

Oracle® Secure Enterprise Search

Release Notes

10g Release 1 (10.1.8.1) for All Platforms

B32516-06

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Oracle Secure Enterprise Search (SES) 10g Release 1 (10.1.8.1) Release Notes includes the following topics:

- [Version Information](#)
- [Supported Platforms](#)
- [Daylight Savings Time Update](#)
- [Known Issues](#)
- [Documentation Errata](#)
- [Documentation Accessibility](#)

Version Information

To identify detailed version information for your Oracle SES installation, run the following:

```
% $ORACLE_HOME/jdk/bin/jar -xvf $ORACLE_HOME/search/lib/search_query.jar  
"oracle/search/query/buildinfo.properties"
```

```
% cd ./oracle/search/query
```

The `buildinfo.properties` file contains detailed build information that can be provided upon request to Oracle Technical Support.

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

Supported Platforms

Oracle SES 10.1.8.1 supports the following platforms:

- Linux x86
 - Oracle Enterprise Linux 4
 - Red Hat Linux 3
 - Red Hat Linux 4
 - SUSE Linux Enterprise Server 9

- Linux x86-64
 - Oracle Enterprise Linux 4
 - Red Hat Linux 3
 - Red Hat Linux 4
 - SuSE Linux Enterprise Server 9
- Solaris SPARC (64-bit)
 - Solaris 8, 64-bit
 - Solaris 9, 64-bit
 - Solaris 10, 64-bit
- HP-UX PA-RISC (64-bit)
 - HP-UX 11.11
 - HP-UX 11.23
- AIX 5L Based Systems (64-bit)
 - AIX 5.2 ML01 (64-bit)
 - AIX 5.3 (64-bit)
- HP-UX Itanium
 - HP-UX 11i v2 (11.23)
- Windows
 - Windows Server 2003 - all editions
 - Windows 2000 with Service Pack 2 or later
 - Windows XP Professional

Note: Microsoft Exchange source type is supported on Windows 2003 Server Standard Edition and higher versions with the latest Service Pack.

Daylight Savings Time Update

On March 11th, 2007 new daylight saving time rules in the United States and Canada began. Oracle recommends that all customers update to the current daylight saving time information by applying the appropriate JDK daylight saving time patch.

This is recommended for the following platforms:

- Solaris Operating System (SPARC 64-Bit)
- AIX 5L Based Systems (64-Bit)
- HP-UX PA-RISC (64-Bit)
- HP-UX Itanium

The appropriate patch for each operating system is listed in the following table:

Table 1 Daylight Savings Time Patch

| Operating System | JDK Vendor |
|---|------------|
| Solaris Operating System (SPARC 64-Bit) | Sun |
| AIX 5L Based Systems (64-Bit) | IBM |
| HP-UX PA-RISC (64-Bit) | HP |
| HP-UX Itanium | HP |

The download link for each JDK vendor is listed in the following table:

Table 2 JDK Downloads

| JDK Vendor | Download Link | Download Product |
|------------|---|---|
| Sun | http://java.sun.com/javase/downloads/index.jsp | JDK US DST Timezone Update Tool - 1.1.0 |
| IBM | http://www-128.ibm.com/developerworks/java/jdk/dst/index.html | JTJU Version 1.3.7a |
| HP | http://www.hp.com/products1/unix/java/DST-US.html | 1.4/5.0 tzupdater 1.0.2c tool |

The Oracle Secure Enterprise Search JDK installation is at <ORACLE_HOME>/jdk

Follow the instructions provided with each JDK vendor's DST patch for information on how to use it to update the JDK installation that is a part of Oracle Secure Enterprise Search.

Known Issues

For updated information on bugs, workarounds, and best practices, see: <http://www.oracle.com/technology/products/oses/index.html>

This section contains the following topics:

- [Installation Issues](#)
- [Linux and UNIX Issues](#)
- [Microsoft Windows Issues](#)
- [Generic Issues](#)
- [File Source Issues](#)
- [OracleAS Portal Connector Issues](#)
- [EMC Documentum Content Server Connector Issues](#)
- [EMC Documentum eRoom Connector Issues](#)
- [Lotus Notes Connector Issues](#)
- [NTFS Connector Issues](#)
- [Open Text Livelink Issues](#)

Installation Issues

- The following post-installation manual steps are required after installing Oracle SES 10.1.8.1 (fresh installation or patch set installation):

1. Set \$ORACLE_HOME and \$ORACLE_SID. ORACLE_SID is the same as the **Search Server Name** set during installation.
2. Start the database instance running from the Oracle home you are patching.
3. Manual steps required for Oracle Database April CPU:

```
cd $ORACLE_HOME/cpu/CPUPr2007
$ORACLE_HOME/bin/sqlplus sys/[SES administrator password] as sysdba
SQL> @?/cpu/CPUPr2007/catcpu.sql
SQL> @?/rdbms/admin/utlpr.sql
SQL> SELECT OBJECT_NAME FROM DBA_OBJECTS WHERE STATUS= 'INVALID';
(Check for any invalid objects)
SQL> EXIT
```

4. Manual steps required for Opatch 4439469:

```
cd $ORACLE_HOME/rdbms/admin
$ORACLE_HOME/bin/sqlplus sys/[SES administrator password] as sysdba
SQL> ALTER USER ctxsys ACCOUNT UNLOCK;
SQL> CONN ctxsys/change_on_install
```

Note: An error message will say that the password for ctxsys has expired, and you will be prompted to enter a new password.

```
SQL> @?/rdbms/admin/drixmd.pkh
SQL> @?/rdbms/admin/drixmd.pkb
SQL> @?/rdbms/admin/drdddl.pkb
SQL> CONN sys/[SES administrator password] as sysdba
SQL> @?/rdbms/admin/utlpr.sql
SQL> ALTER USER ctxsys ACCOUNT LOCK;
SQL> EXIT
```

- If there is not enough free space in the /tmp folder, you can hit the following misleading error message:

```
"No pre-requisite checks found in oraparam.ini, no system pre-requisite
checks will be executed"
```

Workaround: Free up some space in the /tmp folder.

This is tracked with Oracle bug 6025810.

- The following harmless errors are reported in the installAction logs:

```
SQL> ERROR:
ORA-12560: TNS:protocol adapter error
SQL> SP2-0640: Not connected
SP2-0641: "EXECUTE" requires connection to server
SQL> SQL>
=====
The OracleServiceSES841 service is not started.
More help is available by typing NET HELPMSG 3521.
LSNRCTL for 32-bit Windows: Version 10.1.0.5.0 - Production on
```

13-DEC-2006
00:16
:31

```
Copyright (c) 1991, 2004, Oracle. All rights reserved.  
Connecting to  
@ (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP) (HOST=iwinrcg27.us.oracle.com)  
(PORT=1521)))  
TNS-12541: TNS:no listener  
TNS-12560: TNS:protocol adapter error  
TNS-00511: No listener  
32-bit Windows Error: 61: Unknown error  
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC) (KEY=EXTPROC1521)))  
TNS-12541: TNS:no listener  
TNS-12560: TNS:protocol adapter error  
TNS-00511: No listener  
32-bit Windows Error: 2: No such file or directory  
runOption=uninstall
```

Workaround. No action is necessary. These errors are the harmless.

This is tracked with Oracle bug 5713136.

- On Red Hat Linux 4 Update 2, the included CPU patch fails.

Workaround: Oracle strongly recommends that you upgrade to Red Hat 4 Update 3 or higher to avoid this error. Or, if "Secure Enterprise Search One-off Patch" fails:

1. Go to ORACLE_HOME/.patch_storage.
2. Delete patch_locked.
3. Re-run "Secure Enterprise Search One-off Patch".
4. Repeat steps 1 and 2 if the patch fails again.

This is tracked with Oracle bug 5674128.

- On Red Hat Linux 4.0 Update 2, there is an intermittent issue with install failure, as described in bug 5674128. This issue also affects silent installations.

Workaround: Oracle strongly recommends that you upgrade to Red Hat 4 Update 3 or higher to avoid this error.

This is tracked with Oracle bug 5674128.

Linux and UNIX Issues

- On Linux only, in high I/O situations the system may hang if a large number of document conversion errors are encountered.

Workaround: Turn off core file generation at the operating system level.

This is tracked with Oracle bug 5199037.

- On some UNIX platforms, the installation returns an error message: Skipping systeminfo.h: not a file or directory. This is because the systeminfo.h file is no longer present.

Workaround: No action is necessary. This message is harmless.

This is tracked with Oracle bug 5638453.

Microsoft Windows Issues

Attention Windows Laptop Users: If you frequently connect and disconnect your laptop from the network, or if you have your machine set to dynamically determine its IP address (DHCP protocol), then you must install a loopback adapter. See the *Oracle Secure Enterprise Search Installation Guide for Microsoft Windows (32-Bit)*.

- On Windows only, there can be performance problems when the system is loaded. The `oc4j.log` file shows `OutOfMemoryError` errors.

Workaround: Manually change the JVM heap size to 512MB minimum and 1024MB maximum:

1. Open the `$ORACLE_HOME/search/bin/searchctl.bat` file.
2. Find line that starts with `%OH%\jdk\bin\javaw.exe...`
3. Add following parameters to the command line:

```
%OH%\jdk\bin\javaw.exe -Xms512m -Xmx1024m ...
```

4. Restart the middle tier with `searchctl restartall`.

This is tracked with Oracle bug 6071156.

- If the crawling and index optimization schedules conflict with the database statistics gathering schedule, then system performance and availability will be affected due to database locking issues.

Workaround: Apply the fix for OPatch bug 4439469 from Oracle Metalink at <http://metalink.oracle.com>.

This is tracked with Oracle bug 4439469.

- On Windows only, you must be part of the Administrators group on Windows to install Oracle SES.

Workaround: Log on as a user with Administrator privileges to install.

This is tracked with Oracle bug 5471204.

- On Windows only, Oracle SES cannot allocate memory (SGA + PGA) correctly if the machine has more than 2G physical memory. The maximum memory usage Oracle SES can allocate is 800M.

Workaround: You can manually increase the maximum memory usage to 40% of the machine physical memory. Detailed instructions for this workaround are provided in the "Post-Installation Tasks" section of the *Oracle Secure Enterprise Search Installation Guide for Microsoft Windows (32-Bit)*.

This is tracked with Oracle bug 4620102.

Generic Issues

- On some platforms, there may be issues applying one-off patches using the OPatch utility on Oracle SES. The following error appears:

```
OPatch detects your platform as 912 while this patch 6009720 supports  
platforms:
```

```
0 (Generic Platform)
```

This patch is not suitable for this operating system.
Please contact support for the correct patch.

ERROR: OPatch failed during pre-reqs check.

Workaround: Apply the fix for OPatch bug 2617419 from Oracle Metalink at <http://metalink.oracle.com>. Then other Oracle SES one-off patches can be applied using OPatch.

This is tracked with Oracle bug 6066272.

- Queries against indexes with more than 200 million documents could fail with ORA-1410: invalid rowid errors, or wrong results could be returned.

Workaround: Make sure that the crawling and index optimization schedules do not conflict with the database statistic gathering schedule. Apply the fix for OPatch bug 5596325 from Oracle Metalink at <http://metalink.oracle.com>.

This is tracked with Oracle bug 5596325.

- Oracle SES WSRP portlet (or, *secure portlet*) does not support links with a multibyte URL (encoded URL).

This is tracked with Oracle bug 6023877.

- In Active Directory, the Windows "Domain Users" group typically is used as the primary group, where the group/member relationship is maintained by the `primaryGroupID` attribute. The Active Directory identity plug-in in Oracle SES cannot retrieve this attribute, so document access permission based on this group is not supported. (Note: Oracle SES *does* support group membership maintained by the `member/memberOf` attribute.

Workaround: A patch (on top of Oracle Internet Directory 10.1.4.0.1) is being prepared to address this issue. Check the status for bug 6005923 on ARU.

This is tracked with Oracle bug 6005923.

- When using federated search between a 10.1.8 (or 10.1.8.1) instance and a 10.1.6 instance, the group level browse functionality in the 10.1.8 (or 10.1.8.1) instance does not work.

Workaround: Download ARU patch number 5549906 and follow the instructions in the `readme.txt` file to patch the 10.1.6 instance.

This is tracked with Oracle bug 5549906.

- On the **Global Settings - Authentication** page, a `form.p_enableSSO` error appears if you have enabled JavaScript debugging on your browser.

Workaround: No action is necessary. Ignore this message.

This is tracked with Oracle bug 6006538.

- Oracle SES does not support a default entity to attribute mapping mechanism for XML content.

Workaround: A custom crawler plug-in is required to crawl and index XML. (see the *Oracle Secure Enterprise Search Administrator's Guide* for details).

This is tracked with Oracle bug 4501161.

- Limitations in the range of characters that can be used in the Suggested Links feature: Suggested links does not support keywords with a hyphen, such as e-travel. The characters +!~ in a query string are ignored while matching suggested links, and the characters ~!@#%^(*)_+=[\{}|!;:?,./<>"'& should be ignored in suggested links.

This is tracked with Oracle bugs 4434993, 4280409, and 4280437.

- After the crawler re-crawl policy is changed to **Process All Documents**, the matched hit count in the top right corner on end user Browse page is increased every time the schedule is run.

Workaround: View the correct hit count in parentheses following the source group name.

This is tracked with Oracle bug 5647166.

- The documented restrictions about changing ACL policies only work if the **Authorization** page for the source in the administration tool is current. If the page is not current, then you may be able to update the ACL policy in a way that should be disallowed.

Workaround: Before updating the ACL policy, ensure that the **Authorization** page is current by clicking the browser **Refresh** button.

This is tracked with Oracle bug 5065426.

- When using the Active Directory identity plug-in, protected documents cannot be searched for up to 15 minutes after a forced re-crawl completes.

This is tracked with Oracle bug 5638235.

- If a source is configured to use the user-defined security model, then the AuthorizationManager plug-in class name and jar file name cannot be modified. This restriction is in place for security reasons.

Workaround: If the AuthorizationManager plug-in details must be changed, then security for that source must be turned off to allow the change. After the ACL setting is changed to "No Access Control List" and applied, the AuthorizationManager details can be edited. **Warning:** While security is turned off, any user can access documents in the affected source. In addition, the new AuthorizationManager should share the same security attribute model as the previous one.

This is tracked with Oracle bug 5602289.

- Wildcard search inside a phrase is not supported.

This is tracked with Oracle bug 4451462.

- The Boolean OR operator is not supported between advanced search operators; for example, a site/filetype restricted term and other search terms.

This is tracked with Oracle bug 4451445.

- Oracle SES does not give any results if looping with different machines is configured for federated search.

This is tracked with Oracle bug 5461897.

- Browse categories render incorrectly in BIDI.

This is tracked with Oracle bug 4198113.

- The logUserClick operation is not supported.

This is tracked with Oracle bug 5090033.

- When editing user-defined sources, the following pages in the administration tool do not apply to the crawler plug-in:
 - **Authentication** page
 - **Crawling Parameters** page: Only the following fields on this page can be set for user-defined sources: **Number of Crawler Threads, Enable Language Detection, Default Language, Maximum Document Size.**
- In releases prior to 10.1.8, crawler plug-ins were located in the \$ORACLE_HOME/search/lib/agent/ directory. In 10.1.8 and later, they are located in the \$ORACLE_HOME/search/lib/plugins directory.

File Source Issues

- For file sources, you can use upper case "FILE" as the file protocol in the display URL to retrieve the file through the browser machine's operating system. However, the upper case is converted to lower case. For example, set the source display URL prefix to "file://localhost/" and the target display URL to "FILE://localhost/". After clicking **Apply**, the refreshed value for the target display URL becomes "file://localhost/", even though the underlying value is still upper case.

This is tracked with Oracle bug 5972152.

- If the correct environment parameter (LANG, NLS_LANG and LC_ALL) was not set when Oracle SES was installed, then the following error occurs when a search result is clicked that contains data on a file source:

```
Error : status = ERROR get file exception: file not found: ...
file.encoding=IBM-943C
```

This is tracked with Oracle bug 6013989.

OracleAS Portal Connector Issues

- Secure OracleAS Portal crawling requires the latest version of OracleAS Portal.

Workaround: The following table lists patch information necessary for each version of OracleAS Portal for which Oracle SES certifies. You either can apply the one-off patch on top of the listed version, or you can wait to upgrade to the next patch set indicated. (The patch set in the second column includes the one-off patch in the third column.) The one-off patches are available on Oracle Metalink at <http://metalink.oracle.com>. Enter the bug number for the appropriate OracleAS Portal release to get the patch.

Table 3 OracleAS Portal Patch Necessary for Secure OracleAS Portal Crawling

| OracleAS Portal Release | Patch Set to Upgrade | One-off Patch |
|-------------------------|----------------------|---|
| 9.0.4 | 9.0.4.3.0 | This is tracked with Oracle bug 4637116. This should be applied on top of 9.0.4.2.0. |
| 10.1.2 | 10.1.2.2.0 | This is tracked with Oracle bug 4637116. This should be applied on top of 10.1.2.0.2. |

Table 3 (Cont.) OracleAS Portal Patch Necessary for Secure OracleAS Portal

| OracleAS Portal Release | Patch Set to Upgrade | One-off Patch |
|--------------------------------|-----------------------------|--|
| 10.1.4 | 10.1.4.1.0 | <p>There are two patches associated with 10.1.4:</p> <p>1) This is tracked with Oracle bug 4995600. This should be applied on top of 10.1.4.0.0.</p> <p>2) This is tracked with Oracle bug 5448253. This should be applied on top of 10.1.4.0.0. <i>This one is not available yet.</i> See patch 5462373 in Metalink. This patch can raise a bug where the crawler displays informational messages if page attributes are not in the portal master attribute list or if there is a different attribute type in the page encountered.</p> |

EMC Documentum Content Server Connector Issues

- On AIX 5L Based Systems (64-bit), crawl of a Documentum source requires C++ runtime version of 6.0, 8.0 or higher to be installed on the system. Version 7.0 of the C++ runtime library is not certified. If this version is installed on the system, consider upgrading to version 8.0 instead.

This is a requirement of the Documentum Foundation Classes (DFC). Check the DFC documentation for the latest available certification information.

EMC Documentum eRoom Connector Issues

- Documentum eRoom sources require than an identity plug-in activated before you can create the source. If you create an eRoom source without an identity plug-in activated, then an error appears. However, the source is created and its schedule crawl fails.

Workaround: Delete the source and create a new source after the identity plug-in has been activated.

This is tracked with Oracle bug 5970186.

Lotus Notes Connector Issues

- The Lotus Notes connector does not handle wildcard ACL entries correctly; for example, `*/Oracle/JP`.

This is tracked with Oracle bug 5998158.

- When activating the Lotus Notes native identity plug-in, there is an intermittent failure to activate.

Workaround:

1. Deregister the Lotus Notes identity plug-in.
2. Register the Lotus Notes identity plug-in again.
3. Activate the Lotus Notes identity plug-in again.

This is tracked with Oracle bug 6035368.

- When associating Oracle SES 10.1.8.1 Linux x86-64 to Lotus Domino/Notes R5.0.9 using the Lotus Notes native identity plug-in, there is an intermittent failure in which the login link in the Oracle SES search page is not displayed.

This is tracked with Oracle bug 5950435.

NTFS Connector Issues

- The NTFS for UNIX connector encounters the following out of memory error when trying to crawl large (for example, 20megabyte) files:

```
EQG-30221: Crawler plug-in crawl error: java.lang.OutOfMemoryError  
java.lang.OutOfMemoryError
```

This is tracked with Oracle bug 5688691.

- On Windows, the Oracle SES process must be run as domain administrator to crawl remote machines on the domain. This is an important prerequisite to crawl remote machines for NTFS. Follow these steps to run the Oracle SES process as the domain administrator:
 1. Go to %ORACLE_HOME%\NETWORK\ADMIN.
 2. Edit `sqlnet.ora` by changing "SQLNET.AUTHENTICATION_SERVICES=(NTS)" to "SQLNET.AUTHENTICATION_SERVICES=(NONE)".
 3. Go to **Control Panel - Administrative Tools - Services**.
 4. Select the process **OracleService<Search Server Name that you specified during installation>**.
 5. Stop this process.
 6. Right-click and select **Properties**.
 7. Select the **Log on** tab.
 8. Select the **This account** option and enter the domain administrator name and password.
 9. Restart Oracle SES with `searchctl startall`.

If the following error appears:

```
ORA-01017: invalid username/password; logon denied please issue the  
following statements during startup and shutdown:
```

Enter the following statement if the error appears after Oracle SES startup:

```
> sqlplus eqsys/<admin passwd>  
> EXECUTE eq_adm.del_passwd_cleanup;
```

Or, enter the following statement if the error appears before Oracle SES shutdown:

```
> sqlplus eqsys/<admin passwd>  
> EXECUTE eqsys.eq_crw.stop_all_schedules(60,5);
```

This is tracked with Oracle bug 5601413.

Open Text Livelink Issues

- Open Text Livelink sources cannot index any documents.

This is tracked with Oracle bug 6051018.

Documentation Errata

This section lists late-breaking changes in the documentation.

Online Help

- The online help page for the **Global Settings - Proxy Settings** page includes the following incorrect section for "Exceptions":

"Because internal Web sites should not go through the proxy server, specify proxy domain exceptions if the proxy server is set. Enter the host name suffix that should not go through the proxy in the exception field. Use the suffix of the host name without http. For example, us.example.com, example.com, uk.example.com, examplecorp.com. The no proxy checking is strictly a suffix matching of the host name. IP address can only be used when the URL crawled is also specified in IP for the host name. In other words, they must be consistent."

This should be replaced with the following:

"Because internal Web sites should not go through the proxy server, specify proxy domain exceptions if the proxy server is set. Enter the host name suffix that should not go through the proxy in the exception field. To exclude the entire domain, use the suffix of the host name without http and begin with *.; for example, *.us.example.com, *.example.com, *.uk.example.com. If the .* prefix is not entered, then it is automatically added by Oracle SES. For example, fred.oracle.com excludes bill.fred.oracle.com but *not* fred.oracle.com. (The crawler does not support single host name exclusion yet.) The no proxy checking is strictly a suffix matching of the host name. IP address can only be used when the URL crawled is also specified in IP for the host name. In other words, they must be consistent."

This should also be added in chapter 6 of the *Administrator's Guide*, in the section "Registering a Proxy".

- The online help page for the **Home - Sources - Create Table Source** page includes a section called "Limitations with Database Links". This information is not correct. For full documentation about the benefits and limitations of table sources and database sources, see the section "Understanding Table Source vs. Database Sources" in the *Oracle Secure Enterprise Search Administrator's Guide*.
- The online help for the **Home - Sources - Create Table Source** page should include the following line at the end of the description for **Primary Key Column** and **Content Type**:

"The only supported columns are VARCHAR, VARCHAR2, CHAR, CLOB and BLOB."
- The online help pages link to a full copyright page. The linked copyright page in the online help for the installation and the end user search page is not translated.

Installation Guide for Linux x86

- The "Uninstallation Tasks" section should be replaced with the following:

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.

See Also: Bug 5713136

- The "Pre-Installation Tasks" should contain the following note:

Note: Oracle Enterprise Linux 4 is compatible with Red Hat Linux 4. Perform the same tasks for Oracle Enterprise Linux 4 as Red Hat Linux 4. The software requirements (such as kernel and package versions) are similar.

Installation Guide for AIX 5L Based Systems (64-Bit)

When performing a silent installation on AIX 5L-based systems (64-Bit), 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
```

Administrator's Guide

- Chapter 5, Table 5-1 lists the version supported for EMC Documentum Content Server as 5.3 SP2. In addition, versions 5.1, and 5.2.5 are supported.

Also, Table 5-1 should include the following five items:

Table 4 Identity Plug-ins for Enterprise Content Sources

| Source Type | Versions Supported | Identity Plug-in |
|----------------------|----------------------------------|---|
| Business Objects | Business Objects XI Release 2 | Oracle Internet Directory |
| Cognos | 8 | Oracle Internet Directory |
| Database | Any databases with a JDBC driver | Database |
| EMC Documentum eRoom | 7.3 | Active Directory, Oracle Internet Directory |
| MicroStrategy | 7.2, 7.3, 7.5, 8.0 | Oracle Internet Directory |

- The following section under "Important Notes for EMC Documentum Content Server Sources" is required *for UNIX platforms only*. This step should be ignored for non-UNIX platforms:

Push the DCS libraries to global libraries by adding the following lines to the oc4j/j2ee/OC4J_SEARCH/config/application.xml file:

```
<library path="../../../search/lib/plugins/dcs/dfcbase.jar" />
<library path="../../../search/lib/plugins/dcs/dfc.jar" />
<library path="../../../search/lib/plugins/dcs" />
<library path="../../../search/lib/log4j.jar" />
```

- Chapter 5, the following sections should include the following note:
 - "Setting Up Database Sources"
 - "Setting Up Siebel 7.8 Sources"
 - "Setting Up Oracle E-Business Suite 11i Sources"

Note: Set the **Parse Attributes** parameter to false when the content is type text/html. Set it to true to index HTML tags as attributes.

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