

Oracle® Enterprise Manager

Release Notes

Release 2 (9.0.2) for UNIX

April 2002

Part No. A96639-01

This document summarizes the differences between Oracle Enterprise Manager and its documented functionality. Specifically, this document includes the release notes for the Enterprise Manager software components installed with the Oracle9iAS Infrastructure installation type.

See Also: *Oracle9i Application Server Release Notes, Oracle Enterprise Manager Web Site Release Notes*

1 Certification and System Requirements

The following sections include important information about system requirements that must be addressed before you run the Enterprise Manager software.

1.1 Solaris Patches Required for Intelligent Agent Release 9.0.2

In order to run Intelligent Agent Release 9.0.2 on Sun SPARC Solaris 2.6 and 2.7, the following Solaris operating system patches need to be applied:

On Solaris 2.6:

1. Solaris patch 105181-23 - Required by patch 105210-33. Refer to <http://sunsolve.sun.com/pub-cgi/retrieve.pl?type=0&doc=fpatches/105181>.
2. Solaris patch 105210-33 - Required by patch 105568-21. This patch is needed for the Agent due to a race condition of fork1 and env lock and thread safety issues with localtime_r.
3. Solaris patch 105568-21 - Required by 105210-33. This patch is needed for the Agent due to a race condition of fork1 and env lock.

On Solaris 2.7:

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1. Solaris patch 106541-14 - This patch is needed for the Agent due to a race condition of fork1 and env lock. This patch requires patch 107544-03.
2. Solaris patch 107544-03 - This patch is required by patch 106541-14.
3. Solaris patch 109104-04.

Please contact Sun's Technical Support to procure the above mentioned patches.

1.2 Java Runtime Environment (JRE) Requirements

The JRE is installed by various Oracle products. However, there is only one shared JRE per system. As a result, if after installing Enterprise Manager Release 9.0 you install a previous release of Enterprise Manager (i.e. Release 2.2), the JRE (Java Runtime Environment) installed as part of Release 9.0 will be downgraded automatically; no error messages will appear. This downgrade from JRE Release 1.1.8_12 to 1.1.8_10 will cause problems for Enterprise Manager Release 9.0. Consequently, do not install Enterprise Manager Release 2.2 after installing Enterprise Manager Release 9.0.

Installing a pre-9.0 Oracle database will also cause the same problem of downgrading the JRE. If you run into this situation, you can work around the problem by re-installing JRE 1.1.8_12 from the CD-ROM you installed Enterprise Manager Release 9.0 (most likely from a Release 9.0 CD-ROM). Re-install the JRE by re-installing Oracle Universal Installer; as the Installer has a dependency on the JRE.

2 General Issues and Workarounds

This section describes general issues and their workarounds for Enterprise Manager components installed with the Oracle9iAS Infrastructure.

2.1 Console Issues and Workarounds

The following issues and workarounds apply to the Oracle Enterprise Manager Console.

2.1.1 Login Dialog Box Displays in Background

If you select a different window after launching the Console, the login dialog will not display in the foreground. You may need to minimize any active windows or use ALT -> tab and select the Console application to bring the login dialog to the foreground. (Bug 806713)

2.1.2 Agent Error During Discovery

During discovery of remote nodes and their targets, if the node is available and reachable via the network, but the Intelligent Agent on that node is down, the discovery wizard usually displays the following error:

```
VNI-4009 : Cannot contact agent on the node. Agent may be down or network communication to the node has failed.
```

However, in some cases, the following error appears instead:

```
VNI-4044 : Cannot contact agent. Node may be down, or the network may be down or slow.
```

If this alternate error occurs, log on to the remote node and check the status of the Intelligent Agent via the `agentctl` utility:

```
agentctl status agent
```

If the Agent is down, start the Agent using the following command and try performing the discovery operation again (Bug 1874173):

```
agentctl start agent
```

2.1.3 Returning to a Dialog Box from the Help Window

When you open a modal dialog box in an Oracle Enterprise Manager application (a modal dialog box is one that requires user action before being able to return to the application) and request context-sensitive help on that dialog box, the help is displayed in a modal help topic window. Before you can return to the modal dialog box, you must close the help topic window that is displaying the help topic for the modal dialog box.

2.1.4 Non-English Help Topics

For non-English versions of Enterprise Manager, certain inconsistencies may appear in the non-English versions of the online help.

2.1.5 Problem Displaying Console When Connecting to a New Management Server

When connecting to a new OMS and before painting the right hand side of the console window (the detail panel), the Enterprise Manager console may stop responding. The workaround is to kill the process and restart. (bug 1702853)

2.1.6 Using the Oracle9i Agent with a Pre-9i Database

When installing an Oracle9i Agent on a machine running a pre-9i database, you must re-run a version-specific copy of `catsnmp.sql` which is located

in the `ORACLE_HOME/sysman/admin` directory of the Oracle9i Enterprise Manager client install. For example, if you are running Oracle 8.1.7 on a machine and then install a 9i Agent, you must re-run the `catsnmp_8i.sql` script after installing the new Agent. This operation must be performed for each pre-9i database serviced by this Agent.

Do not run the Oracle9i version of the `catsnmp.sql` script against pre-9i databases.

2.1.7 Problem Displaying Netscape Browser in Non-English Environments

In non-English deployments of Enterprise Manager on Solaris (and possibly other UNIX based platforms), launching the Netscape browser to show HTML files from an Enterprise Manager application may not work.

For instance, if you select **Latest Product Information** from the Console **Help** menu, nothing appears. (Bugs 2188802 and 2191034)

To workaroud this problem, perform the following steps.

Note: This workaround assumes you are creating a script called `/usr/local/bin/altbrowser`. We also assume your default Netscape browser is launched using the following command:

```
/usr/local/bin/netscape
```

You must specify forward slashes (/) and backslashes (\) as they are shown in the workaround. There should be no spaces between slashes.

1. Create an executable shell script called `altbrowser` that contains the following:

```
#!/bin/sh
ns=/usr/local/bin/netscape
# ---> ns is the absolute path of the actual browser.
unset XFILESEARCHPATH # this is the workaround.
$ns "$@" "$@" should be used instead of $*
# to allow white spaces as the argument
```

2. Change the file permission to be able to execute.

```
% chmod 755 /usr/local/bin/altbrowser
```

3. In the `ClientConfig.properties` file, add the following line to the end of the file:

```
user.browser=/usr/local/bin/altbrowser
```

The `ClientConfig.properties` file is located in the following directory:

```
$ORACLE_HOME/sysman/config/
```

2.2 Reporting Issues and Workarounds

The following issues and workarounds apply to the Oracle Enterprise Manager reporting feature.

2.2.1 Accessing Published Reports with Enterprise Manager 9.0.2

You cannot access published reports out-of-the-box from the centralized Enterprise Manager Reporting Web Site in release 9.0.2. (Bugs 2196391 and 2205025)

The following manual configuration steps are required after installation in order for the Reporting Web Site to function properly. If these steps are not performed, Enterprise Manager displays the following error when you try to access the Reporting Web Site:

```
Error URL /em/OEMNavigationServlet was not found on this server
```

To remedy the problem:

1. Edit the Web server configuration file (`httpd.conf`) as follows:

- a. Locate the `httpd.conf` file located in the following directory:

```
$ORACLE_HOME/Apache/Apache/conf/
```

- b. Open the `httpd.conf` with your favorite text editor.

- c. Uncomment the following line:

```
include " /$ORACLE_HOME/Apache/Jserv/etc/jserv.conf "
```

2. Edit the JServ properties file (`jserv.properties`) as follows:

- a. Locate the `jserv.properties` file located in the following directory:

```
$ORACLE_HOME/Apache/Jserv/etc/
```

- b. Open the `jserv.properties` file with your favorite text editor.

- c. Comment out the following line:

```
wrapper.env.copy=DISPLAY
```

- d. Add the following line:

```
wrapper.env=DISPLAY=<full hostname of the reporting web server>
```

Note: Obtain the full hostname of the reporting Web server using the following command:

```
echo $DISPLAY
```

3. Stop the Web server using the following command:

```
opmnctl stopall
```

4. Start the Web server using the following command:

```
opmnctl startall
```

2.2.2 Web Server Conflict When Accessing the Reporting Web Site

If the `ServerName` property specified in the `oem.conf` file is different from the Web server hostname that is used to configure reporting, then you will encounter the following error when trying to access the Enterprise Manager Reporting Web Site:

```
The management server <hostname> is using a different webserver <hostname> for Enterprise Manager reporting services. This webserver <hostname> will be deconfigured and will no longer support Enterprise Manager reporting. To access Enterprise Manager Reports in the future, please use the webserver <hostname>.
```

To fix this problem, ensure that the `ServerName` property specified in the `oem.conf` file located in the `$ORACLE_HOME/oem_webstage/` directory is the same as the Web server hostname that is provided to configure reporting with the `oemctl configure rws` command.

For example, if the `ServerName` property in `oem.conf` is `foo.oracle.com` then when you run `oemctl configure rws`, be sure to specify `foo.oracle.com` for the Web server hostname. (Bug 1696527)

2.2.3 Configuring the Reporting Web Site

In order to configure the Enterprise Manager Reporting Web site, you must run the 'oemctl configure rws' command at the command line on the machine which runs the reporting Web server, and supply the appropriate information as prompted. (Bug 1709809)

Note: The Management Server must be installed on the same machine as the reporting Web server.

2.2.4 Viewing Reports in a Non-English Environment

If you view Enterprise Manager reports in a non-English environment from Microsoft Internet Explorer release 5.0, you may see garbled, non-legible text in the reports. To workaround this problem, either view the reports from Microsoft Internet Explorer release 5.5 or from Netscape Navigator release 4.7. (Bug 1773959)

2.2.5 Internal Server Error when Accessing Reporting Web Site

When accessing Enterprise Manager reports from a Web browser, you may see a blank page or the following error:

```
Internal Server Error: The server encountered an internal error or
misconfiguration and was unable to complete your request. Please contact
the server administrator, you@your.address and inform them of the time
the error occurred, and anything you might have done that may have
caused the error. More information about this error may be available in
the server error log.
```

To resolve this error:

1. Review the Oracle HTTP Server `access_log` file, which is located in the following directory:

```
$ORACLE_HOME/Apache/Apache/logs/
```

If you find an Xlib error, such as the following, see [Section 2.2.5.1](#):

```
Xlib: Client is not authorized to connect to Server
java.lang.NoClassDefFoundError: sun/awt/motif/MToolkit
```

2. Review the Oracle HTTP Server error log file, which is located in the following directory:

```
$ORACLE_HOME/Apache/Apache/logs/
```

If you find an OPM error, such as the following, see [Section 2.2.5.2](#).

```
[error] OPM: EW: Fails to ping process with pid:11301. Probably the
process is hanging and can not response. In most cases, the JVM is
either heavily loaded or doing GC. Please increase the jvm timeout
value or decrease the jvm heap size to reduce the time of doing GC.
The process is about to be restarted.
```

2.2.5.1 Xlib Error If an Xlib exception occurred, perform the following steps to fix the problem:

1. Execute the `xhost +<host>` command on the X Window machine where you are accessing reports from a web browser.

For example, if your reporting web server is running on host `servlet1` and the X Window is running on host `xserv1`, then execute the following command on `xserv1`:

```
xhost +servlet1
```

If your UNIX machine does not meet the hardware requirements for running an X server, see [Section 2.2.6](#).

2. Specify the `DISPLAY` environment variable with the X Window machine name on the host where the reporting web server is running.

For example, if your reporting web server is running on host `servlet1` and the X Window is running on host `xserv1`, then execute the following command on `servlet1`:

If you are using the C Shell:

```
setenv DISPLAY xserv1:0.0
```

If you are using the B or K Shell:

```
DISPLAY=xwerv1:0.0; export DISPLAY
```

Verify that the X Window environment has been configured properly. For example, execute the `xclock` command. If you see the `xclock` window on your X Server (in this case, the reporting Web server), your X Window environment has been configured properly.

3. Restart the Oracle HTTP Server using the following command:

```
apachectl restart
```

2.2.5.2 OPM Error If an OPM error occurred, perform the following steps to fix the problem:

1. Increase the default time out value by updating the `ApJServVMTimeout` directive in the `jserv.conf`, which is located in the following directory:

```
$ORACLE_HOME/Apache/Jserv/etc/
```

Try setting the value to around 30 or 35.

2. Edit the `java heap size` by adding or updating the following lines in the `jserv.properties` file, which is located in the following directory:


```
$ORACLE_HOME/Apache/Jserv/etc/
```

The following values should be ideal:

```
wrapper.bin.parameters=-Xms64m  
wrapper.bin.parameters=-Xmx128m
```

3. Restart the Oracle HTTP Server.

2.2.6 Running a Pseudo X Server

If your computer does not meet the hardware requirements for running an X server, there is an alternative to the remote X server solution described in [Section 2.2.5](#). The alternative is to run a pseudo-X server such as the X Virtual Frame Buffer, or XVFB.

The main difference between XVFB and the standard X server software is that XVFB uses an in-memory virtual frame buffer instead of a hardware frame buffer. As a result, XVFB can be run on almost any Unix machine, including "headless" middle-tier machines which lack a hardware frame buffer and keyboard. If your UNIX vendor does not provide XVFB binary, then you must build the XVFB binary from the X.Org source code.

2.2.6.1 Building XVFB The following steps describe how to build XVFB on Solaris 8:

1. Download the X Window System source code.

Source code for XVFB is available from the X.Org's FTP server. The X Window System source code is distributed in a number of tar files. Only the first tar file is needed to build XVFB. The necessary tar file for version X11R6.5.1 is available at:

```
ftp://ftp.x.org/pub/R6.5.1/tars/xorg-1.tar.gz
```

Download and unzip/untar this tar file on the machine where XVFB is being built. This should create a top-level directory named xc (which stands for X Consortium, the former name of X.org).

2. Update the file `site.def`.

Configuration information for the build is specified in the `site.def` file, located in the `xc/config/cf/` directory. This file needs to be modified to indicate that XVFB should be built. Also, since it is not necessary to build all of the X Window System, a number of items in the `site.def` file can be commented out to speed up the build.

Finally, for Solaris, the `ProjectRoot` should be changed to `/usr/openwin`, which is the normal location for X-related files on Solaris. Or, simply copy this preconfigured `site.def` file to `xc/config/cf`.

3. Make World

The final step is to build the XVFB binary. The following software is required:

- Make

`/usr/ccs/bin/make` should be used

- A C Compiler

Sun WorkShop 6 is recommended, although `gcc` can be used.

Once you are ready to build XVFB, go to the `xc` directory and run the following command:

```
make World
```

After the build completes (about an hour), the `Xvfb` executable should be created in `xc/programs/Xserver/Xvfb`.

For a sanity check on the XVFB executable, run `ldd Xvfb` to make sure that the link succeeded. You should see something along the lines of:

```
libsocket.so.1 => /usr/lib/libsocket.so.1
libnsl.so.1 => /usr/lib/libnsl.so.1
libc.so.1 => /usr/lib/libc.so.1
libdl.so.1 => /usr/lib/libdl.so.1
libmp.so.2 => /usr/lib/libmp.so.2
/usr/platform/SUNW,Ultra-1/lib/libc_psr.so.1
```

2.2.6.2 Running XVFB

The following command line can be used to launch XVFB:

```
Xvfb :1 -screen 0 1x1x24
```

The XVFB binary must be run as root or must have the `suid` bit set. The `:1` argument indicates that the XVFB binary runs as server number 1 (the standard X server typically runs as server number 0). The `-screen` argument indicates that a single screen of size 1x1 with 24-bit pixel depth should be used. Note, since all images are generated off screen, the 1x1 screen size is sufficient for image generation purposes.

Since XVFB must remain running for the lifetime of the application, perhaps the best approach is to automatically launch XVFB during the machine's boot process. XVFB can then remain running as a background process until the machine is shut down.

Once the XVFB executable is running, client applications can connect to XVFB by setting the `DISPLAY` environment variable to `:1`. The `:1` setting indicates that server number 1 (the XVFB server) on the local machine should be used for all X graphics operations. When running in `Jserv`, the

DISPLAY environment variable should be set in `jserv.properties`, for example:

```
wrapper.env=DISPLAY=:1
```

2.2.7 Non-Legible Characters in Multibyte Character Set Environment

If you view Enterprise Manager reports in a Japanese, Simplified Chinese, or other multibyte character set environment, you will see garbled, non-legible characters in the reports. To fix this problem, perform the following steps. The following example assumes the Japanese Solaris environment: (Bug 1701315)

1. Locate the JServ properties file and open it with your favorite text editor.

The file is located in the following directory:

```
$ORACLE_HOME/Apache/Jserv/etc/jserv.properties
```

2. Uncomment the `wrapper.env=LANG=` line and set the appropriate OS locale value.

```
# Uncomment to set Java default locale based on the LANG environment
# variable.
#wrapper.env.copy=LANG
```

For example:

```
# Uncomment to set Java default locale based on the LANG environment
# variable.
wrapper.env.copy=ja
```

3. Restart the Oracle HTTP Server by using the `opmnctl` command.

2.2.8 Setting the Reporting Web Site Port Number

By default, the Enterprise Manager Reporting Web Site and browser-based Enterprise Manager use port 3339. However, if port 3339 is already in use by some other component, then during installation and post-installation configuration a different port will be assigned automatically to the Reporting Web Site and to the browser-based Enterprise Manager.

To obtain the new port number, review the `portlist.ini` file located in the following directory:

```
$ORACLE_HOME/install/
```

The `portlist.ini` file contains a property labeled `Enterprise Manager Reporting Port` which identifies the port being used by the Reporting Web site.

2.2.9 Forms, Metrics Clients, and Metrics Servers on the Reporting Web Site

Discovered Oracle Forms Servers, Oracle Metrics Clients, and Oracle Metrics Servers appear on the Reporting Web Site as ORACLE_FORMS_SERVER, ORACLE_METRICS_CLIENT, and ORACLE_METRICS_SERVER, respectively, and their corresponding product icons are missing. (Bug 1679949)

2.2.10 Problem with Non-English Titles in Netscape Navigator

Netscape may not display non-English titles or links correctly. If this happens, please set the character set appropriate to your language and select the option **Use my default-fonts, overriding document-specified fonts** in your Netscape browser. (Bug 1777348)

2.2.11 Small Font in Netscape Reports

If you click **View Report** from the Create Report dialog while using the Enterprise Manager Console on a Sun Solaris computer, the Netscape browser may display the report using a very small text font. To workaround this problem, perform the following steps: (Bug 2265174)

1. Go to Netscape preferences.
2. Click **Fonts** under the Appearance folder.
3. Select **Use my default fonts, overriding document-specified fonts**.
4. Refresh the HTML report.

2.3 Displaying Charts in Non-English Environments

For non-English environments, some charts may display some of the translated messages as square boxes or question marks. (Bugs 2274548, 2199733)

2.4 Event and Job Systems

The following release notes apply to the Event and Job Systems available from the Oracle Enterprise Manager Console.

2.4.1 Error When Creating or Editing an OC4J Up/Down Event

When you create or edit the OC4J Up/Down event, you may receive the following errors:

VTO-2001: Warning! An initialization error occurred. Some data may not be displayed correctly.

VTC-1331: The type oc4j is not available. A node with a target of this

type must be discovered before editing this job or event.

You can safely ignore these errors. The Up/Down event will still be registered and work successfully. (Bug #2200975)

2.4.2 Intelligent Agent 9.0.2 Required for

2.4.3 User Defined Events

If your User-Defined event has failed with the following error, the tagged output specific to user-defined events could not be found in standard output:

```
User Defined Event" failed: No result returned in
output:
```

This may mean your script failed to execute for a variety of reasons. Some things to look into:

1. Check that the path to the monitoring script you specified is correct
2. Check the execute permissions on the monitoring script
3. In the script text, check that the path to the interpreter specified is correct.
As an additional check, log on to the monitored node using the Node credentials used for the event, then make sure the monitoring script runs correctly.

2.4.4 Unsolicited events

Associating fixit jobs with unsolicited events is only supported by 9i Intelligent Agents.

2.4.5 Dynamic Modification of Registered Events

The following notes apply to registered events:

- If you would like to remove a fixit job associated with a registered event, then you need to select **<none>** from the drop-down fixit job selection. Simply unchecking the box **if ANY test triggers, run a fixit job** will not work and will fail with a "no changes detected" error. (Bug 1764786)
- If you change an existing event by only removing notification for an administrator, you will receive the following error and the change will not be performed:

```
The event edit was not submitted because no changes were detected
for this event.
```

To workaroud this problem, remove notification for the administrator and also perform another edit such as editing the event's description. (Bug 1761277)

2.4.6 Event Schedules

Pre-9i Agents do not support the "Day of the Week" or "Day of the Month" options for Event Schedules. When an event contains at least one target running a pre-9i Agent, then only the "On Interval" option for Event Schedules will be supported. However, the Create Event dialog will not disable the selection of the 2 other options -- "Day of the Week" or "Day of the Month". Selection of these 2 other options will result in error "*VNI-4022: Bad V1 schedule string*" when attempting to register the event. (Bug 1767845)

2.4.7 Dynamic Modification of Submitted Jobs

If you change a scheduled job by only removing notification for an administrator, you will receive the following error: "The job edit was not submitted because no changes were detected for this job" and the change will not be performed. To workaroud this problem, remove notification for the administrator and also perform another edit such as editing the job's description. (Bug 1761277)

2.4.8 Event Creation

During event creation, if targets are specified for an event AFTER selecting the fixit job for the event, then event registration against these targets may fail if these are not valid targets for the associated fixit job. If this problem occurs, first modify the fixit job by adding these additional targets. Make sure the job status for the newly added targets is 'Fixit'. Then, in the Registered pane in the Console, select and de-register the event from the targets where registration has failed. When the de-registration against those targets is complete, modify the event by adding back the targets. The event registration against those targets should succeed this time. (Bug 1772485)

2.4.9 Alerts

If the OS character set when the Intelligent Agent is started up and the database character set which the Agent is managing are different, the "Alert" event returns corrupted characters. This happens if alert.ora file has non-US7ASCII characters. (Bug 1689939)

2.5 Enhanced Notifications

If you configure a paging carrier with invalid entries and then test that paging carrier, it takes five minutes before a message appears indicating that it failed to send the test page. (Bug 1757910)

2.6 Multibyte Characters When Broadcasting Messages in the Event and Job System

Enterprise Manager does not support multibyte characters in both UNIX and NT environment. This is due to the restriction of these platforms. (Bugs 2165255, 2213911)

2.7 Database Management

2.7.1 Period Character in Schema Name

If a schema name contains a "." delimiter, when viewing objects under this schema, their details will appear to be empty. (Bug 1296054)

2.7.2 Restriction When Using Summary Advisor with Pre-9i Databases

For pre-9i managed databases, to use the Summary Advisor wizard, you need to have an external procedure agent setup in the listener.ora and trsnames.ora files. Refer to the Net8 Administrator's Guide for more information.

2.7.3 Operating System Authentication Restriction

OS Authentication will work only when connecting directly to a database (client/server mode). OS Authentication is not supported when connecting through the Management Server.

2.7.4 SP2-0738 Restricted command

If you get this error while running SQL*Plus Worksheet. The error also indicates that no server side file system access is allowed when SQL*Plus connects to OMS. In this case, a script is attempted to be executed on the OMS machine, where SQL*Plus process is run in restricted mode. For security reasons only client side scripts are allowed through the "Run Local Script..." menu. See the SQL*Plus Worksheet Help for additional information.

2.7.5 Using SQL*Plus Worksheet in Non-English Environment

In order to use SQL*Plus Worksheet in a language other than English, you must first modify the dbappscfg.properties file located in the DRIVE_LETTER:\ORACLE_HOME\sysman\config\ directory. Modify this file by adding a value for SQLPLUS_NLS_LANG; the value should be the same as the default NLS_LANG parameter.

2.7.6 Error Using NCHAR/NVARCHAR2 Columns in Japanese Environment

On a Japanese operating system only: When you insert data into or select from NCHAR/NVARCHAR2 column using "Graphical Select mode" against 8.1.7 database or earlier, you will get an error. You must use FREE SQL mode with 'N' keyword to insert into or select from NCHAR columns.
Example 1: INSERT INTO nchar_tab(ncol1, ncol2)values (N'XXX', N'YYY')
Example 2: SELECT ncol2 from nchar_tab where ncol1 = N'XXX'

2.7.7 Error Viewing Quick Tour

When selecting a database from the navigation tree, the Quick Tour button results in the error:

```
VTA-1002: Quick Tour could not show the URL:  
/oracle/sysman/qtour/dbapack{0}/dba.htm
```

A similar error occurs for each of the items under a particular database. The workaround is to launch the quick tours from the main console quick tour menu (Bug 1770792)

2.7.8 Error Using NCHAR/NVARCHAR2 Columns

When you insert data into or select from NCHAR/NVARCHAR2 column using "Graphical Select mode" against 8.1.7 database or earlier, you will get an error.

You must use FREE SQL mode with 'N' keyword to insert into or select from NCHAR columns.

Example 1:

```
INSERT INTO nchar_tab(ncol1, ncol2)values (N'XXX', N'YYY')
```

Example 2:

```
SELECT ncol2 from nchar_tab where ncol1 = N'XXX'  
(Bugs 1546466 and 1549367)
```


2.7.9 No Chinese Characters in SQL*Plus Worksheet

SQL*PlusWorksheet cannot show correct Chinese characters when connected to an OMS (Bug 1686104). The workaround is to specify the following in dbappscfg.properties(Solaris only):

```
SQLPLUS_LD_LIBRARY_PATH = SIMPLIFIED CHINESE_CHINA.ZHS16GBK, SQLPLUS_LD_LIBRARY_PATH = $ORACLE_HOME/lib and SQLPLUS_ORACLE_HOME = $ORACLE_HOME
```

2.8 Oracle Management Server / Repository

2.8.1 Connections from Solaris to HP or Siemens SNI

If your Management Server is running on a Solaris node and the Enterprise Manager repository database is running on either an HP 10.20 node or a Siemens SNI node, then you need to set the following SQLNET.ORA parameter on the Management Server node:

```
DISABLE_OOB=ON
```

The SQLNET.ORA file is located in the \$ORACLE_HOME/network/admin/ directory, where \$ORACLE_HOME is the directory where the Management Server is installed. This parameter will prevent sqlnet connection hangs that are caused by differences in the way Sun's and HP's/Siemen's TCP layers handle simultaneous urgent messages on the same socket.

After you set this parameter, you need to stop and re-start the Management Server.

2.8.2 Repositories in 8.1.6.x, 8.1.7.0, or 8.1.7.1 Databases

If your repository is in database release 8.1.7.0 or 8.1.7.1, be aware that database base bug 1393049, which causes some SQL queries to return incorrect results, may affect Enterprise Manager in a variety of ways. For example, the bug may manifest itself through Enterprise Manager via incorrect lists of events or jobs in history; incorrect list of event alerts; incorrect list of active jobs, invalid notifications being sent, etc.

To fix the problem, refer to the table below:

If Repository Resides in Database Release...	Then Fix the Problem by...
8.1.7.0 for all operating systems	Upgrading your database to release 8.1.7.2
8.1.7.1 for all operating systems	Upgrading your database to release 8.1.7.2 or Apply one-off patch for bug 1765292

To avoid these known database problems entirely, Oracle recommends that you create your repository in a release 9.0.1, 8.1.7.2, or 8.1.7.1 (Sun SPARC Solaris only) database. (Database Base Bug 1393049)

2.8.3 Repositories in 8.1.7.x Databases

If your repository is in database release 8.1.7.x for any operating system, Oracle recommends that you apply the patch for bug 1733170. Failure to apply this patch may result in intermittent Management Server faults due to segmentation violations. (Database Base Bug 1733170)

2.8.4 Using an Enterprise Manager 9.0.1 Repository

To use a release 9.0.2 Management Server with a release 9.0.1 Enterprise Manager Repository, perform the following configuration steps after installation:

1. Shutdown all running 9.0.1 and 9.0.2 Management Servers.
2. From each release 9.0.2 Management Server machine that is to be used, perform the following steps:
 - a. Run Enterprise Manager Configuration Assistant Release 9.0.2 to reconfigure the Management Server.

When prompted, select **Configure local Oracle Management Server**; then, choose **Edit**, and supply the release 9.0.1 Repository connection information.

- b. Run the following command:

```
oemctl import registry $ORACLE_HOME/sysman/admin/OMSIASRegistry.registry
```

3. Start all 9.0.2 Management Servers. Do not start any 9.0.1 Management Servers as they will no longer be used.

2.9 Browser- based Enterprise Manager

2.9.1 Sizing the Console Window

After logging into browser-based Enterprise Manager, the Console will initially be 1/4 its normal size and appear in the upper left corner of the screen. To workaroud this problem, resize the Console whenever this occurs. (Bug 1636481)

2.9.2 Running the Browser-Based Console in Netscape Navigator

If you are running browser-based Enterprise Manager from a Netscape browser, do not specify *.<domain> in the manual proxy configuration.

For example, do not specify `*.us.oracle.com`. Instead, specify `.<domain>`. For example, `us.oracle.com`. (Bug 1936133)

2.10 Discovering Oracle HTTP Servers with the Enterprise Manager Console

Oracle9i Application Server (Oracle9iAS) includes a new version of the Oracle HTTP Server. The following sections describe issues and problems that affect discovering and using previous versions of Oracle HTTP Server with the Oracle Enterprise Manager console.

2.10.1 Privileges Required to Start Oracle HTTP Server

If the Oracle HTTP Server is configured to listen at a port number below 1024, then you must have root privileges in order to start the Oracle HTTP Listener.

To start and stop the Web server using the Enterprise Manager Console, you need to set the Preferred Credentials for the web server node. If the server is listening at a port number below 1024, the preferred credentials must allow for "root" privilege. Otherwise, you will not be able to start or stop the Web server from the Console.

2.10.2 Ignored Parameters in `httpd.conf` Configuration File

Enterprise Manager parses the HTTP Listener configuration file, `httpd(s).conf`, linearly. Because of this, directives such as 'Listen', 'IfDefine', 'VirtualHost', 'ResourceConfig', and 'Directory' are not supported (any values specified here will either be ignored or read as variables and will cause the discovery script to fail).

To configure the Web server for discovery by the Enterprise Manager Agent, use the following directives:

```
'Port' -- used to set the port number of the web server target  
'Location' -- used to set the server status URL
```

2.10.3 Include Files in HTTP Server Configuration Files

Include files are ignored by the Enterprise Manager Web server discovery script. The discovery script doesn't interpret any files in the HTTP Listener configuration file (`httpd(s).conf`), that contain the `include` verb.

3 Documentation Errata

This section describes known errors in the documentation.

3.1 Version of Oracle JInitiator in Configuration Guide

The Enterprise Manager Configuration Guide incorrectly documents that the Enterprise Manager Web Site for UNIX bundles Oracle JInitiator release 1.1.8.16o. Enterprise Manager Web Site for UNIX actually bundles (and consequently browser-based Enterprise Manager uses) Oracle JInitiator release 1.1.8.18o.