

Oracle® Collaboration Suite

Quick Installation Guide

10g Release 1 (10.1.2) for Solaris Operating System (SPARC)

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ORACLE®

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Introduction

This guide describes how to install Oracle Collaboration Suite. It contains the following topics:

- [Documentation Accessibility](#)
- [Installation Types Covered in This Guide](#)
- [Starting the Installer](#)
- [Performing Basic Installation](#)
- [Performing Infrastructure and Applications Installation](#)
- [Performing Multiple-Computer Installation](#)
- [Postinstallation Tasks](#)
- [Checking Requirements](#)
- [Accessing the Welcome Page](#)
- [Additional Resources](#)

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Installation Types Covered in This Guide

This guide is intended for users who want to install Oracle Collaboration Suite in these configurations:

- **Oracle Collaboration Suite Infrastructure and Applications Installation on a Single Computer**

This topology installs Oracle Collaboration Suite on one computer. Both Oracle Collaboration Suite Infrastructure and Oracle Collaboration Suite Applications are installed on the same computer.

- **Multiple-Computer Installation**

This topology installs Oracle Collaboration Suite Infrastructure on one computer and Oracle Collaboration Suite Applications on a separate computer.

If you want more complex topologies, then read *Oracle Collaboration Suite Installation Guide for Solaris Operating System* for complete installation instructions.

Before installing Oracle Collaboration Suite, you should read the *Oracle Collaboration Suite Release Notes for Solaris Operating System* for the latest information.

Starting the Installer

To start the installer:

1. Ensure that you have checked all the minimum requirements listed in "[Checking Requirements](#)" on page 41.
2. Log in to the computer as a user who is a member of the Administrators group.
3. Insert the disk:

Insert the Oracle Collaboration Suite DVD.

4. If your computer does not mount disks automatically, see "[Mounting the DVD-ROM](#)" on page 8 for steps on mounting the DVD-ROM manually.

If you are using Volume Manager, the DVD-ROM should mount automatically, usually on `/dvd`.

5. Start the installer:

Note: Do not run the installer from the mount point directory. Note the `cd` command in the following line. It changes your current directory to your home directory so that you do not start the installer from the mount point.

DVD-ROM:

```
# cd  
# /dvd/ocs/runInstaller
```

This starts Oracle Universal Installer, through which you can install Oracle Collaboration Suite.

Mounting the DVD-ROM

Follow these steps if your computer does not automatically mount the DVD-ROM:

1. Insert the DVD.
2. Log in as the root user.

```
# su  
Password:
```

3. Create the DVD-ROM mount point directory:

```
# mkdir /dvd
```

4. Mount the DVD-ROM drive on the mount point directory:

```
# mount options device_name /dvd
```

For example:

```
# mount -r -F hsfs device_name /dvd
```

You can also use the same commands and options to mount the DVD-ROM.

Performing Basic Installation

To install Oracle Collaboration Suite on one computer using the Basic installation method:

1. Start the installer. See "[Starting the Installer](#)" on page 6 for details.
2. Select Installation Method screen

Basic Installation: Select this installation method to quickly install Oracle Collaboration Suite. This installation method requires minimal user input. It installs the software using the following information that you specify on this screen:

- **Installation Directory:** Specify the full path to the directory where you want to install the software (the Oracle home directory).
- **Password:** Specify a common password for the administrative accounts (schema).
- **Confirm Password:** Reenter the password you specified previously to confirm that it is correct.
- Click **Select Components** to display the Select Components to Configure screen. This screen allows you to

deselect the components that you do not want to configure during the install.

- Click **Set Languages** to display the Language Selection screen. This screen allows you to select the language in which Oracle Collaboration Suite will be installed.

Note: The default language selected in the Selected Languages list is English. However if the language of the operating system of the computer on which you are installing Oracle Collaboration Suite is not English, then that language will also be automatically added to Selected Languages list. As a result, two languages, English and the locale language of your operating system, will be installed as a part of the basic Oracle Collaboration Suite installation.

Advanced Installation: Select this installation method if you want to:

- Perform a custom software installation, or choose a different database configuration.
- Select an installation type.
- Enable an existing database.
- Select different product languages.

- Specify different passwords for administrative schemas.

Select **Basic Installation** and click **Next**.

3. If this is the first Oracle product to be installed on this computer, the installer displays these additional screens:

- a. Specify Inventory Directory and Credentials screen

Enter the full path of the inventory directory: Enter a full path to the inventory directory. Enter a directory that is different from the Oracle home directory for the product files.

Example: `/home/oracle/oraInventory`

Specify Operating System group name: Select the operating system group that will have write permission for the inventory directory.

Example: `oinstall`

Click **Next**.

- b. Run oraInstRoot.sh dialog box

Run the `oraInstRoot.sh` script in a different shell as the root user. The script is located in the inventory directory.

After running the script, click **Continue**.

4. Summary screen

Verify your selections and click **Install**.

The installer now installs the files.

5. Run root.sh dialog box

Note: Do not run the `root . sh` script until this dialog box appears.

When you see this dialog box, run the `root . sh` script in a different shell as the `root` user. The script is located in the Oracle home directory of this instance.

Note: During the `root . sh` prompt, you might get some warning messages. Ignore the messages and continue with the installation.

Click **OK**.

6. Configuration Assistants screen

This screen displays the progress of configuration assistants. Configuration assistants configure Oracle Collaboration Suite components.

7. End of Installation screen

Click **Exit** to quit the installer.

Note: The information displayed at the end of the installation is also available in the `$ORACLE_HOME/install/setupinfo.txt` file. This file contains summarized information about Oracle Collaboration Suite and links to the URLs.

Performing Infrastructure and Applications Installation

This topology installs Oracle Collaboration Suite on one computer, which provides the following components:

- Oracle Collaboration Suite Database
- Identity Management
- Oracle Collaboration Suite Applications

To install Oracle Collaboration Suite on a single computer:

1. Start the installer. See "[Starting the Installer](#)" on page 6 for details.
2. Select Installation Method screen

Select Advanced Installation and click **Next**.

3. If this is the first Oracle product to be installed on this computer, the installer displays these additional screens:

- a. Specify Inventory Directory and Credentials screen
(Advanced installation only)

Enter the full path of the inventory directory: Enter a full path to the inventory directory. Enter a directory that is different from Oracle home directory for the product files.

Example: `/home/oracle/oraInventory`

Specify Operating System group name: Select the operating system group that will have write permission for the inventory directory.

Example: `oinstall`

Click **Next**.

- b. Run oraInstRoot.sh dialog box

Run the `oraInstRoot.sh` script in a different shell as the root user. The script is located in the inventory directory.

After running the script, click **Continue**.

4. Specify File Locations screen (Advanced installation only)

Name: Enter a name to identify this Oracle home.

Example: *infra_home_10_1_2*

Destination Path: Enter the full path to the destination directory. This is the Oracle home. If the destination directory does not exist, the installer creates it.

Example: *home/oracle/orainfra*

Click **Next**.

5. Specify Hardware Cluster Installation Mode screen
(Advanced installation only)

This screen appears only if the computer is part of a hardware cluster.

When you are installing Oracle Collaboration Suite Infrastructure and Applications, select **Local Installation** because hardware clusters are not supported for Oracle Collaboration Suite Infrastructure and Applications.

Click **Next**.

6. Select a Product to Install screen (Advanced installation only)

Select **Oracle Collaboration Suite Infrastructure and Applications 10.1.2.0.0** and click **Next**.

7. Product-specific Prerequisite Checks screen (Advanced installation only)

This screen verifies that the system meets all the system requirements for installing and configuring Oracle Collaboration Suite.

Note: If the kernel parameter check fails and you click **Retry** after making the required changes, the installer does not rerun the check. After changing the kernel parameters, select **User Verified** and proceed. To validate the changes, you may want to restart the installer.

8. Language Selection screen (Advanced installation only)

This screen enables you to select the language in which Oracle Collaboration Suite components will run.

Select the required language or languages from the Available Languages list and add them to the Selected Languages list.

Click **Next**.

9. Collaboration Suite Infrastructure and Applications Methodology screen (Advanced installation only)

Read the instructions on the screen and click **Next**.

10. Select Components to Configure screen (Advanced installation only)

Select Oracle Collaboration Suite Applications components, which you want to install.

Click **Next**.

Note: If at any time during the installation (before you click the **Install** button) you need to make changes to the list of applications that you want configured, then you will have to exit out of the installation and restart it.

11. Specify Namespace in Internet Directory screen (Advanced installation only)

Select the suggested namespace and click **Next**.

12. Specify Database Configuration Options screen (Advanced installation only)

Global Database Name: Enter a name for Oracle Collaboration Suite Database database, and append your domain name to the database name.

Example: `orcl.yourcompany.com`

SID: Enter the system identifier for the Oracle Collaboration Suite Database. Typically this is the global database name, but

without the domain name. The SID must be unique across all databases.

Example: `orcl`

Specify Database File Location: Specify the complete path to the parent directory for the data files directory. The directory you specify must exist, and you must have write permissions to it.

The installer installs the data files in a subdirectory of the path you specify. The installer uses the database name for the name of the subdirectory. For example, if you specify `orcl.yourcompany.com` for the global database name and `/data/dbfiles` for the database file location, the installer places database files in the following directory:
`/data/dbfiles/orcl`

Click **Next**.

13. Specify Database Schema Passwords screen (Advanced installation only)

Set the passwords for the administrative database users, which are privileged accounts used for database administration.

You can use the same password for all users, or specify different passwords for each user.

Click **Next**.

14. Specify Application Passwords screen (Advanced installation only)

Specify passwords for administrative accounts that are created for the applications that you selected during installation.

You can use the same password for all users, or specify different passwords for each user.

Click **Next**.

15. Specify Oracle Mail Domain Information screen (Advanced installation only)

Mail Domain: Specify the local (network) domain for IMAP/SMTP, or other mail protocols.

Click **Next**.

16. Specify Port Configuration Options screen (Advanced installation only)

Select **Automatic Port Selection** and click **Next**.

Note: The Automatic option only uses ports in the range 7777-7877 for Oracle HTTP Server and 4443-4543 for Oracle HTTP Server with SSL. If you need to set the port numbers as 80 for Oracle HTTP Server and 443 for Oracle HTTP Server with SSL, then you must select the **Manually Specify Ports** option.

17. Summary screen

Verify your selections and click **Install**.

The installer now installs the files.

18. Run root.sh dialog box

Note: Do not run the `root.sh` script until this dialog box appears.

When you see this dialog box, run the `root.sh` script in a different shell as the `root` user. The script is located in the Oracle home directory of this instance.

Note: During the `root.sh` prompt, you might get some warning messages. Ignore the messages and continue with the installation.

Click **OK**.

Note: This dialog box appears twice for the single-computer installation, once during infrastructure installation and next during the application tier installation.

19. Configuration Assistants screen

This screen displays the progress of configuration assistants. Configuration assistants configure Oracle Collaboration Suite components.

20. End of Installation screen

Click **Exit** to quit the installer.

Note: The information displayed at the end of the installation is also available in the `$ORACLE_HOME/install/setupinfo.txt` file. This file contains summarized information about Oracle Collaboration Suite and links to the URLs.

Performing Multiple-Computer Installation

This topology installs Oracle Collaboration Suite Infrastructure on one computer and Oracle Collaboration Suite Applications on a separate computer.

Setting up the multiple-computer topology involves:

1. [Installing Oracle Collaboration Suite Infrastructure](#)
2. [Installing Oracle Collaboration Suite Applications](#)

Oracle Collaboration Suite Applications use services from the Oracle Collaboration Suite Infrastructure, so you have to install the infrastructure first.

Installing Oracle Collaboration Suite Infrastructure

To install Oracle Collaboration Suite Infrastructure with a new database and a new Oracle Internet Directory:

1. Start the installer. See ["Starting the Installer"](#) on page 6 for details.
2. Select Installation Method screen

Select Advanced Installation and click **Next**.

3. If this is the first Oracle product to be installed on this computer, the installer displays these additional screens:

- a. Specify Inventory Directory and Credentials screen
(Advanced installation only)

Enter the full path of the inventory directory: Enter a full path to the inventory directory. Enter a directory that is different from the Oracle home directory for the product files.

Example: `/home/oracle/oraInventory`

Specify Operating System group name: Select the operating system group that will have write permission for the inventory directory.

Example: `oinstall`

Click **Next**.

- b. Run oraInstRoot.sh dialog box (Advanced installation only)

Run the `oraInstRoot.sh` script in a different shell as the root user. The script is located in the inventory directory.

After running the script, click **Continue**.

4. Specify File Locations screen (Advanced installation only)

Name: Enter a name to identify this Oracle home.

Example: infra_home_10_1_2

Destination Path: Enter the full path to the destination directory. This is the Oracle home. If the destination directory does not exist, Oracle Universal Installer creates it.

Example: home/oracle/orainfra

Click **Next**.

5. Specify Hardware Cluster Installation Mode screen
(Advanced installation only)

This screen appears only if the computer is part of a hardware cluster.

When you are installing Oracle Collaboration Suite Infrastructure, select **Local Installation** because hardware clusters are not supported for Oracle Collaboration Suite Infrastructure.

Click **Next**.

6. Select a Product to Install screen (Advanced installation only)

Select **Oracle Collaboration Suite Infrastructure 10.1.2.0.0** and click **Next**.

7. Select Installation Type screen (Advanced installation only)

Select **Identity Management and Oracle Collaboration Suite Database** and click **Next**.

8. Product-specific Prerequisite Checks screen (Advanced installation only)

This screen verifies that the system meets all the system requirements for installing and configuring Oracle Collaboration Suite.

Note: If the kernel parameter check fails and you click **Retry** after making the required changes, the installer does not rerun the check. After changing the kernel parameters, select **User Verified** and proceed. To validate the changes, you may want to restart the installer.

Click **Next**.

9. Language Selection screen (Advanced installation only)

This screen enables you to select the language in which Oracle Collaboration Suite components will run.

Select the required language or languages from the Available Languages list and add them to the Selected Languages list.

Click **Next**.

10. Select Configuration Options screen (Advanced installation only)

Select **Oracle Internet Directory**.

Select **OracleAS Single Sign-On**.

Select **Delegated Administration Service**.

Select **Oracle Directory Integration and Provisioning**.

Do not select **OracleAS Certificate Authority**.

Do not select **High Availability and Replication**.

Click **Next**.

11. Specify Namespace in Internet Directory screen (Advanced installation only)

Select **Suggested Namespace** and click **Next**.

12. Specify Port Configuration Options screen (Advanced installation only)

To use default ports for the components, select **Automatic Port Selection**.

If you do not want to use the default ports, then select **Manually specify ports** and select the component for which you want to select the port.

Note: The Automatic option only uses ports in the range 7777-7877 for Oracle HTTP Server and 4443-4543 for Oracle HTTP Server with SSL. If you need to set the port numbers as 80 for Oracle HTTP Server and 443 for Oracle HTTP Server with SSL, then you must select the **Manually Specify Ports** option.

Click **Next**.

13. Guest Account Password screen (Advanced installation only)

Enter and confirm the password for the guest account and click **Next**.

14. Specify Database Configuration Options screen

Global Database Name: Enter a name for Oracle Collaboration Suite Database, and append your domain name to the database name.

Example: `orcl.yourcompany.com`

SID: Enter the system identifier for the Oracle Collaboration Suite Database. Typically this is the global database name, but without the domain name. The SID must be unique across all databases.

Example: `orcl`

Specify Database File Location: Specify the full path to the parent directory for the data files directory. The directory you specify must exist, and you must have write permissions to it.

The installer installs the data files in a subdirectory of the path you specify. The installer uses the database name for the name of the subdirectory. For example, if you specify `orcl.yourcompany.com` for the global database name and `/data/dbfiles` for the database file location, the installer places database files in the following directory:
`/data/dbfiles/orcl`

Click **Next**.

15. Specify Database Schema Passwords screen (Advanced installation only)

Set the passwords for the administrative database users, which are privileged accounts used for database administration.

You can use the same password for all users, or specify different passwords for each user.

Click **Next**.

16. Specify Instance Name and ias_admin Password screen
(Advanced installation only)

Instance Name: Enter a name for this instance. Instance names can contain the dollar (\$) and underscore (_) characters in addition to any alphanumeric characters. If you have more than one Oracle Collaboration Suite instance on a computer, the instance names must be unique.

Example: *infra*

ias_admin Password and Confirm Password: Enter and confirm the password for the `ias_admin` user. This is the administrative user for this instance.

Passwords must consist of at least five characters, and one of the characters must be a number.

For example: `welcome99`

Click **Next**.

17. Summary screen

Verify your selections and click **Install**.

The installer now installs the files.

18. Run root.sh dialog box

Note: Do not run the `root . sh` script until this dialog box appears.

When you see this dialog box, run the `root . sh` script in a different shell as the `root` user. The script is located in the Oracle home directory of this instance.

Note: During the `root . sh` prompt, you might get some warning messages. Ignore the messages and continue with the installation.

Click **OK**.

19. Configuration Assistants screen

This screen displays the progress of configuration assistants. Configuration assistants configure Oracle Collaboration Suite components.

20. End of Installation screen

Click **Exit** to quit the installer.

Note: The information displayed at the end of the installation is also available in the `$ORACLE_HOME/install/setupinfo.txt` file. This file contains summarized information about Oracle Collaboration Suite and links to the URLs.

Installing Oracle Collaboration Suite Applications

Before you start installing Oracle Collaboration Suite Applications, you must perform the preinstallation task discussed in the following subsection.

Preinstallation Task

Before you install the Applications tier, check if sendmail is running by using the following command:

```
prompt> ps -elf | grep sendmail
```

If sendmail is running, shut it down as the `root` user as follows:

```
prompt> /etc/init.d/sendmail stop
```

Disable sendmail as the root user by using the following command:

```
prompt> chmod -x /etc/init.d/sendmail
```

Oracle Collaboration Suite Applications Installation Procedure

The following procedure installs a Oracle Collaboration Suite Applications and configures it to use the Oracle Collaboration Suite Infrastructure installed according to the steps explained in ["Installing Oracle Collaboration Suite Infrastructure"](#) on page 22.

1. Start the installer. See ["Starting the Installer"](#) on page 6 for details.
2. Select Installation Method screen
Select Advanced Installation and click **Next**.
3. If this is the first Oracle product to be installed on this computer, the installer displays these additional screens:
 - a. Specify Inventory Directory and Credentials screen
(Advanced installation only)

Enter the full path of the inventory directory: Enter a full path to the inventory directory. Enter a directory that is different from Oracle home directory for the product files.

Example: `/home/oracle/oraInventory`

Specify operating system group name: Select the operating system group that will have write permission for the inventory directory.

Example: `oinstall`

Click **Next**.

- b. Run oraInstRoot.sh dialog box** (Advanced installation only)

Run the `oraInstRoot.sh` script in a different shell as the root user. The script is located in the `inventory` directory.

After running the script, click **Continue**.

- 4. Specify File Locations screen** (Advanced installation only)

Name: Enter a name to identify this Oracle home.

Example: `apptier_home_10_1_2`

Destination Path: Enter the full path to the destination directory. This is the Oracle home. If the destination directory does not exist, the installer creates it.

Example: `home/oracle/oraapptier`

Click **Next**.

5. Specify Hardware Cluster Installation Mode screen
(Advanced installation only)

This screen appears only if the computer is part of a hardware cluster.

When you are installing Oracle Collaboration Suite Applications, select **Local Installation** because hardware clusters are not supported for Oracle Collaboration Suite Applications.

Click **Next**.

6. Select a Product to Install screen (Advanced installation only)

Select **Oracle Collaboration Suite Applications 10.1.2.0.0**.

If you need to install additional languages, click **Product Languages**.

Click **Next**.

7. Product-specific Prerequisite Checks screen (Advanced installation only)

This screen verifies that the system meets all the system requirements for installing and configuring Oracle Collaboration Suite.

Note: If the kernel parameter check fails and you click **Retry** after making the required changes, the installer does not rerun the check. After changing the kernel parameters, select **User Verified** and proceed. To validate the changes, you may want to restart the installer.

Click **Next**.

8. Language Selection screen (Advanced installation only)

This screen enables you to select the language in which Oracle Collaboration Suite components will run.

Select the required language or languages from the Available Languages list and add them to the Selected Languages list.

Click **Next**.

9. Select Components to Configure screen (Advanced installation only)

Select Oracle Collaboration Suite Applications components, which you would like to configure during the installation.

Click **Next**.

Note: If at any time during the installation (before you click the **Install** button) you need to make changes to the list of

applications that you want configured, then you will have to exit out of the installation and restart it.

10. Register with Oracle Internet Directory (Advanced installation only)

Host: Enter the name of the computer where Oracle Internet Directory is running.

Port: Enter the port number at which Oracle Internet Directory is listening. If you do not know the port number, see the `portlist.ini` file for the port of Oracle Internet Directory. This file is located in the `ORACLE_HOME/install` directory.

Use SSL to connect to Oracle Internet Directory: Select this option if you want Oracle Collaboration Suite components to use only SSL to connect to Oracle Internet Directory.

Click **Next**.

11. Specify UserName and Password for Oracle Internet Directory screen (Advanced installation only)

Username: Enter the user name to use to log in to Oracle Internet Directory. Use `cn=orcladmin` as the user name if you are the Oracle Internet Directory Superuser.

Password: Enter the user password.

Click **Next**.

12. OracleAS Metadata Repository screen (Advanced installation only)

Database Connection String: Select the OracleAS Metadata Repository that you want to use for this application tier instance. The installer will register this instance with the selected OracleAS Metadata Repository.

Click **Next**.

13. Select Database for Components screen (Advanced installation only)

This screen shows the database to be used for each of the components that you earlier selected in the Select Components to Configure screen.

Click **Next**.

14. Specify Port Configuration Options screen (Advanced installation only)

To use default ports for the components, select **Automatic Port Selection**.

If you do not want to use the default ports, then select **Manually specify ports** and select the component for which you want to specify the port.

Note: The Automatic option only uses ports in the range 7777-7877 for Web Cache HTTP Listen port and 4443-4543 for Web Cache HTTP Listen with SSL. If you need to set the port numbers as 80 for Web Cache HTTP Listen port and 443 for Web Cache HTTP Listen with SSL, then you must select the **Manually Specify Ports** option.

Click **Next**.

15. Specify Administrative Password and Instance Name screen
(Advanced installation only)

Instance Name: Specify the name of the OracleAS instance for the Oracle Collaboration Suite administrative accounts.

Administrative Password: Specify the initial password for the Oracle Collaboration Suite administrative accounts.

Confirm Password: Confirm the password.

Click **Next**.

16. Oracle Calendar Server Host Alias screen (Advanced installation only)

Host or Alias: Specify either the host address or the alias of the Calendar server instance.

Note: Oracle recommends that you use alias in place of host name if later you want to move the Calendar server instance or change the host name. Specify the host name if an alias is not configured.

Click **Next**.

17. Specify Oracle Mail Domain Information screen (Advanced installation only)

Mail Domain: Specify the local (network) domain for IMAP/SMTP, or other mail protocols.

Click **Next**.

18. Summary screen

Verify your selections and click **Install**.

The installer now installs the files.

19. Run root.sh dialog box

Note: Do not run the `root.sh` script until this dialog box appears.

When you see this dialog box, run the `root . sh` script in a different shell as the `root` user. The script is located in the Oracle home directory of this instance.

Click **OK**.

20. Configuration Assistants screen

This screen displays the progress of configuration assistants. Configuration assistants configure Oracle Collaboration Suite components.

21. End of Installation screen

Click **Exit** to quit the installer.

Note: The information displayed at the end of the installation is also available in the `$ORACLE_HOME/install/setupinfo.txt` file. This file contains summarized information about Oracle Collaboration Suite and links to the URLs.

Postinstallation Tasks

After you have installed Oracle Collaboration Suite Applications, perform the following steps:

1. If you have installed Oracle Mail, log in as root.
2. Set ORACLE_HOME.
3. Start the TNS listener as follows:

```
tnslsnr listener_es -user user_id -group group_id &
```

Checking Requirements

Check that your computer meets the minimum requirements:

- [Checking Hardware Requirements](#)
- [Installing Required Solaris Patches](#)
- [Checking Solaris Packages](#)
- [Checking for 64-bit Application Support](#)
- [Checking Kernel Parameters](#)
- [Creating an Operating System Group for the Inventory Directory](#)

- [Creating an Operating System Group for Database Administration](#)
- [Creating an Operating System User](#)
- [Checking Environment Variables](#)
- [Checking If Port 1521 Is in Use](#)

Checking Hardware Requirements

Your computer must meet the hardware requirements mentioned in the following sections.

Processor and Network Requirements

- SPARC processor with v9 architecture
- 450 MHz or greater processor speed is recommended. Use the following command to determine the processor speed:

```
# /usr/sbin/psrinfo -v
```

- Network connectivity
- Static Internet Protocol (IP) address

Other System Requirements

[Table 1](#) shows other system requirements.

Table 1 Minimum System Requirements

Item	Minimum Requirement	Command
Memory	Oracle Collaboration Suite Infrastructure: 1 Gigabyte (GB)	/usr/sbin/prtconf grep Memory
	Oracle Collaboration Suite Applications: 1 GB	
	Oracle Collaboration Suite Database: 1 GB	
	Note: For Oracle Collaboration Suite Infrastructure and Applications installation on a single computer, 2 GB or more is recommended.	
Disk space	Oracle Collaboration Suite Infrastructure: 8 GB	df -k dir Replace <i>dir</i> with the Oracle home directory or with the parent directory if the Oracle home directory does not exist yet.
	Oracle Collaboration Suite Applications: 5 GB	
	Oracle Collaboration Suite Database: 5.4 GB	

Table 1 (Cont.) Minimum System Requirements

Item	Minimum Requirement	Command
Space in /tmp directory	250 Megabytes (MB)	<code>df -k /tmp</code> If the /tmp directory does not have enough free space, then you can specify a different directory by setting the TMP environment variable.
Swap space	1.5 GB	<code>/usr/sbin/swap -l</code> See your operating system documentation for information about configuring additional swap space.
Monitor	256-color display	<code>/usr/openwin/bin/xwininfo</code> Look for the "Depth" line. You need a depth of at least 8 (bits for each pixel).

Installing Required Solaris Patches

Check that your computer has the following patches:

Patches Required for Solaris 8:

- 108652-82 or later: X11 6.4.1: Xsun patch
- 108921-21 or later: CDE 1.4: dtwm patch
- 108940-62 or later: Motif 1.2.7 and 2.1.1: Runtime library patch
- 108773-18 or later: IIIM and X input and output method patch
- 111310-01 or later: /usr/lib/libdhcagent.so.1 patch
- 109147-28 or later: Linker patch
- 111308-04 or later: /usr/lib/libmtmalloc.so.1 patch
- 112438-03 or later: /kernel/drv/random patch
- 108434-17 or later: 32-bit shared library patch for C++
- 108435-17 or later: 64-bit shared library patch for C++
- 111111-04 or later: /usr/bin/nawk patch
- 112396-02 or later: /usr/bin/fgrep patch
- 110386-03 or later: RBAC feature patch
- 111023-03 or later: /kernel/fs/mntfs and /kernel/fs/sparcv9/mntfs patch
- 111317-05 or later: /sbin/init and /usr/sbin/init patch

- 113648-03 or later: /usr/sbin/mount patch
- 115827-01 or later: /sbin/sulogin and /sbin/netstrategy patch
- 116602-01 or later: /sbin/uadmin and /sbin/hostconfig patch
- 108987-13 or later: Patch for patchadd and patchrm
- 108528-29 or later: Kernel update patch
- 108989-02 or later: /usr/kernel/sys/acctctl and /usr/kernel/sys/exacctsys patch
- 108993-36 or later: LDAP2 client, libc, libthread and libnsl libraries patch
- 109326-14 or later: libresolv.so.2 and in.named patch
- 110615-11 or later: sendmail patch

Patches Required for Solaris 9

- 113096-03 or later: X11 6.6.1: OWconfig patch
- 112785-35 or later: X11 6.6.1: Xsun patch

How to Check for Patches

To determine which patches are installed on your computer:

1. Use the `showrev` command with the `-p` option. The following command saves the sorted output to a file called `patchList`.

```
# showrev -p | sort > patchList
```
2. Open the file in a text editor, such as `vi` or `emacs`, and search for patch numbers.

If You Need Patches

You can download patches from

<http://sunsolve.sun.com>.

Checking Solaris Packages

Check that your computer has the following packages:

- `SUNWarc`
- `SUNWbtool`
- `SUNWhea`
- `SUNWlibm`
- `SUNWlibms`
- `SUNWsprot`

- SUNWsprx

Note: This package is not required for Solaris 10 (SPARC 64-bit) installation.

- SUNWtoo
- SUNWilof (the character after the "i" is the number 1, not the letter "ell")
- SUNWxwft
- SUNWilcs (the character after the "i" is the number 1, not the letter "ell")
- SUNWil5cs (the character after the "i" is the number 1, not the letter "ell")

To check if the required operating system packages are installed on your computer, use the following command:

```
# pkginfo SUNWarc SUNWbtool SUNWhea SUNWlibm SUNWlibms  
SUNWsprt SUNWsprx SUNWtoo SUNWilof SUNWxwft SUNWilcs  
SUNWil5cs
```

If your computer is missing a package, then contact your system administrator.

Checking for 64-bit Application Support

Check that your computer is configured to support 64-bit applications. To check this, use the following command:

```
# /usr/bin/isainfo -v
64-bit sparcv9 applications
32-bit sparc applications
```

The output must display the "64-bit sparcv9 applications" line. If not, then you need to reconfigure your computer to support 64-bit applications. Check with your system administrator.

Checking Kernel Parameters

Verify that the required kernel parameters are set either to the formula shown, or to values greater than or equal to the recommended value shown in the following subsections.

Solaris 8 and Solaris 9 Operating Systems

To check the kernel parameters in Solaris 8 and Solaris 9 operating systems, perform the following steps:

1. Open the `/etc/system` file in a text editor. You need to be the root user to edit the `/etc/system` file.
2. Check that these parameters are set to at least the minimum values:

- `set semsys:seminfo_semgni=100`

Note: For Applications tier installation, the value of the `semgni` parameter must be set to 554 or higher.

- `set semsys:seminfo_semnms=256`

Note: For Applications tier installation, the value of the `semnms` parameter must be set to 1024 or higher.

- `set semsys:seminfo_semnmu=1042`

- `set semsys:seminfo_semmsl=256`
- `set semsys:seminfo_semaem=16384`
- `set semsys:seminfo_semopm=12`
- `set semsys:seminfo_semume=42`
- `set semsys:seminfo_sevmx=32767`
- `set shmsys:shminfo_shmmax=4294967295`
- (Solaris 8 only) `set shmsys:shminfo_shmmin=1`
- (Solaris 8 only) `set shmsys:shminfo_shmseg=10`

Note: For Applications tier installation, the value of the shmseg parameter must be set to 17 or higher.

- `set shmsys:shminfo_shmmni=100`

Note: For Applications tier installation, the value of the shmmni parameter must be set to 117 or higher.

- `set msgsys:msginfo_msgmax=4096`
 - `set msgsys:msginfo_msgmni=3774`
 - `set msgsys:msginfo_msgtql=2500`
 - `set msgsys:msginfo_msgmnb=360000`
 - `set rlim_fd_cur=1024`
 - `set rlim_fd_max=4117`
 - `set noexec_user_stack=1`
3. If you changed the value of any of the parameters in the file, restart the computer for the new values to take effect.

Solaris 10 Operating Systems

To check the kernel parameters in Solaris 10 operating systems, perform the following steps:

1. Open the `/etc/system` file in a text editor. You need to be the root user to edit the `/etc/system` file.
2. In Solaris 10, you are not required to make changes to the `/etc/system` file to implement the System V TPC. Solaris 10 uses the resource control facility for its implementation. verify that the kernel parameters shown in [Table 2](#) are set to values

greater than or equal to the recommended value shown. The table also contains the resource controls that replace the `/etc/system` file for a specific kernel parameter.

Table 2 *Kernel Parameter and Resource Control Settings for Solaris 10 Systems*

Parameter	Replaced by Resource Control	Recommended Value
<code>noexec_user_stack</code>	NA	1
<code>semsys:seminfo_ semmni</code>	<code>project.max-sem-ids</code>	100
<code>semsys:seminfo_semmsl</code>	<code>project.max-sem-nsems</code>	256
<code>shmsys:shminfo_ shmmax</code>	<code>project.max-shm-memory</code>	4294967295
<code>shmsys:shminfo_ shmmni</code>	<code>project.max-shm-ids</code>	100

3. To view the current values of the resource control, enter the following commands:

```
# id -p // to verify the project id
uid=0(root) gid=0(root) projid=1 (user.root)
```

```
# prctl -n project.max-shm-memory -i project
user.root
# prctl -n project.max-sem-ids -i project user.root
```

4. If you must change any of the current values, then perform the following:

- a. To modify the value of max-shm-memory to 6 GB:

```
# prctl -n project.max-shm-memory -v 6gb -r -i
project user.root
```

- b. To modify the value of max-sem-ids to 256:

```
# prctl -n project.max-sem-ids -v 256 -r -i
project user.root
```

Creating an Operating System Group for the Inventory Directory

If this is the first Oracle product to be installed on the computer, create an operating system group for the inventory directory. The installer creates files in the inventory directory to keep track of the Oracle products that are installed on the computer.

This guide uses the name `oinstall` for this group.

In "Creating an Operating System User" on page 58, you will create an operating system user, and set this group to be the primary group of the user.

By having a separate group for the inventory directory, you enable different users to install Oracle products on the computer. Users need write permission for the inventory directory. They can achieve this by belonging to the `oinstall` group.

The default name of the inventory directory is `oraInventory`.

If you are unsure if there is already an inventory directory on the computer, look in the `/home/oracle/oraInst.loc` file. This file lists the location of the inventory directory and the group who owns it. If the file does not exist, the computer does not have Oracle products installed on it.

How to Create a Group

To create a local operating system group, use the Solaris Management Console as follows:

1. Set the `DISPLAY` environment variable to point to the monitor where you want the Solaris Management Console window to appear. The format of the `DISPLAY` environment variable is:

hostname:display_number.screen_number

Example (C shell):

```
% setenv DISPLAY test.mycompany.com:0.0
```

Example (Bourne or Korn shell):

```
$ DISPLAY=test.mycompany.com:0.0; export DISPLAY
```

2. Start the Solaris Management Console.

```
# /usr/sadm/bin/smc
```
3. In the left frame, expand **This Computer**, then expand **System Configuration**.
4. Click **Users**. This displays the Log In window.
5. In the Log In window, log in as the `root` user.
6. In the left frame, expand **Users** and select **Groups**.
7. Select **Action**, then select **Add Group**.
8. In **Group Name**, enter the `oinstall` as the name of the group.
9. This step is optional. In **Group ID Number** field, enter an ID number for the group.

10. Click OK.

Creating an Operating System Group for Database Administration

Using the same steps in the preceding section, create an operating system group called `dba`.

When you next create an operating system user, you will set this `dba` group to be the secondary group of the user.

Creating an Operating System User

Create an operating system user to install and upgrade Oracle products. This guide refers to this user as the `oracle` user.

How to Create a User

To create a local operating system user, use the Solaris Management Console:

1. Set the `DISPLAY` environment variable to point to the monitor where you want the Solaris Management Console window to appear. The format of the `DISPLAY` environment variable is:

hostname:display_number.screen_number

Example (C shell):

```
% setenv DISPLAY test.mycompany.com:0.0
```

Example (Bourne or Korn shell):

```
$ DISPLAY=test.mycompany.com:0.0; export DISPLAY
```

2. Start the Solaris Management Console.

```
# /usr/sadm/bin/smc
```

3. In the left frame, expand **This Computer**, then expand **System Configuration**.
4. Click **Users**. This displays the Log In window.
5. In the Log In window, in **User Name**, enter `root`. In **Password**, enter the root password.
6. In the left frame, expand **Users** and select **User Accounts**.
7. Select **Action**.
8. Select **Add User**, then select **With Wizard**.
9. In **User Name**, enter the name of the user (`oracle`). The **Full Name** and **Description** fields are optional. Click **Next**.
10. In **User ID Number**, accept the default value. Click **Next**.

11. Select **User Must Use This Password At First Login**, and enter a password for the user. Click **Next**.
12. In **Primary Group**, select the primary group for the user. This is the group you created earlier for the inventory directory. See ["Creating an Operating System Group for the Inventory Directory"](#) on page 55. Click **Next**.
13. In **Path**, enter a home directory for the user. Click **Next**.
14. Review the mail server information for the user and click **Next**.
15. Review the user information and click **Finish** to create the user.

To check which groups an operating system user belongs to, use the `groups` command with the name of the user. For example:

```
# groups oracle
```

Checking Environment Variables

The operating system user who will be installing Oracle Collaboration Suite needs to set or unset the following environment variables.

Table 3 *Environment Variables*

Environment Variable	Set or Unset
DISPLAY	Set it to the monitor where you want the installer window to appear.
ORACLE_HOME	Must not be set.
ORACLE_SID	Must not be set.
TNS_ADMIN	Must not be set.
PATH, CLASSPATH, and LD_LIBRARY_PATH	Must not contain references to directories in any Oracle home directories.
TMP	Optional. If unset, defaults to /tmp.

How to Set Environment Variables This section describes how to set environment variables:

Using the C shell:

```
% setenv variable_name value
```

Example (C shell):

```
% setenv DISPLAY test.mycompany.com:0.0
```

Using the Bourne or Korn shell:

```
$ variable_name=value; export variable_name
```

Example (Bourne or Korn shell):

```
$ DISPLAY=test.mydomain.com:0.0; export DISPLAY
```

Environment Variable Tips This section describes some things to look out for when setting environment variables:

- If you set environment variables in the `.profile` file, they might not be read. To ensure that environment variables are set to the correct values, check their values in the shell where you will be running the installer.
- To check the value of environment variables, use the `env` command. This displays all the currently defined environment variables and their values.

```
prompt> env
```

- If you use the `su` command to switch users (for example, switching from the `root` user to the `oracle` user), check the environment variables when you are the new user because the environment variables might not be passed to the new user.

This can happen even if you use `su` with the `-` parameter (`su - user`).

```
# /* root user */  
# su - oracle  
% env
```

Checking If Port 1521 Is in Use

This section is applicable only if you are installing the Oracle Collaboration Suite Infrastructure.

The Oracle Collaboration Suite Infrastructure installs an Oracle database, which uses port 1521 by default.

To check if port 1521 is in use:

```
# netstat -an | grep 1521
```

If port 1521 is in use by a third-party application, you need to configure the application to use a different port.

If port 1521 is in use by an existing Oracle database listener, you need to stop the listener before installing the Oracle Collaboration Suite Infrastructure.

Accessing the Welcome Page

After installation, access the Oracle Collaboration Suite Welcome page to verify that the installation was successful. The URL for the Welcome page is

`http://hostname.domainname:http_port`

Determine the `http_port` by looking in the `ORACLE_HOME/install/portlist.ini` file. The port is listed on the "Oracle HTTP Server listen port" line.

Note: If you have multiple instances of Oracle Collaboration Suite installed on a computer, each instance has its own set of port numbers. Check the `portlist.ini` file in the correct Oracle home directory to be sure you are using the correct port numbers.

The Welcome page provides links to these useful pages:

- What is new in Oracle Collaboration Suite 10g Release 1 (10.1.2)

- Oracle Enterprise Manager Application Server Control ("Application Server Control"), which is a browser-based administrative tool
- Release Notes
- Demos

Additional Resources

For more information, see these Oracle resources:

- Oracle Collaboration Suite Documentation Library CD-ROM
- Oracle Collaboration Suite platform-specific documentation on Oracle Collaboration Suite documentation CD-ROM

Printed documentation is available for sale in the Oracle Store at

<http://oraclestore.oracle.com>

You can also contact your Oracle representative to purchase printed documentation.

To download free release notes, installation documentation, white papers, or other collateral, visit Oracle Technology Network (OTN). You must register online before using OTN; registration is free and can be done at

<http://www.oracle.com/technology/membership/>

If you already have a user name and password for OTN, then you can go directly to the documentation section of OTN at

<http://www.oracle.com/technology/documentation>

Oracle Support Services

If you purchased Oracle Product Support, you can call Oracle Support Services for assistance. Oracle Support Services include phone assistance, version updates, and access to our service offerings. You have access to phone support 24 hours a day, 7 days a week. In the U.S.A., you can call Product Support at **1-800-223-1711**.

Make sure you have your CSI (CPU Support Identifier) number ready when you call. Keep the CSI number for your records, because it is your key to Oracle Support Services. The Oracle Store sends the CSI number to you in an e-mail alert when it processes your order. If you do not have your CSI number and you are in the U.S.A., you can look up your CSI number by accessing our online Order Tracker, which provides detailed order information. Go to the Oracle Store and click on Order Tracker located above the top navigation bar.

For Oracle Support Services locations outside the U.S.A., call your local support center for information about how to access support. To find the local support center in your country, visit the Support Web Center at

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

At the Support Web Center you will find information about Oracle Support Services, such as:

- Contact information
- Instructions on how to access electronic services
- Helpful Web sites
- Support resources
- Oracle Support Portfolio
- Oracle Support Services news

With Oracle Product Support, you have round-the-clock access to *OracleMetaLink*, the Oracle Support Services premier Web support offering. *OracleMetaLink* offers you access to installation assistance, product documentation, and a technical solution knowledge base.

It has technical forums, where you can post questions about your Oracle products and receive answers from Oracle Technical Support Analysts and other Oracle users. The questions and answers remain posted for the benefit of all users.

Oracle*MetaLink* options include:

- Technical Assistance Request (TAR) access
- Patch downloads
- Bug database query access
- Product life-cycle information

You can access Oracle*MetaLink* at

<http://metalink.oracle.com>

Version Updates

If you do not have a currently supported license, you can purchase the most recent version of an Oracle product from the Oracle Store at

<http://oraclestore.oracle.com>

If you do have a currently supported license, you can place non-urgent requests for Version Update shipments through the iTAR feature on *OracleMetaLink*. You will need to log the iTAR type as a U.S. Client Relations/Non-Technical Request.

You can also request Version Update shipments in the U.S.A. by calling Client Relations. When requesting a Version Update, provide the following information to the Client Relations Analyst:

- CSI number
- Contact information
- Platform
- Product name
- Shipping address
- Version number of the product

Outside the U.S.A., call your local Oracle Support Center.

Premium Services

For information about our Premium Services, including onsite support, *OracleGOLD*, remote services, and upgrade packages, visit the Support Web Center at

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

or call your Support Sales Representative in the U.S.A. at
1-800-833-3536.

Quick Reference

Resource	Contact Information or Web Site
Oracle <i>MetaLink</i>	http://metalink.oracle.com
Purchase additional products, full-use licenses, version updates, and documentation in the U.S.A.	http://oraclestore.oracle.com
Access technical resources for developers	http://www.oracle.com/technology/index.html
Access all documentation	http://www.oracle.com/technology/documentation/collab.html
Access information about technical support	http://www.oracle.com/support
Locate local Oracle Support Centers outside the U.S.A.	http://www.oracle.com/support

Resource	Contact Information or Web Site
Locate local Oracle offices outside the U.S.A	http://www.oracle.com/global/index.html
Call Client Relations in the U.S.A.	1-800-223-1711
Speak with your sales representative in the U.S.A.	1-800-ORACLE-1
Obtain TTY access to technical support in the U.S.A.	1-800-446-2398

