Oracle® Fusion Middleware Forms and Reports

System Requirements and Specifications

11*g* Release 2 (11.1.2)

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This document contains system and platform-specific information for Oracle Fusion Middleware Forms and Reports 11*g* Release 2 (11.1.2).

The following topics are covered in this document:

- Section 1, "Finding Oracle Fusion Middleware Certification Information"
- Section 2, "Oracle Fusion Middleware Memory and Space Requirements"
- Section 3, "Oracle Universal Installer (OUI) Requirements"
- Section 4, "Network Requirements for Installing on a DHCP Host"
- Section 5, "System Requirements for UNIX Operating Systems"
- Section 6, "System Requirements for Windows Operating Systems"
- Section 7, "Oracle WebLogic Server Information"
- Section 8, "Documentation Accessibility"

1 Finding Oracle Fusion Middleware Certification Information

If you are looking for latest certification information for current and previous releases, go to the Oracle Fusion Middleware Supported System Configurations page:

```
http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certi
fication-100350.html
```

The various certification documents contain information related to supported 32-bit and 64-bit operating systems, databases, web servers, LDAP servers, adapters, IPv6, JDKs, and third-party products.

The certification document for 11*g* Release 2 (11.1.2) is called *System Requirements and Supported Platforms for Oracle Forms and Reports 11g Release 2 (11.1.2.x) Certification Matrix*.

2 Oracle Fusion Middleware Memory and Space Requirements

This section contains the minimum memory and disk space requirements for Oracle Fusion Middleware products. The following topics are covered:

- Section 2.1, "General Memory Requirements"
- Section 2.2, "Oracle Forms and Reports Memory and Disk Space Requirements"
- Section 2.3, "Using a 64-bit JDK with Oracle Fusion Middleware"
- Section 2.4, "Oracle Identity Management Memory and Disk Space Requirements"

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2.1 General Memory Requirements

Unless otherwise noted, Table 1 lists the general minimum memory requirements for Oracle Fusion Middleware products. For the purposes of this document, "minimum available memory" is defined as the amount of physical memory (RAM) and swap memory combined.

Table 1   Memory Requirements

Operating System	Minimum Physical Memory Required	Minimum Available Memory Required
Linux	2 GB	4 GB
UNIX	2 GB	4 GB
Windows	2 GB	4 GB

2.2 Oracle Forms and Reports Memory and Disk Space Requirements

This section describes the recommended hardware and system configuration requirements for Oracle Forms and Reports.

> **Note:**   On some Windows 32-bit operating systems, the available memory is limited to 3GB. For components that are certified on such systems, Oracle recommends using the /3GB switch, as specified in Microsoft Knowledge Base Article #291988.
>
> For more information, see the certification information, as described in Section 1, "Finding Oracle Fusion Middleware Certification Information".

- Section 2.2.1, "Memory and Disk Space Requirements for Installing Oracle Forms and Reports"
- Section 2.2.2, "Memory and Disk Space Requirements for Configuring Oracle Forms and Reports"

2.2.1 Memory and Disk Space Requirements for Installing Oracle Forms and Reports

Table 2 lists the memory and disk space requirements for installing Oracle Forms and Reports.

Table 2   Memory and Disk Space Requirements for Installation

Requirement	Value
Physical Memory	Expected minimum value is 922MB.
Temp Space	Must be greater than 270MB
Swap Space	Must be greater than 500MB
Minimum Available Memory	Must be greater than 1422MB (physical memory and swap space combined)
Disk Space	3600MB

2.2.2 Memory and Disk Space Requirements for Configuring Oracle Forms and Reports

Table 2 lists the memory and disk space requirements for configuring Oracle Forms and Reports.

Table 3   Memory and Disk Space Requirements for Configuration

Requirement	Value
Physical Memory	Expected minimum value is 922MB.
Temp Space	Must be greater than 270MB
Swap Space	Must be greater than 500MB
Minimum Available Memory	Must be greater than 1422MB (physical memory and swap space combined)
Disk Space	Depends on your configuration mode:
	■ 805MB for development mode
	■ 810MB for deployment mode

2.3 Using a 64-bit JDK with Oracle Fusion Middleware

If you are using a 64-bit JVM in your environment, ensure that all your Oracle Fusion Middleware components are using the 64-bit JVM. Also make sure that Oracle WebLogic Server is installed with the 64-bit JDK. You cannot mix components using a 32-bit JVM with those using a 64-bit JVM.

Refer to the *System Requirements and Supported Platforms for Oracle Forms and Reports 11g Release 2 (11.1.2.x) Certification Matrix* for information on the platforms that support a 64-bit JDK. This document is available on the Oracle Fusion Middleware Supported System Configurations page, as described in Section 1, "Finding Oracle Fusion Middleware Certification Information".

2.4 Oracle Identity Management Memory and Disk Space Requirements

Oracle Forms and Reports can be protected by Oracle Identity Management as described in *Oracle Fusion Middleware Installation Guide for Oracle Forms and Reports*.

The memory and disk space requirements for Oracle Identity Management 11*g* Release 1 (11.1.1) can be found in *Oracle Fusion Middleware System Requirements and Specifications for 11g Release 1 (11.1.1)*. This document can be found on the following page:

```
http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-requi
rements-100147.html
```

3 Oracle Universal Installer (OUI) Requirements

This section contains prerequisite information for the Oracle Universal Installer (OUI). The requirements in this section must be met in order for the installer to start:

- Section 3.1, "Environment Variables"

- Section 3.2, "Startup Requirements"

- Section 3.3, "Spaces in Windows Directory Paths Are Not Supported"

- Section 3.4, "Special Startup Requirements for Linux x86 or Linux x86-64 Operating Systems"

3.1 Environment Variables

The environment variables on your system must be set as described in Table 4:

Table 4   Oracle Universal Installer Environment Variable Requirements

Variable	Description
ORACLE_HOME	**Applies to:** all configuration tools for all products on all platforms.
	This variable is automatically set by the configuration tool to the Oracle home from where the configuration tool is started. This is true even if the ORACLE_HOME variable is already set.
ORACLE_SID	**Applies to:** all installers for all products on all platforms.
	For the Oracle Forms and Reports installer, this variable must not be set.
	For all other installers, there are no restrictions as to whether this variable is set or not set.
PATH	**Applies to:** all installers for products with system components only on Windows operating systems.
	This variable is automatically set by the installer and prepended with *ORACLE_HOME*\bin.
	NOTE: make sure this variable does not contain a reference to any other Oracle home directory.
SHLIB_PATH	**Applies to:** all installers for products with system components only on HP-UX and HP-IA operating systems.
	This variable is automatically set by the installer and prepended with *ORACLE_HOME*/lib.
LIBPATH	**Applies to:** all installers for products with system components only on AIX operating systems.
	This variable is automatically set by the installer and prepended with *ORACLE_HOME*/lib.
LD_LIBRARY_PATH	**Applies to:** all installers for products with system components only on Linux and Solaris operating systems.
	This variable is automatically set by the installer and prepended with *ORACLE_HOME*/lib.
	NOTE: make sure this variable does not contain a reference to any other Oracle home directory.

Table 4   (Cont.) Oracle Universal Installer Environment Variable Requirements

Variable	Description
DISPLAY	**Applies to:** all installers for all products on all platforms.
	If you are installing with a graphical user interface (GUI), this variable must be set to the monitor where you want the installer GUI to appear.
	Refer to your operating system documentation for specific instructions on how to do this, as procedures vary depending on your exact operating system.
TMP TMPDIR	**Applies to:** all installers for all products on all platforms. Optional variable. If not set, then the default value is /tmp.
TNS_ADMIN ORA_NLS LD_BIND_NOW	**Applies to:** all installers for all products on all platforms. For the Oracle Forms and Reports installer, these variables must not be set. For all other installers, there are no restrictions as to whether these variables are set or not set.

3.2 Startup Requirements

The items in Table 5 are checked as the installer is being started:

Table 5   Oracle Universal Installer Startup Requirements

Category	Accepted or Minimum Values
Platforms	For a complete list of supported platforms, refer to the *System Requirements and Supported Platforms for Oracle Forms and Reports 11g Release 2 (11.1.2.x) Certification Matrix* on the Oracle Fusion Middleware Supported System Configurations page, as described in Section 1, "Finding Oracle Fusion Middleware Certification Information".
CPU Speed	At least 300MHz
Temp Space	At least 270MB
Swap Space	At least 500MB
Monitor	At least 256 colors

3.3 Spaces in Windows Directory Paths Are Not Supported

If you are running Oracle Universal Installer on a Windows operating system, make sure there are no spaces in the directory path that is specified as a parameter from the command line. For example, if you need to specify the location of a JRE from the command line, the following is not supported:

```
setup.exe -jreLoc C:\Program Files\Middleware\jdk160_version
```

Instead, you must shorten "C:\Program Files" to use the Windows short name "C:\Progra~1" as shown below:

```
setup.exe -jreLoc C:\Progra~1\Middleware\jdk160_version
```

3.4 Special Startup Requirements for Linux x86 or Linux x86-64 Operating Systems

If you are running Oracle Universal Installer on Linux x86 or Linux x86-64 operating systems, you must modify the value of the SHMMAX kernel parameter to avoid seeing errors generated by the Oracle Universal Installer. To do so:

1. Change the value of SHMMAX to 4294967295 by including the following line in `/etc/sysctl.conf`:

   ```
   kernel.shmmax = 4294967295
   ```

2. Activate the new SHMMAX setting by running the command:

   ```
   /sbin/sysctl -p
   ```

3. Start the Oracle Universal Installer and install your software.

4 Network Requirements for Installing on a DHCP Host

Dynamic Host Configuration Protocol (DHCP) assigns dynamic IP addresses on a network. Dynamic addressing allows a computer to have a different IP address each time it connects to the network. In some cases, the IP address can change while the computer is still connected. You can have a mixture of static and dynamic IP addressing in a DHCP system.

In a DHCP setup, the software tracks IP addresses, which simplifies network administration. This lets you add a new computer to the network without having to manually assign that computer a unique IP address. However, before installing Oracle Database onto a computer that uses the DHCP protocol, you must install a loopback adapter to assign a static, non-routable IP address to that computer.

If you are installing your Oracle Fusion Middleware products on a DHCP host, you must follow the configuration steps in "Configuration Requirements for Installing on a DHCP Host" section of the 11*g* Release 1 (11.1.1) *Oracle Fusion Middleware System Requirements and Specifications* document.

5 System Requirements for UNIX Operating Systems

This section contains system requirement information for UNIX operating systems.

In some cases, a particular platform may be de-supported for use with Oracle Fusion Middleware products. While this particular platform's requirements may remain in this document for legacy purposes, it would no longer be listed in the certification document and would no longer be considered a "certified" platform.

The *System Requirements and Supported Platforms for Oracle Forms and Reports 11g Release 2 (11.1.2.x) Certification Matrix* is located on the Oracle Fusion Middleware Supported System Configurations page, as described in Section 1, "Finding Oracle Fusion Middleware Certification Information".

All packages listed are minimum versions.

The following topics are covered in this section:

- Section 5.1, "Supported Linux Operating System Versions, Packages, and Patches"

- Section 5.2, "Supported Solaris Operating System Versions, Packages, and Patches"

5.1 Supported Linux Operating System Versions, Packages, and Patches

Table 6 lists the platform, operating system, package, and patch information for Linux operating systems that are either currently supported or were supported in a previous release.

Table 6   Supported Linux Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Kernel

Linux x86	Oracle Linux 4 (UL7+)
	
	Red Hat Linux 4 (UL4+)
		`gcc (version 3.4.3-22.1)`
		`gcc-c++ (version 3.4.3-22.1)`
		`openmotif (version 2.2.3)`
		`openmotif21 (version 2.1.30-11.RHEL4.4)`
		`setarch (version 1.6-1)`
		`pdksh (version 5.2.14-30`
		`sysstat (version 5.0.5-1)`
		`gnome-libs (version 1:1.4.1.2.90-44.1)`
		`libaio (version 0.3.105)`
		`libaio-devel (version 0.3.105)`
		`libstdc++ (version 3.4.3-22.1)`
		`libstdc++-devel (version 3.4.3-22.1)`
		`compat-libstdc++-296 (version 2.96-132.7.2)`
		`compat-db (version 4.1.25-9)`
		`control-center (version 2.8.0-12)`
		`glibc-common (version 2.3.4-2.9)`
		`binutils (version 2.15.92.0.2-13)`
		`make (version 1:3.80-5)`
		`xscreensaver (version 4.18-5.rhel4.2)`
			Kernel 2.6.9

Table 6   (Cont.) Supported Linux Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Kernel

Linux x86	Oracle Linux 5 (UL3+) Red Hat Linux 5 (UL3+)	`gcc (version 4.1.0-28.4)`
		`gcc-c++ (version 4.1.0-28.4)`
		`openmotif (version 2.2.3)`
		`openmotif22 (version 2.2.3)`
		`setarch (version 1.6-1)`
		`pdksh (version 5.2.14-30`
		`sysstat (version 5.0.5-1)`
		`gnome-libs (version 1:1.4.1.2.90-44.1)`
		`libaio (version 0.3.106)`
		`libaio-devel (version 0.3.106)`
		`libstdc++ (version 4.1.0-28.4)`
		`libstdc++-devel (version 4.1.0-28.4)`
		`compat-libstdc++-296 (version 2.96-132.7.2)`
		`compat-db (version 4.1.25-9)`
		`control-center (version 2.8.0-12)`
		`glibc-common (version 2.3.4-2.9)`
		`binutils (version 2.16.91.0.5-23.4)`
		`make (version 3.80-202.2)`
			Kernel 2.6.18

Linux x86	SUSE 10 (SP1+)	`gcc (version 4.1.0-28.4)`
		`glibc-devel (version 2.4-31.2)`
		`gcc-c++ (version 4.1.0-28.4)`
		`openmotif (version 2.2.3)`
		`openmotif21-libs (version 2.1.30)`
		`libaio (version 0.3.104)`
		`libaio-devel (version 0.3.104)`
		`libgcc (version 4.1.0-28.4)`
		`libstdc++ (version 4.1.0-28.4)`
		`libstdc++-devel (version 4.1.0-28.4)`
		`compat-libstdc++ (version 5.0.7-22.2)`
		`compat (version 2006.1.25-11.2)`
		`binutils (version 2.16.91.0.5-23)`
		`make (version 3.80-202.2)`
			Kernel 2.6.16.21

Linux x86	SUSE 11 (all SP levels included)	`binutils (version 2.19.-11.28)`
		`gcc (version 4.3-62.198)`
		`gcc-c++ (version 4.3-62.198)`
		`glibc-devel (version 2.9-13.2)`
		`libgcc43 (version 4.3.3_20081022-11.18)`
		`libstdc++43 (version 4.3.3_20081022-11.18)`
		`libstdc++43-devel (version 4.3.3_ 20081022-11.18)`
		`libaio (version 0.3.104-140.22)`
		`libaio-devel (version 0.3.104-140.22)`
		`make (version 3.81-128.20)`
		`sysstat (version 8.1.5-7.8)`
		`openmotif (version 2.3.1-13.3)`
		`openmotif21-libs (version 2.1.30MLI4-143.9)`
		`openmotif22-libs (version 2.2.4-138.17)`
		`openmotif-libs (version 2.3.1-3.13)`
		`openmotif-devel (version 2.3.1-3.13)`
			Kernel 2.6.27.19-5-default

Table 6   (Cont.) Supported Linux Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Kernel

Linux x86-64	Oracle Linux 4 (UL7+)
	
	Red Hat Linux 4 (UL4+)
		`binutils (version 2.15.92.0.2)`
		`compat-libstdc++-33 (version 3.2.3)`
		`elfutils-libelf (version 0.97)`
		`elfutils-libelf-devel (version 0.97)`
		`gcc (version 3.4.5)`
		`gcc-c++ (version 3.4.5)`
		`glibc (version 2.3.4-2.19)`
		`glibc-common (version 2.3.4)`
		`glibc-devel (version 2.3.4)`
		`libaio (version 0.3.105)`
		`libaio-devel (version 0.3.105)`
		`libgcc (version 3.4.5)`
		`libstdc++ (version 3.4.5)`
		`libstdc++-devel (version 3.4.5)`
		`make (version 3.80)`
		`sysstat (version 5.0.5)`
		`openmotif (version 2.2.3)`
		`openmotif21 (version 2.1.30-11.RHEL4.4)`
			Kernel 2.6.9

Linux x86-64	Oracle Linux 5 (UL3+)
	
	Red Hat Linux 5 (UL3+)
		`binutils (version 2.17.50.0.6)`
		`compat-libstdc++-33 (version 3.2.3)`
		`elfutils-libelf (version 0.125)`
		`elfutils-libelf-devel (version 0.125)`
		`gcc (version 4.1.1)`
		`gcc-c++ (version 4.1.1)`
		`glibc (version 2.5-12)`
		`glibc-common (version 2.5)`
		`glibc-devel (version 2.5 for x86-64)`
		`glibc-devel (version 2.5-12 for i386))`
		`libaio (version 0.3.106)`
		`libaio-devel (version 0.3.106)`
		`libgcc (version 4.1.1)`
		`libstdc++ (version 4.1.1)`
		`libstdc++-devel (version 4.1.1)`
		`make (version 3.81)`
		`sysstat (version 7.0.0)`
		`openmotif (version 2.2.3)`
		`openmotif22 (version 2.2.3)`
			Kernel 2.6.18

Table 6   (Cont.) Supported Linux Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Kernel

Linux x86-64	SUSE 10(SP1+)	`binutils (version 2.16.91.0.5)`
		`compat-libstdc++ (version 5.0.7-22.2)`
		`gcc (version 4.1.0)`
		`gcc-c++ (version 4.1.0)`
		`glibc (version 2.4-31.2)`
		`glibc-devel (version 2.4)`
		`glibc-devel-32bit (version 2.4)`
		`libaio (version 0.3.104)`
		`libaio-devel (version 0.3.104)`
		`libelf (version 0.8.5)`
		`libgcc (version 4.1.0)`
		`libstdc++ (version 4.1.0)`
		`libstdc++-devel (version 4.1.0)`
		`make (version 3.80)`
		`sysstat (version 6.0.2)`
		`openmotif (version 2.2.3)`
		`openmotif21-libs (version 2.1.30)`
			Kernel 2.6.16.21

Linux x86-64	SUSE 11 (all SP levels included)	`binutils (version 2.19-11.28)`
		`gcc (version 4.3-62.198)`
		`gcc-c++ (version 4.3-62.198)`
		`glibc (version 2.9-13.2)`
		`glibc-32bit (version 2.9-13.2)`
		`glibc-devel (version 2.9-13.2)`
		`glibc-devel-32bit (version 2.9-13.2)`
		`libaio (version 0.3.104-140.22)`
		`libaio-devel (version 0.3.104-140.22)`
		`libgcc43 (version 4.3.3_20081022)`
		`libstdc++43 (version 4.3.3_20081022-11.18)`
		`libstdc++43-devel (version 4.3.3_`
		`20081022-11.18)`
		`make (version 3.81)`
		`sysstat (version 8.1.5-7.8)`
		`openmotif (version 2.2.3)`
		`openmotif22 (version 2.2.3)`
			Kernel 2.6.27.19-5-default

5.2 Supported Solaris Operating System Versions, Packages, and Patches

Table 7 lists the platform, operating system, package, and patch information for Solaris operating systems that are either currently supported or were supported in a previous release.

Table 7   Supported Solaris Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Patches

SPARC64	Solaris 10 (Update 4+)	`SUNWarc`
		`SUNWbtool`
		`SUNWhea`
		`SUNWlibC`
		`SUNWlibm`
		`SUNWlibms`
		`SUNWsprot`
		`SUNWtoo`
		`SUNWi1of`
		`SUNWi1cs`
		`SUNWi15cs`
		`SUNWxwfnt`
		`SUNWmfrun`
		`Motif: 2.1.0`
			`127111-02`
			`137111-04`

	Solaris 11	`SUNWlibC`	

x86-64	Solaris 10 (Update 6+)	`SUNWarc`
		`SUNWbtool`
		`SUNWhea`
		`SUNWlibC`
		`SUNWlibm`
		`SUNWlibms`
		`SUNWsprot`
		`SUNWtoo`
		`SUNWi1of`
		`SUNWi1cs`
		`SUNWi15cs`
		`SUNWxwfnt`
		`Motif: 2.1.0`
			`127111-02`
			`137111-04`

5.3 Supported HP-UX Operating System Versions, Packages, and Patches

Table 8 lists the platform, operating system, package, and patch information for Solaris operating systems that are either currently supported or were supported in a previous release.

Table 8   Supported HP-UX Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Patches

Itanium	11i (11.31)
	
	B.11.31.0803.318a Base Quality Pack Bundle for HP-UX 11i v3, March 2008+
		`B3394BA (version 2.1.0)`	`PHKL_36248`
			`PHKL_36249`
			`PHSS_37202`
			`PHSS_37501`
			`PHCO_38050`
			`PHSS_38139`

5.4 Supported IBM AIX Operating System Versions, Packages, and Patches

Table 9 lists the platform, operating system, package, and patch information for Solaris operating systems that are either currently supported or were supported in a previous release.

Table 9   Supported IBM AIX Operating Systems

Platform	Operating System Version	Required Packages	Required Operating System Patches
AIX	6.1 (TL2+)	`X11.motif.lib (version 2.1.30)`	

	7.1 (TL0+)	`bos.adt.base`
		`bos.adt.lib`
		`bos.adt.libm`
		`bos.perf.libperfstat`
		`bos.perf.perfstat`
		`bos.perf.protocols`
		`rsct.basic.rte`
		`rsct.compat.clients.rte`
		`xlC.aix61.rte (version 10.1.0.0)`
		`xlC.rte (version 10.1.0.0)`	

5.5 Checking the Open File Limit

In addition to the requirements detailed in Table 6, the Open File Limit should also be checked. The minimum Open File Limit should be 4096.

The following examples are for Linux operating systems. Equivalent commands should be followed for other UNIX operating systems.

You can see how many files are open with the following command:

```
/usr/sbin/lsof | wc -l
```

To check your open file limits, use the commands below.

For C-shell:

```
limit descriptors
```

For Bash:

```
ulimit -n
```

To change the open file limits, login as root and edit the /etc/security/limits.conf file. Look for the following two lines:

```
* soft  nofile  2048
* hard  nofile  2048
```

Change the values from 2048 to 4096, then reboot the machine.

5.6 Installing Oracle Identity Management on Solaris x86-64 Platforms

If you are installing Oracle Identity Management on a Solaris x86-64 platform, you must patch all software versions to the most recent version before you configure a domain. Below is a recommended installation procedure; refer to the product

documentation (*Oracle Fusion Middleware Installation Guide for Oracle Identity Management*) for more details.

1. Install the most recent version of Oracle WebLogic Server.

2. If necessary, run Repository Creation Utility (RCU) to create the database schemas.

3. Perform a software-only installation (do not configure a domain) of the Release 11.1.1.2.0 software.

4. Patch the software to the latest version with the Patch Set Installer.

5. Run the configuration tool to configure a domain.

5.7 Installing Oracle HTTP Server on Linux Operating Systems Requires NPTL

If you are installing Oracle HTTP Server on a Linux operating system, the operating system needs to set Native POSIX Threads Library (NPTL) as the default threads-implementation. To check for this, run the following command:

```
getconf GNU_LIBPTHREAD_VERSION
```

The expected results should be "NPTL 2.3.4". Failing to have NPTL can result in unexpected behavior for the Oracle HTTP Server, especially if the Multi-Processing Module (MPM) is the Worker MPM.

5.8 Installing as a Non-Default User on UNIX Operating Systems

On UNIX operating systems, the installation of Fusion Middleware products is owned and controlled as a known user (for example, "oracle"). The file permissions associated with this installation are configured to ensure the highest level of security possible, which by default are 700 (meaning all files are owned and accessible by the owner only).

Changing the default permissions settings will reduce the security of the installation and possibly your system. Therefore, making such a change is not recommended. If access to particular files or executables is required by other users, the UNIX sudo command (or other similar command) should be considered in lieu of changing file permissions.

Refer to your UNIX operating system Administrator's Guide or contact your operating system vendor if you need further assistance.

5.9 Applying Solaris Patches in Non-Global Zones

On Solaris operating systems, the prerequisite patches that are applied in the global zone can be considered applied in the non-global zones. There is only one kernel running on the system, and all zones must be at the same patch level with respect to the kernel and other Solaris system components. Kernel patches can only be applied from the global zone, and they affect the global and all non-global zones equally.

To check if a kernel patch is applied in the global zone, use the following command:

```
showrev -p | grep patch_number
```

For example, to check if patch 137111-04 is applied:

```
showrev -p | grep 137111
```

6 System Requirements for Windows Operating Systems

This section contains the following:

- Section 6.1, "Certified Windows Operating Systems"

- Section 6.2, "Disabling Anti-Virus Software"

- Section 6.3, "Installing 32-Bit Oracle Forms and Reports on 64-Bit Windows Operating Systems"

- Section 6.4, "Enabling User Account Control (UAC)"

- Section 6.5, "Understanding Required Installation Privileges"

6.1 Certified Windows Operating Systems

Refer to the *System Requirements and Supported Platforms for Oracle Forms and Reports 11g Release 2 (11.1.2.x) Certification Matrix* for the latest information on certified Windows operating systems. See Section 1, "Finding Oracle Fusion Middleware Certification Information" for a link to this document.

6.2 Disabling Anti-Virus Software

If you encounter issues related to anti-virus software during your Fusion Middleware product installation, disable your anti-virus software for the entire duration of the installation. If the system is restarted before the installation is complete, ensure the anti-virus software was not restarted before continuing with the installation.

Anti-virus software can be re-enabled when the installation is complete.

6.3 Installing 32-Bit Oracle Forms and Reports on 64-Bit Windows Operating Systems

If you are installing the 32-bit version of Oracle Forms and Reports onto a 64-bit Windows operating system, the Oracle WebLogic Server on your system must also use a supported 32-bit JDK (either the one included with the installer or another supported 32-bit JDK). If Oracle WebLogic Server uses a 64-bit JDK, some patches may not be installed properly by the Oracle Forms and Reports installer.

6.4 Enabling User Account Control (UAC)

On Microsoft Windows operating systems, you must enable User Account Control (UAC) so that the correct permissions are applied to the `cwallet.sso` file.

To enable UAC:

1. Run `secpol.msc` from the command prompt.

2. Select **Security Settings > Local Policies > Security Options**.

3. Set the **User Account Control:Run all Administrator in Admin Approval Mode** option to enabled.

4. Restart the host.

5. Restart the servers.

6.5 Understanding Required Installation Privileges

In order to install Oracle Forms and Reports or use the Oracle Forms and Reports Builders after installation, the operating system user must have Windows "Administrator" privileges.

Although the current user may have Windows "Administrator" privileges, if they are not the installation owner, the Windows UAC settings may need to be relaxed.

7 Oracle WebLogic Server Information

Oracle Forms and Reports 11*g* Release 2 (11.1.2) is released and tested with Oracle WebLogic Server 11*g*R1 (10.3.5). Oracle WebLogic Server can be obtained from the following URL:

`http://www.oracle.com/technetwork/middleware/weblogic/downloads/`

Refer to the *System Requirements and Supported Platforms for Oracle Forms and Reports 11g Release 2 (11.1.2.x) Certification Matrix* to see if there are additional versions of Oracle WebLogic Server that can be used with your version of Oracle Forms and Reports. This document is available in the Oracle Fusion Middleware Supported System Configurations page, as described in Section 1, "Finding Oracle Fusion Middleware Certification Information".

8 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc`.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info` or visit `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs` if you are hearing impaired.