

Oracle® Secure Enterprise Search

Installation Guide

10g Release 1 (10.1.8.2) for AIX 5L Based Systems (64-Bit)

E10600-01

October 2007

This document describes how to install Oracle Secure Enterprise Search (SES). It includes the following sections:

- [Installing Oracle Secure Enterprise Search](#)
- [Upgrading Oracle Secure Enterprise Search](#)
- [Restarting Oracle Secure Enterprise Search](#)
- [What to Do Next?](#)
- [Additional Resources](#)
- [Documentation Accessibility](#)

Note: After installing Oracle SES, check to see if there is a patch set or critical patch update (CPU) available. A CPU is a collection of patches for security vulnerabilities. It also includes non-security fixes required (because of interdependencies) by those security patches. CPUs are cumulative, and they are provided quarterly on the Oracle Technology Network. Oracle SES 10.1.8.2 includes the July 2007 CPU for the underlying 10.1.0.5 database. If a later CPU is available, then install that. For more information about CPUs, see:

<http://www.oracle.com/security/critical-patch-update.html>

See Also: Up-to-date Release Notes are posted on 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>

Installing Oracle Secure Enterprise Search

This section contains the following topics:

- [Pre-Installation Tasks](#)
- [Installation Tasks](#)

- [Silent Installation Tasks](#)
- [Deinstallation Tasks](#)

Pre-Installation Tasks

This section contains the following topics:

- [Oracle SES Certifications](#)
- [General Requirements for Installing Oracle Software](#)
- [Checking the Software Requirements](#)
- [Checking the Hardware Requirements](#)
- [Configuring Shell Limits and System Configuration Parameters](#)
- [Installing on a Port Number Less Than 1024](#)
- [Changing the Oracle SES Middle Tier Port](#)
- [Checking the Oracle Base Directory](#)
- [Setting the Correct Locale](#)

Oracle SES Certifications

Oracle SES can be installed on the following AIX operating systems:

- AIX 5.2 ML01 (64-bit)
- AIX 5.3 (64-bit)

These are the only supported distributions and versions. Do not install Oracle SES on other versions of AIX.

The Oracle SES administration tool and default query application are certified on the following browsers:

- Firefox 1.0, 1.0.1, 1.0.6, 1.0.7, 1.5, 2.x
- Internet Explorer 6.0, 7.0
- Netscape 7.1, 7.2
- Mozilla 1.7.3

Note: New 10.1.8.2 user interface features (including clustering results, sorting and grouping results, browsing with the tree popup, and customizing the result list) work in Internet Explorer versions 6 and 7 and Firefox versions 1.5 and 2.x only. Existing 10.1.8.1 functionality works on all Oracle SES-supported browsers through the classic user interface:
`http://<host>:<port>/search/query/search-classic.jsp`

The requirements and certifications included in this installation guide were current at the time this guide was published. See the certification matrix on the *OracleMetaLink* Web site for the most up-to-date information.

See Also: ["Oracle Support Services"](#) on page 17

General Requirements for Installing Oracle Software

The following sections describe the general requirements for installing Oracle software:

- [Logging In to the System as root](#)
- [Required Operating System Group and User](#)
- [Oracle Inventory Group](#)
- [Oracle Software Owner User](#)

Logging In to the System as root Before you install Oracle software, you must complete several tasks as the `root` user. To log in as the `root` user, complete one of the following procedures:

Note: Unless you intend to complete a silent installation, you must install the software from an X Window System workstation, an X terminal, or a PC or other system with X server software installed.

- If you are installing the software from an X Window System workstation or X terminal, then:
 1. Start a local terminal session, for example, an X terminal (`xterm`).
 2. If you are not installing the software on the local system, then enter the following command to enable the remote host to display X applications on the local X server:

```
$ xhost fully_qualified_remote_host_name
```
 3. If you are not installing the software on the local system, then use the `ssh`, `rlogin`, or `telnet` command to connect to the system on which you want to install the software:

```
$ telnet remote_host
```
 4. If you are not logged in as the `root` user, then enter the following command to switch user to `root`:

```
$ su - root
```
- If you are installing the software from a PC or other system with X server software installed, then:

Note: If required, refer to your X server documentation for more information about completing this procedure. Depending on the X server software that you are using, you may need to complete the tasks in a different order.

1. Start the X server software.
2. Configure the security settings of the X server software to permit remote hosts to display X applications on the local system.

3. Connect to the remote system on which you want to install the software and start a terminal session on that system, for example, an X terminal (xterm).
4. If you are not logged in as the `root` user on the remote system, then enter the following command to switch user to `root`:

```
$ su - root
```

Required Operating System Group and User Depending on whether this is the first time Oracle software is being installed on this system and on the products that you are installing, you may need to create the following operating system group and user:

- Oracle Inventory group (typically, `oinstall`)

You must create the Oracle Inventory group the first time you install Oracle software on the system. The usual name chosen for this group is `oinstall`. This group owns the Oracle inventory, which is a catalog of all Oracle software installed on the system.

Note: If Oracle software is already installed on the system, then the existing Oracle Inventory group must be the primary group of the operating system user that you use to install new Oracle software.

- Oracle software owner user (typically, `oracle`)

You must create the Oracle software owner user the first time you install Oracle software on the system. This user owns all of the software installed during a given installation. This user must have the Oracle Inventory group as its primary group.

Note: In Oracle documentation, the Oracle software owner user is referred to as the `oracle` user.

A single Oracle Inventory group is required for all installations of Oracle software on the system. After the first installation of Oracle software, you must use the same Oracle Inventory group for all subsequent Oracle software installations on that system. However, you can choose to create different Oracle software owner users for different installations.

Note: As an alternative to creating local users and groups, you can create the appropriate users and groups in a directory service. For example, Network Information Services (NIS). Contact your system administrator or refer to your operating system documentation for information about using directory services.

Oracle Inventory Group If Oracle software is already installed on the system, then the existing Oracle Inventory group must be the primary group of the operating system user that you use to install new Oracle software. This section describes how to identify an existing Oracle Inventory group and, if required, to create it.

When you install Oracle software on the system for the first time, Oracle Universal Installer creates the `oraInst.loc` file. This file identifies the name of the Oracle Inventory group and the path of the Oracle Inventory directory. To determine if the Oracle Inventory group exists, enter the following command:

```
more /etc/oraInst.loc
```

If the output of this command shows the `oinstall` group name, then the group already exists.

If the `oraInst.loc` file exists, then the output from this command is similar to the following:

```
inventory_loc=/u01/app/oracle/oraInventory
inst_group=oinstall
```

The `inst_group` parameter shows the name of the Oracle Inventory group, `oinstall`.

To create the Oracle Inventory group: If the `oraInst.loc` file does not exist, then create the Oracle Inventory group by using the following procedure:

1. Enter the following command:

```
# smit security
```

2. Choose the appropriate menu items to create the `oinstall` group.
3. Press F10 to exit.

Note: Oracle recommends that you use the group name `oinstall` for the Oracle Inventory group.

Oracle Software Owner User You must create an Oracle software owner user if any of the following conditions is true:

- An Oracle software owner user does not exist; for example, if this is the first installation of Oracle software on the system.
- An Oracle software owner user exists, but you want to use a different operating system user.

Note: In this document, the Oracle software owner user is referred to as `oracle`.

To determine if an Oracle software owner user named `oracle` exists, enter the following command:

```
# id oracle
```

If the `oracle` user exists, then the output from this command is similar to the following:

```
uid=440(oracle) gid=200(oinstall) groups=201(dba),202(oper)
```

If the user exists, then determine whether you want to use the existing user or create a user. If you want to use the existing user, then ensure that the user's primary group is the Oracle Inventory group.

Note: If necessary, contact your system administrator before using or modifying an existing user.

To create an Oracle Software Owner User: If the Oracle software owner user does not exist or if you require a new Oracle software owner user, then create it as follows. In the following procedure, use the user name `oracle` unless a user with that name already exists.

1. Enter the following command:

```
# smit security
```

2. Choose the appropriate menu items to create the `oracle` user, specifying the following information:
 - In the **Primary GROUP** field, specify the Oracle Inventory group, for example `oinstall`.
 - In the **Group SET** field, specify optional secondary groups such as `dba`.

Note: The UID for the `oracle` user must be less than 65536.

3. Press F10 to exit.
4. Set the password of the `oracle` user:

```
# passwd oracle
```

If the `oracle` user exists, but its primary group is not `oinstall` or it is not a member of the appropriate groups, then you can modify it as follows:

1. Enter the following command:

```
# smit security
```

2. Choose the appropriate menu items to modify the `oracle` user.
3. In the **Primary GROUP** field, specify the Oracle Inventory group, for example `oinstall`.
4. In the **Group SET** field, specify the required secondary groups, for example `dba`.
5. Press F10 to exit.

Checking the Software Requirements

An AIX system must meet the following minimum software requirements, depending on your AIX distribution and version.

The following filesets must be installed and committed:

- `bos.adt.base`
- `bos.adt.lib`
- `bos.adt.libm`
- `bos.perf.libperfstat`
- `bos.perf.perfstat`

- bos.perf.proctools

To ensure that the system meets these requirements:

1. To determine which version of AIX is installed, enter the following command:

```
# oslevel -r
5200-01
```

If the operating system version is lower than AIX 5.2.0.0 Maintenance Level 1 (5200-01), upgrade your operating system to this level or higher. AIX maintenance packages are available from the following IBM Web site:

<https://techsupport.services.ibm.com/server/aix.fdc>

2. To determine whether the required filesets are installed and committed, enter the following command:

```
# lslpp -l bos.adt.base bos.adt.lib \
bos.adt.libm bos.perf.perfstat \
bos.perf.libperfstat bos.perf.proctools
```

If a fileset is not installed and committed, then install it from the operating system CD-ROM. See your operating system or software documentation for information about installing filesets.

Checking for Required Patches

5.2 required patches:

- IY43980
- IY44810
- IY45462
- IY45707
- IY46214
- IY46605
- IY48525
- IY51801
- IY59082 (Refer to *OracleMetaLink* Note 285158.1)

5.3 required patches:

- IY58143
- IY59386
- IY60930 (Refer to *OracleMetaLink* Note 282036.1)

Checking the Hardware Requirements

Oracle SES requires a minimum of 4 gigabytes of disk space. This includes 3.5 gigabytes to install and approximately .5 gigabyte to create the initial Oracle SES index. Additional Oracle SES requirements are based on the amount of data that you need to search. Here are some configuration examples:

To index 100,000 documents:

- 6 gigabytes disk space

- 1 gigabyte RAM

To index 1,000,000 documents:

- 20 gigabytes disk space
- 6 gigabytes RAM

The system must meet the following minimum hardware requirements:

- 512 MB of physical RAM
- Swap space equal to twice the size of RAM or 2 GB (2097152 KB), whichever is smaller
- 400 MB of disk space in the /tmp directory
- A minimum of 4 GB of disk space for the Oracle software, depending on the installation type and platform.
- 64-Bit system architecture

To ensure that the system meets these requirements, perform the following steps:

1. To determine the physical RAM size, enter the following command:

```
# /usr/sbin/lssattr -E -l sys0 -a realmem
```

If the size of the physical RAM installed in the system is less than 512 MB, you must install more memory before continuing.

2. To determine the size of the configured swap space, enter the following command:

```
# /usr/sbin/lssps -a
```

3. To determine the amount of free disk space available in the /tmp directory, enter the following command:

```
# df -k /tmp
```

If there is less than 400 MB of disk space available in the /tmp directory, complete one of the following steps:

- Delete unnecessary files from the /tmp directory to achieve the required disk space.
 - Extend the file system that contains the /tmp directory. If necessary, contact your system administrator for information about extending file systems.
4. To determine the amount of free disk on the system, enter the following command:
- ```
df -k
```

For installation help, including pre-installation tips, see the Oracle SES tutorial:

<http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm>

## Configuring Shell Limits and System Configuration Parameters

On AIX systems, you do not need to configure kernel parameters. However, Oracle recommends that you set shell limits and system configuration parameters as described in this section.

### Configuring Shell Limits

Verify that the shell limits shown in the following table are set to the values shown. The procedure following the table describes how to verify and set the values.

| Shell Limit (As Shown in smit) | Recommended Value                                         |
|--------------------------------|-----------------------------------------------------------|
| Soft FILE size                 | -1 (Unlimited)                                            |
| Soft CPU time                  | -1 (Unlimited)<br><b>Note:</b> This is the default value. |
| Soft DATA segment              | -1 (Unlimited)                                            |
| Soft STACK size                | -1 (Unlimited)                                            |

To view the current value specified for these shell limits, and to change them if necessary, follow these steps:

1. Enter the following command:  

```
smit chuser
```
2. In the **User NAME** field, enter the user name of the Oracle software owner, for example `oracle`.
3. Scroll down the list and verify that the value shown for the soft limits listed in the previous table is -1.  
If necessary, edit the existing value.
4. When you have finished making changes, press F10 to exit.

### Configuring System Configuration Parameters

Verify that the maximum number of processes allowed per user is set to 2048 or greater, as follows:

1. Enter the following command:  

```
smit chgsys
```
2. Verify that the value shown for **Maximum number of PROCESSES allowed per user** is greater than or equal to 2048.  
If necessary, edit the existing value.
3. When you have finished making changes, press F10 to exit.

### Installing on a Port Number Less Than 1024

Oracle SES must be installed by a non-root user. However, Linux and UNIX operating systems require that only root users can bind to ports less than 1024. Follow these steps to install Oracle SES on a port number less than 1024:

1. During installation, specify a port greater than or equal to 1024 (for example, 7777).
2. After the installation is complete, follow the instructions in the following section, "[Changing the Oracle SES Middle Tier Port](#)", to change to a port number less than 1024 (for example, 80).

### Changing the Oracle SES Middle Tier Port

To change the Oracle SES middle tier port, follow these steps:

1. Shutdown the middle tier with the following command:

```
$ORACLE_HOME/bin/searchctl stop
```

2. Edit the value for the port attribute in `$ORACLE_HOME/oc4j/j2ee/OC4J_SEARCH/config/http-web-site.xml`. (Make sure that the new port is not already in use.)

3. To change to a port less than 1024:

- a. As the root user, run the following:

```
chgrp -R root $ORACLE_HOME/jdk
```

- b. Log on as the root user and perform step 5.

4. To change from a port that was less than 1024 to a port that is greater than or equal to 1024:

- a. Log on as the root user.

- b. Run the following:

```
chown -R <user> $ORACLE_HOME/search/opmn
$ORACLE_HOME/oc4j/j2ee/OC4J_SEARCH/persistence
```

where `<user>` is the user that installed Oracle SES

- c. Log off from root user and log on as the user that installed Oracle SES.

5. Start the middle tier with the following command:

```
$ORACLE_HOME/bin/searchctl start
```

---

---

**Note:** `$ORACLE_HOME` represents the directory where Oracle SES was installed.

---

---

**Starting, Stopping, and Restarting Oracle SES** The tool for starting and stopping the search engine is `searchctl`. Follow these guidelines to start, stop, or restart Oracle SES on a port number less than 1024:

To start Oracle SES:

- The `searchctl startall` command must be run by the user who installed Oracle SES.
- The `searchctl start` command must be run by the root user.

To stop Oracle SES:

- The `searchctl stopall` command can be run by either the root user or the user who installed Oracle SES.

To restart Oracle SES:

- The `searchctl restartall` command must be run by the user who installed Oracle SES.
- The `searchctl start` command must be run by the root user.

---

**Note:** If you have shut down both the backend and the middle tier with the `searchctl stopall` command, then to successfully start them both, first run `searchctl startall` and then run `searchctl start`.

---

**See Also:** ["Restarting Oracle Secure Enterprise Search"](#) on page 16

### Checking the Oracle Base Directory

The Oracle home directory generally is a subdirectory of the Oracle base directory. Before installing Oracle SES, check to see if the `ORACLE_BASE` environment variable is set. If it is, then make sure that you have write permission to that location. It is not recommended to put `ORACLE_BASE` under other user's account/location.

### Setting the Correct Locale

The correct environment parameter (`LANG`, `NLS_LANG` and `LC_ALL`) should be set before Oracle SES is installed.

For file sources to successfully crawl and display multibyte environments, the locale of the machine that starts the Oracle SES server must be the same as the target file system. This way, the Oracle SES crawler can "see" the multibyte files and paths.

If the locale is different in the installation environment, then Oracle SES needs to be reinstalled from the environment with the correct locale. For example, for a Korean environment, either set `LC_ALL` to `ko_KR` or set both `LC_LANG` and `LANG` to `ko_KR.KSC5601`. Then run `searchctl restartall` from an xterm.

## Installation Tasks

For easy instructions on installing Oracle SES, see the Installation Tips tutorial:

<http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm>

In the following instructions, the disc mount point is referred to as `/SD_DVDROM`. If your mount point is different, then substitute the correct mount point name for all references to `/SD_DVDROM`.

To start the installer:

1. Ensure that you have checked all the minimum requirements, as described in ["Pre-Installation Tasks"](#) on page 2.
2. Log on to the computer as the user who will install Oracle SES. (Oracle SES must be installed by a non-root user.)
3. Insert the Oracle Secure Enterprise Search DVD.

4. If your computer does not have automount, then see "[Mounting the DVD-ROM](#)" on page 13 for steps on mounting the DVD-ROM manually.
5. Start up the installer:

```
cd
/SD_DVDROM/runInstaller
```

This launches Oracle Universal Installer.

---

---

**Note:** Do not run the installer from the mount point directory. The `cd` command changes your current directory to your home directory, so you do not start the installer from the mount point.

---

---

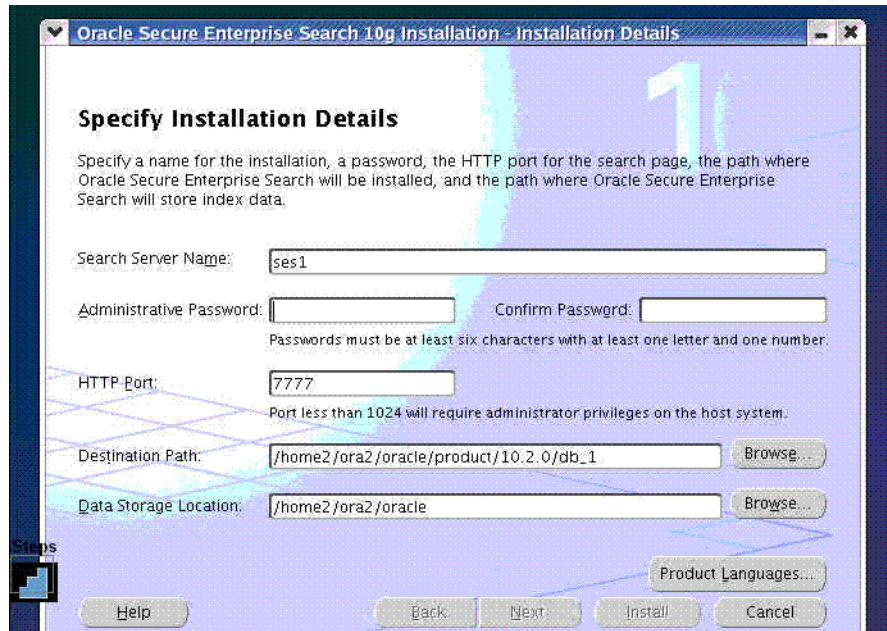
In the Oracle Universal Installer, the only value that you must specify is the administrative password. The remaining values are set to a default, but they can be overridden. Following is the list of the installation parameters:

- **Search Server Name:** Name for your search server. To connect multiple Oracle SES instances to the same directory (authorization) server, each instance must have a distinct name.
- **Administrative Password:** The password that you will later use to log on to the administration tool.
- **HTTP Port:** The port on which the Oracle SES middle tier will listen. For example, if you installed Oracle SES on host `myhost.oracle.com` and you specify port 7890, then your search page URL will be `http://myhost.oracle.com:7890/search/query/search`.

**See Also:** "[Installing on a Port Number Less Than 1024](#)" on page 9

- **Destination Path:** The location where Oracle SES software is installed.
- **Data Storage Location:** The location where Oracle SES will store its data.

The following screenshot shows the Oracle Universal Installer screen.



The following URLs indicate a successful installation:

- Search: `http://host:port/search/query/search`
- Administration tool:  
`http://host:port/search/admin/index.jsp` (Log on using the password specified during installation.)

### Installing on a System with an Existing Oracle SES Installation

You can install this release (or previous releases) of Oracle SES more than once on the same system as long as each installation is installed in a separate Oracle home directory. Use different values for the **Search Server Name**, **HTTP Port**, and **Destination Path** parameters.

You cannot install products from one release of Oracle SES into an Oracle home directory of a different release. For example, you cannot install release 10.1.8.2 software into an existing 10.1.6 Oracle home directory. If you attempt to install this release into an Oracle home directory that contains software from an earlier Oracle release, then the installation fails.

### Mounting the DVD-ROM

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

1. Insert the DVD-ROM.
2. Log in as the root user:

```
su
Password:
```

3. Create the DVD-ROM mount point directory:

```
/usr/bin/mkdir /SD_DVDROM
```

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

```
/usr/sbin/mount -rv cdrfs /dev/cd0 /SD_DVDROM
```

In the preceding example, `/SD_DVDROM` is the disc mount point directory and `/dev/cd0` is the device name for the disc device.

5. Log out from the root user.

```
exit
```

### Running the `rootpre.sh` Script

The root user is required to perform certain preinstallation operating system preparations. The root user should run the shell script `rootpre.sh` before the Oracle SES installation.

To run the `rootpre.sh` script, use the following procedure:

1. Switch user to root:

```
$ su - root
```

2. Run `rootpre.sh`:

```
/SD_DVDROM/rootpre/rootpre.sh
```

3. Exit from the root account:

```
exit
```

## Silent Installation Tasks

A silent installation has no graphical output and no input by the user. It is accomplished by supplying Oracle Universal Installer with a response file and specifying the `-silent` flag on the command line. Use silent installation when you want similar installations on more than one computer. Additionally, you can use silent installation when performing the Oracle SES installation from a remote location using the command line.

### Selecting a Response File

Before performing a silent installation, you must provide information specific to your installation in a response file. The installer will fail if you attempt an installation using a response file that is not configured correctly. Response files are text files that you can create or edit in a text editor.

Response files (`server.rsp`) are located in the `/response` directory on Disk 1 of the Oracle SES DVD. You must edit the response file according to your requirements for silent installation.

To use a response file, first copy it from the DVD to your system. For example:

1. Go to the `/response` directory
2. Copy the `server.rsp` file to your system hard drive:

```
cp server.rsp /private/ses/response/server.rsp
```

### Editing the Response File

Use any text editor to edit the response file to include information specific for your system. You must specify values for variables in your response file. Each variable listed in the response file is associated with a comment, which identifies the variable type. For example:

```
string = "Sample Value"
Boolean = True or False
Number = 1000
StringList = {"StringValue 1", "String Value 2"}
```

The values that are given as <Value Required> must be specified for silent installation. Remove the comment from the variable values in the response file before starting the Oracle SES installation.

### Specifying a Response File and Starting the Installation

Before you specify a response file, ensure that all the values in the response file are correct.

To make Oracle Universal Installer use the response file at installation time, specify the location of the response file as a parameter when starting Oracle Universal Installer. To perform a silent installation, use the `-silent` parameter:

```
./runInstaller -silent -responseFile <absolute_path_and_filename>
```

---

**WARNING:** During installation, response files may be copied to subdirectories in the Oracle home. When the installation completes successfully, these copies are removed. If the installation fails, however, these copies may not be removed. If you have provided passwords or other sensitive information in your response files, then delete any copies of the response files that remain in your file system.

---

When performing a silent installation, the installer asks for confirmation that the `rootpre.sh` script was run. It is important to run `rootpre.sh` to set up the AIX 5L system the first time. If this has been performed already, then the silent installation confirmation can be bypassed by setting the following environment variable before starting the `runInstaller`:

```
$ export SKIP_ROOTPRE=TRUE
```

The success or failure of silent installations is logged in the `installActions.log` file. Additionally, the silent installation creates the `silentInstall.log` file. The log files are created in the `$ORACLE_HOME/oraInventory/logs` directory.

The `silentInstall<Date_Time>.log` file contains the following line if the installation was successful:

```
The installation of Oracle Secure Enterprise Search was successful.
```

The corresponding `installActions<Date_Time>.log` file contains specific information regarding installation.

### Security Tips for Silent Installations

The response file contains the installation password in clear text. To minimize security issues, follow these guidelines:

- Set the permissions on the response files so that they are readable only by the operating system user performing the silent installation.

- If possible, remove the response files from the system after the silent installation is completed.

### Error Handling

Values for variables that are of the wrong context, format, or type are treated as if no value were specified. Variables that are outside any section are ignored.

If you attempt a silent installation with an incorrect or incomplete response file, or if Oracle Universal Installer encounters an error, such as insufficient disk space, the installation fails.

### Deinstallation Tasks

To uninstall Oracle SES, perform the following tasks:

1. Shut down the middle tier and database.
2. Run `$ORACLE_HOME/install/deinstall_ses` as the user who installed Oracle SES.

During installation, the `oradata` directory (which includes data files, control files, and log files) is created one directory level up from the Oracle home for Oracle SES. During uninstallation, the Oracle home is deleted, but the `oradata` directory (if it still exists outside of the Oracle home) is not deleted.

---

**Note:** If the Oracle SES instance was bound to a port less than 1024 and the middle tier ran as root user, then after deinstallation there could be files left under `$ORACLE_HOME`. After the deinstall completes, log on as the root user and delete those files.

---

### Upgrading Oracle Secure Enterprise Search

There is no direct upgrade support to release 10.1.8.2.

To upgrade to Oracle SES release 10.1.8.2, you must first upgrade to release 10.1.8.1 and then install the patch set for release 10.1.8.2.

**See Also:** *Oracle Secure Enterprise Search Patch Set Readme* for 10.1.8.2

### Restarting Oracle Secure Enterprise Search

The tool for starting and stopping the search engine is `searchctl`. To restart Oracle SES after rebooting, navigate to the `$ORACLE_HOME/bin` directory where Oracle SES is installed and run `searchctl restartall`. Users are prompted for a password when running `searchctl` commands on Linux and UNIX platforms.

For detailed steps, see the Startup / Shutdown lesson in the Oracle SES tutorial:

<http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm>

## What to Do Next?

To become familiar with Oracle Secure Enterprise Search, Oracle suggests that you complete the following tasks:

- Follow the Oracle Secure Enterprise Search tutorial:  
<http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm>
  - Log on to the Oracle SES administration tool, using the user name and password set in the installation. With the administration tool, you can:
    - Define sources to search
    - Configure and schedule the crawling of the sources
    - Monitor the status and performance of crawling and search
- Click the **Help** link in the top right corner of any page in the administration tool for context-sensitive help.
- In a production environment, where a load balancer or other monitoring tools are used to ensure system availability, Oracle SES can also be easily monitored through the following URL:  
<http://host:port/monitor/check.jsp>. The URL should return the following message: **Oracle Secure Enterprise Search instance is up**.

---

**Note:** This message is not translated to other languages, because system monitoring tools may need to byte-compare this string.

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If Oracle Secure Enterprise Search is not available, then the URL returns either a connection error or the HTTP error code 503.

## Additional Resources

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 on 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.

*OracleMetaLink* options include:

- Service Request (SR) access
- Patch downloads
- Bug database query access
- Product life-cycle information

You can access *OracleMetaLink* at

<https://metalink.oracle.com>

## Quick Reference

| Resource                                                                                          | Contact Information or Web Site                                                                       |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OracleMetaLink</i>                                                                             | <a href="https://metalink.oracle.com">https://metalink.oracle.com</a>                                 |
| Purchase additional products, full-use licenses, version updates, and documentation in the U.S.A. | <a href="http://oraclestore.oracle.com">http://oraclestore.oracle.com</a>                             |
| Access technical resources for developers                                                         | <a href="http://www.oracle.com/technology/index.html">http://www.oracle.com/technology/index.html</a> |
| Access information about technical support                                                        | <a href="http://www.oracle.com/support">http://www.oracle.com/support</a>                             |

| Resource                                               | Contact Information or Web Site                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Locate local Oracle Support Centers outside the U.S.A. | <a href="http://www.oracle.com/support">http://www.oracle.com/support</a>                     |
| Locate local Oracle offices outside the U.S.A.         | <a href="http://www.oracle.com/global/index.html">http://www.oracle.com/global/index.html</a> |
| 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                                                                                |

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### TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, 7 days a week. For TTY support, call 800.446.2398. Outside the United States, call +1.407.458.2479.

Oracle Secure Enterprise Search Installation Guide, 10g Release 1 (10.1.8.2) for AIX 5L Based Systems (64-Bit)  
E10600-01

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