

Oracle8i

Release Notes

Release 3 (8.1.7) Linux Intel

November 2000

Part No. A87386-01

This document accompanies Oracle8i Release 3 (8.1.7) for Linux Intel. Its contents supplement or supersede corresponding information found in the *Oracle8i Release 3 (8.1.7) Installation Guide for Linux Intel*.

The following topics are covered in this document:

- [Operating System Requirements](#)
- [Other Information Resources](#)
- [Default JDBC Driver Behavior](#)
- [Installation Issues and Restrictions](#)
- [System Management Products](#)
- [Heterogeneous Services Agent Control Utility](#)
- [New Features in Oracle8i Release 3 \(8.1.7\)](#)
- [Products not in the 8.1.7 Release on Linux Intel](#)
- [JDBC OCI Driver for JDK 1.2](#)

Operating System Requirements

Java Runtime Environment (JRE)

The JRE shipped with Oracle8i is used by Oracle Java applications such as Oracle Universal Installer and is the only one supported to run with these applications. Customers should not modify this JRE, unless it is done through a patch provided by Oracle Support Services.

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Java Development Kit (JDK)

JDK 1.1.8 is a prerequisite for Oracle HTTP [Apache] component. During the Release 3 (8.1.7) installation, you will be prompted to the JDK install home.

Note: If the JDK install home input is not valid, you will encounter Oracle HTTP [Apache] installation, configuration, and start-up errors.

Refer to the following web-site for JDK 1.1.8 recommended Linux OS patches:

<http://www.ibm.com/java/jdk/118/linux/>

Other Information Resources

This section contains these topics:

- [Product README Files and Release Notes](#)
- [Platform-Specific Documentation](#)
- [Online Support](#)
- [Revised, New, and Obsoleted Documentation for Release 8.1.7](#)

Product README Files and Release Notes

Check the Release Notes and README files in the `$ORACLE_HOME/relnotes` directory before using Oracle8i Release 3 (8.1.7). The README files are uncompressed and linked to the HTML file `index.htm` located at the top level of the CD-ROM.

Platform-Specific Documentation

The *Oracle8i Administrator's Reference Release 3 (8.1.7) for Linux Intel* and the *Oracle8i Installation Guide for Linux Intel* are available online on the Oracle8i software CD-ROM. To access the documentation in HTML and PDF formats, use a web browser running on a Linux system to open the `index.htm` file at the top level of the Oracle8i CD-ROM. This file contains links to product and Linux-specific documentation.

Online Support

The following websites have the most current information about products included with this release:

- <http://www.oracle.com/support>

- <http://technet.oracle.com>

Revised, New, and Obsoleted Documentation for Release 8.1.7

The Oracle8i Online Documentation CD-ROM contains guides listed as release 8.1.6 and 8.1.7. Only guides listed as release 8.1.7 have been updated since release 8.1.6. Guides listed as release 8.1.6 have not been revised, however, updates to some of these 8.1.6 guides may be included in:

- *These Release Notes*
- *Oracle8i Documentation Addendum*

Default JDBC Driver Behavior

In Oracle8i Release 3 (8.1.7) the default behavior for the `ResultSet::getXXXStream()` APIs have been modified to comply with the JDBC specification so that they return null values for database null LONG/LONG RAW values. In earlier versions of the 8.1.x JDBC drivers, the default behavior was to return the empty stream for database null values. To restore the earlier JDBC default behavior when using the 8.1.7 drivers, you must use the Java property `jdbc.backward_compatible_to_8.1.6`. For example, if this Java property is set at the virtual machine runtime, the command

```
java -Djdbc.backward_compatible_to_8.1.6 myJavaProgram
```

will cause the 8.1.7 JDBC drivers to return empty streams from calls to `ResultSet::getXXXStream()`.

The `jdbc.backward_compatible_to_8.1.6` Java property applies to 8.1.7 JDBC Thin driver and OCI driver.

Installation Issues and Restrictions

This section contains these topics:

- [Using Hummingbird Exceed](#)
- [Current Certification](#)
- [Known Upgrade Issues](#)
- [Oracle Universal Installer: Known Problems, Restrictions, and Workarounds](#)
- [Precompilers: Pro*C/C++](#)
- [Deinstallation](#)

Using Hummingbird Exceed

If you are using Hummingbird's Exceed X windows emulator while installing and using Oracle8i, set the window manager to run in "Native" mode so that Microsoft Windows functions as the window manager. See your Exceed documentation for instructions on configuring the window manager.

While Oracle supports the use of Exceed for installing and configuring products, users should be aware of the following common problem with using this X Windows Emulator for installation:

There is a bug in the way Exceed handles screen coordinates. The installer window and related installer dialogs or configuration assistants may encounter display problems when run through the emulator. These display problems may include the sudden truncation of the main window when clicking the [Next] button during the install, rendering the screen unreadable, or the expansion of an installer window such that the dialog buttons are displayed off the screen and are thus not selectable with a mouse. In such cases, users must exit the entire X Windows session and start a new session to fix the problem. Opening a new shell and re-running the installer from the shell does not fix the problem.

To correct any problems with hidden dialog fields try the following:

1. Select the `xconfig` application under the Exceed Program Group from the Windows Start Menu.
2. Select the "Fonts" Applet.
3. Click the [Font Database] button in the "Font Settings" dialog box.
4. Uncheck the "Automatic Font Substitution" option in the "Font Database" dialog box.
5. Click the [Add...] button. The "Add Font Directory" dialog box is displayed.
6. Click the [Server] radio button in the "Add Font Directory" dialog box.
7. Enter the hostname for your machine in the "Host Name" field in the "Add Font Server" dialog box. Leave all the other entries at their default settings.
8. Click [OK] and [Close] on all dialogs to save the settings.

Current Certification

Refer to <http://platforms.oracle.com/linux/> for the list of various Linux distributions certified to work with Oracle8i Release 3 (8.1.7).

Known Upgrade Issues

- Oracle8i Release 3 (8.1.7) for Linux Intel must be installed in a new ORACLE_HOME. If you try to upgrade older versions of Oracle8i to Release 3 (8.1.7) in the same ORACLE_HOME, you will get irreparable errors. This functionality is not supported in Release 3 (8.1.7) for Linux Intel.
- Before performing either a manual database upgrade or an automated database upgrade using Oracle Data Migration Assistant, make sure that `_SYSTEM_TRIG_ENABLED = FALSE` in the initialization parameter file. After completing the database portion of the upgrade, you must either remove the `_SYSTEM_TRIG_ENABLED` from the initialization parameter file or set it to `TRUE` before attempting any other upgrade steps, such as upgrading Oracle JServer. Refer to the *Oracle8i Migration Release 3 (8.1.7)* guide for more information about upgrade and migration.

Oracle Universal Installer: Known Problems, Restrictions, and Workarounds

- Ignore the following error when upgrading from release 8.0.x to 8.1.7. Despite the error message, the upgrade has completed successfully. Note that the error does not occur during upgrade from 8.1.x to 8.1.7.
`ORA-00604: error occurred at recursive SQL level 1`
- On slower computers you may notice a “flicker” at the Oracle Universal Installer loading screen. It does not affect the installation in any way.
- The *Help* window invoked from Oracle Universal Installer’s *Inventory* window cannot be scrolled or resized the second time it is accessed. A workaround is to close the *Inventory* window. The *Help* window is now accessible. Resize the *Help* window, then close it. The next time you invoke Help from the *Inventory* window, it will appear at that size. This is a bug due to Java Development (JDK) 1.1.8.
- Do not install release 8.1.5 after installing release 8.1.6 or 8.1.7. If you do so, release 8.1.6 or 8.1.7 is fully deinstalled and considered not functional because the required Java Runtime Environment (JRE) 1.1.8 is removed. Note that the same issue also applies to all non-ORACLE_HOME products that are shared between these installations.

Precompilers: Pro*C/C++

Modified system header files are shipped with this distribution. They are located in the `$ORACLE_HOME/precomp/syshdr` directory. At a minimum, the Pro*C/C++ configuration file (`pcscfg.cfg`) should include the following system headers as shown below; the example given is for a Red Hat 6.x system.

```
sys-include = (<oracle_home>/precomp/syshdr,  
             /usr/lib/gcc-lib/i386_redhat_linux/egcs_2.91.66/include/  
             /usr/include)  
include = (<oracle_home>/precomp/public)  
include = (<oracle_home>/rdlms/demo)  
include = (<oracle_home>/rdlms/public)  
include = (<oracle_home>/network/public)  
include = (<oracle_home>/plsql/public)  
include = (<oracle_home>/otrace/public)  
ltype = short
```

Replace <oracle_home> with the location of the Oracle8i installation.

Deinstallation

You cannot deinstall Oracle JServer separately from other products installed with Oracle8i Release 3 (8.1.7).

Deinstalling Oracle JServer causes Oracle Universal Installer to remove Oracle8i and other products dependent on Oracle JServer from your system.

System Management Products

This section contains these topics:

- [Oracle Intelligent Agent](#)
- [OEM_MONITOR Database Role](#)
- [Reinstalling Oracle8i Server](#)
- [Oracle Internet Directory](#)
- [Oracle Database Configuration Assistant](#)
- [Net8 Configuration Assistant](#)

Oracle Intelligent Agent

The installation model of Oracle Intelligent Agent has been modified as of release 8.1.7. The Oracle Intelligent Agent extensions (Oracle Applications Extensions, Oracle HTTP Server Extensions, Oracle EBusiness Management Tool Extensions, and so on) that allow management of the corresponding areas, are now separately installable.

This means that during installation, users can select the basic Oracle Intelligent Agent and separately select any of the Oracle Intelligent Agent extensions. Note that Oracle Data Gatherer is installed as part of the basic Oracle Intelligent Agent.

Before starting the Oracle Intelligent Agent `dbsnmp`, set the following environment variables:

- `PATH=$PATH:$ORACLE_HOME/Apache/perl/bin`
- `PERL5LIB=$ORACLE_HOME/Apache/perl/lib/5.00503`

OEM_MONITOR Database Role

The `OEM_MONITOR` role can be granted to any database user being used as a “preferred credential” when registering advanced (database) events available with the Oracle Enterprise Manager Diagnostics Pack.

This role is defined in `$ORACLE_HOME/rdbms/admin/catsnmp.sql` which is called by the catalog scripts at database creation time. In addition to the `OEM_MONITOR` role, the database user requires quota on their default tablespace within the monitored database, in order to have some of the advanced events evaluated. Failure to do so will result in an insufficient privilege message.

Reinstalling Oracle8i Server

If you reinstall Oracle8i Server into an `ORACLE_HOME` where Oracle8i Server Release 3 (8.1.7) is already installed, you must also reinstall any product options, such as Oracle Partitioning, that were enabled before you began the reinstallation.

Oracle Internet Directory

Several products included with Oracle8i Release 3 (8.1.7) are now directory-enabled and can take advantage of an LDAP version 3 directory server such as Oracle Internet Directory. Purchase of Oracle8i Release 3 (8.1.7) includes a restricted-use version of Oracle Internet Directory release 2.1.1 for Linux Intel that may only be used in conjunction with Oracle's directory-enabled components and products such as Net8, Oracle Advanced Security, Oracle8i, and all future directory-enabled Oracle products.

Oracle Database Configuration Assistant

When you use Oracle Database Configuration Assistant to create a Custom database that includes Oracle JServer, it can take over an hour to finish loading Oracle JServer into the database depending on your system's hardware configuration.

Net8 Configuration Assistant

In a Typical, silent installation of Oracle8i Release 3 (8.1.7), Net8 Configuration Assistant does not configure an IIOP listening end point to provide access to Oracle JServer. After installation, start the Net8

Configuration Assistant from the command line and configure an IIOP end point for the listener called “LISTENER.” For more information, see the *Net8 Administrator’s Guide*.

Heterogeneous Services Agent Control Utility

The Heterogeneous Services Agent Control Utility (`agtctl`) incorrectly reports its version as 8.1.0.0.0. The correct version of this utility is 8.1.7.0.0.

New Features in Oracle8i Release 3 (8.1.7)

In addition to the features listed in *Getting to Know Oracle8i*, the following new features are included in Oracle8i Release 3 (8.1.7) Linux Intel:

- [Oracle Enterprise Manager](#)

Oracle Enterprise Manager

Oracle made several enhancements in version 2 of Oracle Enterprise Manager. The architecture is now a 3-tier structure, which improves scalability and provides automatic load-balancing and failover for critical management services. This architecture provides support for multiple Enterprise Manager administrators, using different consoles to share real-time management information stored in a common repository. Moreover, the Oracle Enterprise Manager is now a Java-based application that you can run from a browser or as an installed Java application.

Products not in the 8.1.7 Release on Linux Intel

The following options are not available for installation with Release 3 (8.1.7) for Linux Intel:

- Parallel Server option
- Precompiler options -- Pro*COBOL, Mod*Ada, Pro*FORTRAN
- Legato Storage Manager
- Oracle 8i Visual Information Retrieval Cartridge
- XML SQL Utility
- JDBC for JDK 1.2 (JDBC for JDK 1.1 is supported)

JDBC OCI Driver for JDK 1.2

JDBC OCI Driver for JDK 1.2 is not supported in Release 3 (8.1.7) for Linux Intel. Although the following products are supported with JDK 1.1, they are

not supported on JDK 1.2. This is due to a dependency on JDBC OCI Drivers

- Oracle HTTP Server [Apache]
- Enterprise Java Beans
- SQL J

