- Pro*Cobol Release 1.8.4.0.0 for Windows Platforms
- Client Software Manager

**Pro*C/C++ Release 2.2.4.0.0 Production for Windows Platforms**

These Release Notes include updated information and known restrictions for using Pro*C/C++ on Windows platforms.

**Performance**

To improve the precompile time performance of Pro*C/C++, WIN32_LEAN_AND_MEAN is defined in the configuration file PMSCFG.CFG, which is located in the PRO22 directory under

---

### Table 1–3  Supported Protocol Adapter Vendors (Cont.)

<table>
<thead>
<tr>
<th>Networking Product</th>
<th>Supported Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LU6.2 Protocol Adapter</td>
<td>Microsoft SNA Server version 3.0</td>
</tr>
<tr>
<td>Windows NT Authentication Adapter</td>
<td>Microsoft</td>
</tr>
<tr>
<td>ANO DCE Integration Protocol Adapter</td>
<td>Digital DCE Runtime Services Kit version 2.0</td>
</tr>
<tr>
<td>ANO SecurID Authentication Adapter</td>
<td>No vendor software requirements on an Oracle7 client, but a SecurID card is needed</td>
</tr>
<tr>
<td>ANO Kerberos Authentication Adapter</td>
<td>No vendor software requirements on an Oracle7 client or server</td>
</tr>
<tr>
<td>ANO Biometric (Identix) Authentication Adapter</td>
<td>Identix hardware and driver on an Oracle7 client.</td>
</tr>
</tbody>
</table>

---

1 If you run more than three concurrent SPX client applications from Windows 95 that connect and disconnect repeatedly, some of the applications may hang or there may be a trap in the protocol layer.
%ORACLE_HOME%. Defining WIN32_LEAN_AND_MEAN will force Pro*C/C++ to parse a limited number of files included by windows.h. For more information, read the release notes for Microsoft Visual C++ 5.0.

**Configuration File Options**

A configuration file cannot contain the following options: FARCALL, OS, REENTRANT, and VER.

**Known Issues**

- When using the custom build option with Microsoft Visual C++ Version 4.2, it does not maintain project dependencies in some cases. If Microsoft Visual C++ does not precompile or compile files when it should, contact Microsoft Support for more information.

- When building sample programs that run SQL scripts in Microsoft Visual C++, the SQL command DROP TABLE may cause an error in the Microsoft Visual C++ error count. Ignore this error and continue.

**Pro*Cobol Release 1.8.4.0.0 for Windows Platforms**

A configuration file cannot contain the following options: ANIM, OS, and VER.

**Client Software Manager**

For Oracle Client Software Manager (OCSM) installations, SQL*Net Easy Configuration is not supported on client machines. To use the product, first run SQL*Net Easy Configuration on the OCSM host machine before distributing software to client machines.

Automatic detection of networking protocol stacks does not occur when an OCSM host machine distributes products to client machines. The same networking products installed on the OCSM host machine are therefore installed on the client machines.

**Oracle Information Navigator Performance**

When you choose to view Oracle7 documentation (Java Version), the Oracle Information Navigator takes several seconds to appear. The applet is not malfunctioning; the next release will come up faster.
Electronic README Files

You will find several README files included with your Release 7.3.4 products. Though this Release Note contains all of the vital information you need, other important information is contained in the README files. README files may be included for products you did not purchase/license; their presence does not mean that you may use their products. The README files are referenced here for your convenience; you can also find them residing in their products’ directories.

Oracle7 README Files

Oracle7 Server Release 7.3.4--Readme
Product Pro*C 2x -- Readme
Installing the Oracle7 Context Option Demos
Oracle Objects for OLE Bound Widget Library and C++ Class Library Workbook
Oracle Objects for OLE 2.2.2 -- OCX Data Control
Oracle ConText Option Release 2.3 (Version 2.3.4) - Release Notes
Distributing Oracle Software with Microsoft’s Systems Management Server (SMS)
Oracle ConText Option Workbench -- Release Notes -- Release 2.3.4.0.1
Oracle Replication Manager Version 1.3.6.0.0 -- Release Notes
Oracle Enterprise Manager Production Version 1.3.6.0.1 -- Readme/Release Note
Oracle Intelligent Agent Readme--Release 7.3.4 Production
Oracle Enterprise Manager (OEMGR) Software Developer’s Kit (SDK) Production Release 1.3.6 --Readme/Release Note
Oracle JDBC Drivers 7.3.4 -- README
Oracle7 32-bit ODBC Driver for Windows NT and Windows 95 -- Version 2.5.3.1.0b Production -- Release Information
Oracle Network Manager 3.1.0.5.1 -- Release Notes
Known Problems and Workarounds

Please note the following known problems in this release of Oracle7 Server:

- `lsnrctl` does not support the Agent control and informational commands `dbsnmp_start`, `dbsnmp_stop` and `dbsnmp_status`. Use the Services display in the Control Panel to start, stop and check the status of the Agent.

- The Oracle Installer copies `GLOGIN.SQL`, a global LOGIN file, to your `SQL*Plus` directory. The `GLOGIN.SQL` file is similar to the `LOGIN.SQL` file, except that `GLOGIN.SQL` can be used to set preferences that all `SQL*Plus` sessions can use.

- On Windows NT, an SPX connection will work only if the machines have the `nwlink SPX/IPX transport protocol` installed with the Client Services for NetWare (included on the Windows NT installation media.)

- When started, the Intelligent Agent dynamically creates queue files. The presence of these files from an earlier version of the Intelligent Agent may cause the Agent to behave unpredictably. The customer should delete any files of the form `*.q` or `tcl*.*` from the directory `%ORACLE_HOME%\network\agent\`.

- If the Oracle Intelligent Agent 7.3.4 is unable to connect to a managed database, your connect string may be too long. (Bug 573197)

Work-around:

Copy the `snmp.address.<host_name>` parameter from your `%ORACLE_HOME%\network\admin\snmp_ro.ora` file.

Paste this address and parameter into `%ORACLE_HOME%\network\admin\snmp_rw.ora` file.

In `snmp_rw.ora`, reduce the size of this connect string by removing the address entries for IPC. (NMP and SPX may also be removed.)

Shutdown/restart the agent. See examples below.
EXAMPLES:

1. Entry to be copied out of SNMP_RO.ORA:

```sql
snmp.address.ORCL_MACHINE-PC = (DESCRIPTION=(ADDRESS_LIST
= (ADDRESS=(PROTOCOL= IPC)(KEY= oracle.world))
(ADDRESS=(PROTOCOL= IPC)(KEY= ORCL))
(ADDRESS=(COMMUNITY= TCP.world)(Host = machine-pc)(PROTOCOL=
TCP)(Port= 1521))
(ADDRESS=(COMMUNITY= TCP.world)(Host = machine-pc)(PROTOCOL=
TCP)(Port= 1526)))
(CONNECT_DATA=(SID=ORCL)(SERVER=DEDICATED)))
```

```sql
ifile = E:\ORANT\network\admin\snmp_rw.ora
```

2. Modified entry in SNMP_RW.ORA:

```sql
snmp.address.ORCL_machine-PC = (DESCRIPTION=(ADDRESS_LIST
= (ADDRESS=(COMMUNITY= TCP.world)(Host = machine-pc)(PROTOCOL= TCP)(Port=
1521))
(ADDRESS=(COMMUNITY= TCP.world)(Host = machine-pc)(PROTOCOL=
TCP)(Port= 1526)))
(CONNECT_DATA=(SID=ORCL)(SERVER=DEDICATED)))
```

Release Restrictions

Please note the following items are not supported with this release of the Oracle7 Server 7.3.4.0.0 on Digital Alpha Windows NT:

- Oracle Biometrics Manager
- Biometric (Identix) Authentication Manager (Client side)
- Oracle CyberSAFE Authentication Adapter
- NDS Native Naming Adapter (Server side)
- Oracle Context Option Configuration Manager
- Oracle Context Option Viewer Cartridge
- Oracle DECnet Adapter
- Enterprise Backup Utility (EBU)
- Legato Storage Manager (LSM)
- Oracle Media Server
- Oracle Migration Assistant for Microsoft Access
- Oracle Parallel Server Option
- Oracle Parallel Server Manager Server
- Oracle Parallel Server Manager Client
- Oracle WebServer Manager

We do not support the use of Intel Windows applications running under Intel emulation on a Digital Alpha platform to interact with an Oracle7 Server database.

Multithreaded Server is not supported on Windows NT 7.3.x. The Multithreaded Server permits many remote clients to connect to the database through relatively few shared dispatchers, which execute user queries through a small number of shared server threads. This lowers the resource requirements on the server machine, and allows more users to connect to the database than might otherwise be possible.

The use of multiple Oracle Homes and the capability of switching between Oracle Homes is not supported in this release.