

Oracle® Secure Enterprise Search

Release Notes

11g Release 1 (11.1.2.0.0)

E14877-06

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This document contains important information for Oracle Secure Enterprise Search 11g Release 1 (11.1.2.0.0) that is not included in the regular documentation.

This document may be updated after it is released. To check for updates to this document and to view other Oracle documentation, refer to the Documentation section on the Oracle Technology Network (OTN) Web site:

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

This document contains the following topics:

- [Mandatory Software Patches](#)
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Mandatory Software Patches

You can download software patches from My Oracle Support at

<https://support.oracle.com>

- Install this patch after installing or upgrading to 11.1.2:
9647327: SES 11.1.2 GROUPBY AND SORTBY ERROR MESSAGE "UNABLE TO FETCH ADDITIONAL RESULTS"
- Install this patch during an upgrade, as described in "[Patch 9740780 Upgrade Instructions](#)":
9740780: UPGRADE TAKES VERY LONG TIME FOR LARGE INDEX
- Install this patch after installing or upgrading to 11.1.2:
9625180: EQ_SYS AND EQ_TEST DB PASSWORDS EXPIRE AFTER 180 DAYS, SEARCH THROWS ORA-28001

Patch 9740780 Upgrade Instructions

Patch 9740780 significantly reduces the time needed to upgrade the index. The following steps supplement but do not replace the upgrade procedures in the *Oracle Secure Enterprise Search Installation and Upgrade Guide* for your Linux or UNIX-based platform.

To install the patch during an interactive upgrade to Oracle SES 11.1.2.0.0:

1. Complete the preupgrade steps in the *Oracle Secure Enterprise Search Installation and Upgrade Guide*.
2. Review "[Upgrade Issues](#)" on page 4 for additional preupgrade steps.
3. Download patch 9740780 to the installation system from My Oracle Support at <https://support.oracle.com>

Tip: Do not unzip it yet.

4. Start Oracle Universal Installer for Oracle SES 11g Release 1 (11.1.2.0.0).
5. Choose to upgrade the existing installation, and enter the installation paths and administrative password as required.
6. On the Install page, watch the installation messages closely. Click **Stop Installation** when "Installation in progress" changes to "Install successful." Do *not* exit from Oracle Universal Installer. Allow the Exit dialog box to remain open while you complete the next step.

You can stop the installation at any time during the Link or Setup phases, while "Configuration pending" is still displayed.

7. Unzip the patch into the new 11g ORACLE_HOME in \$ORACLE_HOME/search/patch/11.1.2.0.0. For example:

```
unzip p9740780_111200_Generic.zip -d  
/oracle/product/11.1.2.0.0/ses/seshome/search/patch/11.1.2.0.0
```

This directory will already contains other patches, which were copied there by the installer.

8. In the Exit dialog box, resume the installation by clicking **No** in response to "Are you sure you want to stop the installation and exit?" Do *not* exit from the installer.
9. Complete the upgrade and postupgrade steps in the *Oracle Secure Enterprise Search Installation and Upgrade Guide*.
10. Download and install patch 9625180, which is described in "[9625180: EQ_SYS AND EQ_TEST DB PASSWORDS EXPIRE AFTER 180 DAYS, SEARCH THROWS ORA-28001](#)" on page 11.
11. Review "[Upgrade Issues](#)" on page 4 for additional postupgrade steps.

Oracle Access Manager (OAM) Support

Release 11.1.2 supports Oracle Access Manager 10.1.4 or later to SSO-protect the Oracle SES default search application running on WebLogic Server. Crawling support for OAM-protected sources is planned for a future release of SES. For configuration instructions, see "Security in Oracle Secure Enterprise Search" in the Oracle SES Administration Guide on Oracle Technology Network. These instructions are not part of the documentation that is included with the product.

Changes to Supported Document Types

Oracle SES uses Oracle Text to convert binary documents to HTML. This section lists the changes to supported document types for this release.

Support is dropped in Oracle SES release 11.1.2 for these document types:

- Applix Word
- Applix Spreadsheet
- IBM DCA-RFT
- Folio Flat File
- Fujitsu Oasys
- Microsoft Visio XML Format

Support is added in Oracle SES release 11.1.2 for these document types:

- Microsoft Office 2007
- SUN StarOffice
- Haansoft Hangul Documents

For a complete list of supported document types, open the Oracle SES Administration tool from within the product. Customize a data source and select the **Document Types** subtab.

Desupported Features

This section contains features and functionality that is desupported for this release.

This section contains these topics:

- [Desupport of V1 Agent](#)
- [Deprecated Public Web Services](#)

Desupport of V1 Agent

The V1 Agent, called the Crawler Agent API in Oracle Ultra Search, is desupported in Oracle SES release 11.1.2. (The V1 Agent is the predecessor of the current crawler plug-in API in Oracle SES.)

Deprecated Public Web Services

The Oracle SES 10g Administration API is deprecated in this release (`searchadminctl` and the associated Web services). The Oracle SES release 11.1.2 Administration API replaces it. Therefore, the following public Web services are deprecated in this release:

- `oracle.search.admin.ws.client.SearchAdminClient`

The operations for this service include:

- `getEstimatedIndexFragmentation`
- `getSchedules`
- `getScheduleStatus`

- optimizeIndexNow
- startSchedule
- stopSchedule
- login
- logout
- oracle.search.admin.ws.client.Schedule
- oracle.search.admin.ws.client.ScheduleStatus

Known Issues and Open Bugs

This section contains the latest known issues and bugs for this release and contains these topics:

- [Installation Issues](#)
- [Upgrade Issues](#)
- [Linux Issues](#)
- [Open Bugs](#)

Note: For updated information on bugs, workarounds, and best practices, visit the Oracle SES Web site at:

<http://www.oracle.com/technology/products/oses/index.html>

Installation Issues

This section contains known issues for this release that affect installation.

8503413: RUNINSTALLER DOES NOT HONOR THE -IGNORESYSPREREQS FLAG

In interactive or silent mode, the `-ignoreSysPrereqs` flag is ignored and `runInstaller` performs the checks for system prerequisites.

Workaround: Execute `runInstaller` as in the following example:

```
./runInstaller -ignorePrereq -silent -debug -responseFile ~/upgrade.rsp
```

You only need to specify a response file if you use the `-responseFile` flag. The `ignoreSysPrereqs` flag skips the very first, initial system prerequisite check, which checks swap, memory, and color depth.

9295102: INSTALLATION FAILS WITH ORA-01031 WHEN PASSWORD IS MULTI-BYTE

The installation fails with an ORA-01031 error when multibyte characters are entered for the administrator password.

Workaround: Enter only ASCII characters for the password.

Upgrade Issues

This section lists known issues that affect the upgrade process.

8662950: VERSION OF IDENTITY PLUGIN IS 10.1.8.2.0 IN UPGRADE INSTANCE

In Oracle SES 11.1.2, when identity plug-in configuration is exported using the Oracle SES Administration API `searchadmin`, the release number (also referred to as *version* number) of a few identity plug-ins may be incorrect in the exported XML. Only the release number string of a few identity plug-ins are affected in the exported XML. This does not have any impact on the identity plug-in itself.

Workaround: The release number string will be displayed correctly in the Oracle SES Administration UI on importing the same XML into an Oracle SES 11.1.2 instance.

9261343: CDB PERFORMS FORCED CRAWL AFTER UPGRADE EVEN IF MODE IS INCREMENTAL

Content Database Source (CDB) executes a forced crawl even though the mode is set to `incremental` after the upgrade. This happens only during the first crawl performed immediately after upgrade (CDB indexes all documents even when mode is set as `incremental` and no changes are made on the repository side).

Workaround: There is no workaround.

9290561: MIGRATE_10184_SECURITY_DATA FAILED

Trusted entities that were originally created in Oracle SES 10.1.8.0 will cause an error during the last stage of the upgrade:

```
ORA-28817: PL/SQL function returned an error.  
ORA-06512: at "SYS.DBMS_CRYPTO_FFI", line 67  
ORA-06512: at "SYS.DBMS_CRYPTO", line 44  
ORA-06512: at "EQSYS.DEOBFUSCATE", line 10
```

Workaround: Delete all trusted entities before starting the upgrade. Use the Oracle SES Administration GUI to delete them, or take these steps:

1. Open SQL*Plus and connect as `eqsys`.
2. Run the `EQ_ADMIN.USE_INSTANCE` procedure:

```
EXECUTE eq_adm.use_instance(1);
```
3. Delete the trusted entities:

```
DELETE FROM eq$trusted_entity;
```
4. Save the changes:

```
COMMIT;
```
5. After the upgrade is complete, re-create the trusted entities.

9326121: POST 10G-11.1.2 UPG ZONE-TO-FIELD CONVERSION VERY SLOW FOR 15M+ ZONE SECTIONS

The postupgrade script `enable_ses1112_improve.sql` performs the zone-to-field conversion very slowly.

Workaround: There is no workaround.

9336801: POST UPGRADE SCRIPT REQUIRES LARGE AMOUNT OF DISK SPACE

Running postupgrade script `enable_ses1112_improve.sql` requires a large amount of disk space.

Workaround: Before upgrading Oracle SES from 10.1.8.4.0 to 11.1.2, download Oracle SES patch 9403944 to estimate the disk space required to run `enable_ses1112_improve.sql`.

9374665: ORA- ERRORS IN INSTALL LOG FOR 10.1.8.4 -> 11.1.2 UPGRD

Miscellaneous ORA errors appear in the install log after upgrading. These also appear in `seshome/cfgtoollogs/searchctl_install.log`. For example:

```
.... creating policy for markup
begin
*
ERROR at line 1:
ORA-20000: Oracle Text error:
DRG-10700: preference does not exist: eq_filter
ORA-06512: at "CTXSYS.DRUE", line 160
ORA-06512: at "CTXSYS.CTX_DDL", line 954
ORA-06512: at line 2
```

Workaround: These errors can be safely ignored.

BUG 9740780: UPGRADE TAKES VERY LONG TIME FOR LARGE INDEX

An upgrade appears to hang during processing of a very large `eq$cache` table on Linux and UNIX platforms.

Workaround: Install patch 9740780 during the upgrade, as described in ["Patch 9740780 Upgrade Instructions"](#) on page 2.

Linux Issues

This section lists general open bugs that affect the Linux platform.

6934015: IPv6 COMPATIBILITY

If your Linux operating system supports Internet Protocol version 6 (IPv6), then the `search stopall` command may not be able to connect to `localhost` using IPv4.

If your system supports IPv6, then you will see entries like the following example in the `/etc/hosts` file:

```
# special IPv6 addresses
::1          localhost ipv6-localhost ipv6-loopback

fe00::0      ipv6-localnet

ff00::0      ipv6-mcastprefix
ff02::1      ipv6-allnodes
ff02::2      ipv6-allrouters
ff02::3      ipv6-allhosts
```

Workaround: Comment out the IPv6 entries in `/etc/hosts`. For example:

```
# special IPv6 addresses
# ::1          localhost ipv6-localhost ipv6-loopback

# fe00::0      ipv6-localnet

# ff00::0      ipv6-mcastprefix
# ff02::1      ipv6-allnodes
# ff02::2      ipv6-allrouters
```

```
# ff02::3          ipv6-allhosts
```

Open Bugs

This section lists the general known bugs for this release.

6400299: RICH QUERY UI DOES NOT RENDER CORRECTLY FOR BIDIRECTIONAL LANGUAGES

The new Rich Query UI in this release does not support correct rendering for bidirectional languages (for example, Arabic and Hebrew).

Workaround: There is no workaround.

6860280: ISSUE WITH THE PARAMS OF THE TOPIC CLUSTERING METADATA EXTRACTION

Two query-time clustering parameters under Global Settings/Clustering Configuration do not work. Under Single Word Extraction: Minimum occurrence and Maximum number of words to extract do not work. Under Phrase Extraction: Minimum occurrence and Maximum number of phrases to extract do not work.

Workaround: There is no workaround.

7294661: CANNOT DOWNLOAD LHA.JAR

The LHA compression file format is supported in this release. To use this feature, you must manually download and deploy the libraries needed for supporting the file format.

Workaround: Go to the download location at <http://pnuts.org/doc/extensions.html>.

7456946: CHINESE DISPLAYED INCORRECTLY IN SUGGESTED CONTENT

Under certain scenarios, content with Chinese character set does not display correctly. See the bug for scenario and setup.

Workaround: There is no workaround.

7488403: GARBAGE CODE IS DISPLAYED WHEN CRAWL A PDF FILE FROM OTN

Characters in PDF documents with custom-encoded fonts do not index correctly. This is a known limitation in Oracle Text. Oracle Text, and therefore Oracle SES, cannot determine the countless ways that embedded fonts might have been customized. To see if this problem is the cause for display garbage in a PDF, in Acrobat Reader click **File** and **Properties**, and select the **Fonts** tab. You can verify that custom-encoded fonts are the cause of the display problem.

Workaround: Avoid using custom-encoded fonts when creating PDF documents. There is no workaround for viewing PDF documents that were created using custom-encoded fonts.

8659019: INTERNAL QUERY SYNTAX ERROR OCCURS WHEN SEARCHING FOR ATTRIBUTE TAG

Tag attribute search is not supported in Oracle SES 11.1.2 (in fresh installations and in upgraded installations). For example, `TAG:="info"` fails and generates an error:

```
Internal query syntax error
```

Workaround: Do not search on Tag attribute.

8982493: SES MIDTIER START/STOP WARNING MESSAGES (SECURITY NOTICE BEA-090898)

Security warnings appear when connecting to the node manager with WebLogic as the midtier. This is because WebLogic does not recognize the CA certificates from the midtier of the earlier Oracle SES release.

Workaround: Ignore the warning messages in the log. If you are concerned about the log indicating the warnings, remove the offending CA certificates from the truststore (or keystore). By default, WebLogic Server is configured with `DemoTrust.jks` and ignores the JDK CA certificate trust stores. Therefore, removing the offending CA certs from the JDK CA certs file should cause the warning to cease.

Alternatively, the following solution may be applied.

Set the `Dweblogic.StdoutSeverityLevel` system property to limit the number of warnings:

```
-Dweblogic.StdoutSeverityLevel=16
```

(Or substitute a lower number depending on how many messages you want to display, such as 8, 4, 2,1.)

9091672: CANNOT OBTAIN XACONNECTION, NO RESOURCES LEFT IN ENTERPRISESEARCHDS

When XA Connection is enabled and seems to not be efficiently utilized by Oracle SES, an exception is thrown while creating a connection for pool `EnterpriseSearchDS`. The listener refuses the connection with the following error:

ORA-12528, TNS:listener: All appropriate instances are blocking new connections

By default the min and max values of JDBC connection pool capacity are 20/100. In extreme scenarios (≥ 1500 concurrent users, ≥ 2 million docs / 50 GB content size), and especially where the hardware specification is less than 4 CPUs and 16 GB RAM, available resources will not be able to handle new connections. In this case, tuning the values to 200/200 can provide a solution.

Workaround: XA Connections will eventually get freed up when traffic subsides. If this is a recurring issue, then consider tuning the WebLogic midtier, JDBC Connection Pool max and min capacity values, for example, to something like 200/200. See *Oracle Database Performance Tuning Guide* for procedures.

9112217: IMPDP FAILED FOR PARTITIONED TGT, ORA-00059: MAX # OF DB_FILES EXCEEDED

If the deployment has a large number of DBFs under `ORADATA` that are pushing above the limits of the `db_files` value, then `impdp` of multi-source dump into the target Oracle SES instance fails.

Workaround: Update `init.ora` to increase the value of `db_files` to something like 10% more than the current DBF count.

9130467: PRE-11.1.2 UPGRADE PATCH HISTORY NOT PRESERVED FROM 10G

The `opatch lsinventory` does return all patch history carried over from earlier releases.

Workaround: In order to see the history for earlier instances, you must query each Oracle home and print or note the history. Additionally, after you have verified that the upgraded Oracle SES 11g instance is working, you may remove the Oracle SES 10g home. See *Oracle Secure Enterprise Search Installation and Upgrade Guide for Linux x86* for procedures.

9154080: SEARCHCTL RESTART TAKES APPROXIMATELY 2.5 MINUTES

The `searchctl` restart takes about 2.5 minutes to complete in this release. This is due to integration with WebLogic server, which provides substantially more services. (The previous Oracle SES release used OC4J.)

Workaround: There is no workaround.

9192452: PORTLET- REDIRECT PAGE SHOWS UNAVAILABLE CONTENT FOR FILE ETC SOURCE

The query user may not be logged in to the SES query application, even if both the OracleAS Portal instance and the SES instance are pointing to the same identity server (for example, the OID).

Workaround: Configure the OracleAS Portal instance and the SES query application to both utilize Single Sign-on (SSO), and configure the SES query application to require *login* for all content. Then, when the user is redirected to the display JSP for the search result, they will be logged in through SSO and will therefore authorize their access to the content.

9233383: DB DUMPED CORE AFTER HITTING ORA-600 [KDSGRP1] DURING LIGHT PUBLIC QUERY STRESS

This intermittent failure is observed during deployment, and happens only with the concurrent execution of low level read and write activities during a timeslice.

Workaround: There is no workaround.

9241318: MULTIBYTE NAMES NOT SUPPORTED BY WNA

Multibyte login name is not supported by WNA since the underlying WebLogic implementation for Kerberos authentication does not support such names.

Workaround: There is no workaround.

9246468: DEFAULT CACHE STORAGE WILL BE OS

The Mailing List data source uses storage on the operating system.

Workaround: All new Mailing List sources must use the same cache location as the default parent Mailing List source.

9268418: THE JDBC HEALTH STATUS IN ADMIN SERVER IS ALWAYS CRITICAL

After installing or upgrading to this release, when you log in to the WLS Administration console (`http://$HOST_NAME:$WLS_LISTEN_PORT/console`) and check the status of AdminServer, the status is shown as Critical instead of OK. Then when you check the detail health information of the server, you can see that the status of JDBC is Critical with reason "Connection Pool Name = null:null:mds-owsm, State = Unhealthy."

Workaround: Define the JDBC data source. Oracle Web Services Manager (OWSM) template requires a data source to be defined.

9280235: EXCEPTION BEING PRINTED WITH FULLY QUALIFIED PATH

The old stack used to throw `javax.xml.soap.SOAPException`. The new stack throws `javax.xml.rpc.soap.SOAPFaultException`, which is mapped back to `SOAPException` on the client side. When the exception message is printed, it starts with the fully qualified name of the exception class and not just the name of the exception class. For example, `javax.xml.SoapException` instead of just `SoapException`.

Workaround: To avoid this problem, the Oracle SES release 11.1.2 query WS client API should be run in JDK 1.6 or higher. This workaround is not confirmed on all systems.

9298458: ORACLE TEXT ERRORS IN UPGRADE LOG

This Oracle Text error appears twice in the installActions log:

```
ORA-20000: Oracle Text error:
DRG-10700: preference does not exist: eq_filter
```

Workaround: Ignore these errors. They do not affect the upgrade.

9361080: WEB-SERVICES BASED CONNECTOR PLUG-IN DEVELOPMENT

In order to develop any identity or authorization plug-in that is based on a Web service, the proxy stub classes that the plug-in uses to access the Web service should be added to commons-plugins-stubs.jar.

Workaround: Add the proxy stub classes that your plug-in uses to:

```
Oracle_Home/search/lib/plugins/commons-plugins-stubs.jar
```

9359467: WEBLOGIC SERVER - LOG ROTATION FAILS TO WORK AS EXPECTED

After setting `rotate_logfile` back to `true` and restarting the Oracle SES midtier, the logging *Rotation type* configuration in the WLS Admin Console still shows as NONE. The logfile rotation setting has not been reenabled.

Workaround: A partial workaround for this problem is as follows.

1. Go to the WLS Console at `http://host:port/console`.
2. Select **Servers/AdminServer** and click the **Logging** tab.
3. On the Logging tab, click **Lock & Edit** and make the appropriate configuration changes and click **Save**. (You must save your changes before activating them in the next step.)
4. Click **Activate Changes**.
5. Restart the Oracle SES midtier.

The configuration changes made in the WLS Console will take effect and will stay in effect even after further Oracle SES midtier restarts.

9369154: EXCEPTION WHEN OPEN QUERY PAGE OF SSO INSTANCE

Some of the required SSO parameters are not configured by default in the query plan.

Workaround: When enabling SSO using the query application deployment plan, which is located at `$ORACLE_HOME/search/tools/weblogic/deploy/plans/QueryPlan.xml`, in addition to the `sso_enabled` flag, the following parameters must be configured:

```
<variable>
  <name>sso_vendor_name</name>
  <value>osso</value>
  <description>The SSO vendor name.</description>
</variable>

<variable>
  <name>sso_user_guid_header</name>
  <value>Osso-User-Guid</value>
  <description>The HTTP header name that the SSO server uses to pass the
```

user GUID to SES. The value in the header should match the value of the users canonical attribute for the active identity plugin.</description>
</variable>

<variable>
 <name>sso_username_header</name>
 <value>REMOTE_USER</value>
 <description>The HTTP header name that the SSO server uses to pass the search username to SES. The value in the header should match the value of the users authentication attribute for the active identity plugin. Specify REMOTE_USER to use getRemoteUser in the HTTP request to retrieve the username.</description>
</variable>

9589783: REGISTERING SES PORTLET FAILS ON PORTAL 10.1.4.2.0 + PSE PATCH 7560661

Registering an SES Portlet on Portal 10.1.4.2 against an SES 11.1.2 end point running on Solaris SPARC (64-Bit) or IBM AIX, results in the following error message:

An error occurred during the call to the WSRP Provider: Java stack trace from root exception:

java.rmi.ServerException: java.lang.RuntimeException: Internal Error

Workaround: There is no workaround.

9625180: EQ_SYS AND EQ_TEST DB PASSWORDS EXPIRE AFTER 180 DAYS, SEARCH THROWS ORA-28001

Search functionality breaks after 180 days of use.

Workaround: Install patch 9625180.

Documentation Corrections and Additions

This section contains corrections to the Oracle SES documentation set.

Oracle Secure Enterprise Search Installation and Upgrade Guide

Certified Browsers

The list of certified browsers is incorrect. The default Search Application and the Administration GUI are certified on the following browsers:

- Firefox 3.x
- Internet Explorer 7.x, 8.x
- Safari 4.x

Deinstallation

"Deinstallation Tasks" should include this sentence: Deinstallation does not remove all directories in Oracle base, because they may be shared by other Oracle homes.

Oracle Secure Enterprise Search Administrator's Guide

Installing ossoiap.jar for Single Sign-on Security

In "Configuring OracleAS and Oracle SES for Single Sign-on Security" in Chapter 11, "Security in Oracle Secure Enterprise Search," the `ossoiap.jar` referenced in step 1 is available in Oracle HTTP Server 11g only. If you are configuring Oracle Single Sign-On using Oracle HTTP Server 10.1.3, then install Oracle HTTP Server 11g separately to obtain this JAR file.

Importing SSL Certificates into JVM

"Managing the Keystore" in Chapter 11 should include this information: For connectors that interact with external SSL-enabled repositories at crawl time and query time, you must import the SSL certificate into the keystore of the Oracle SES crawler Java Virtual Machine (JVM) and the mid-tier JVM. The keystore in the crawler's JVM is used at crawl time, and the keystore in the mid-tier JVM is used at query time to build the security filter.

Following are the paths to the two JREs into which to import the SSL certificate:

- `ORACLE_HOME/jdk/jre`
- `ORACLE_BASE/jrockit_160_14_R27.6.5-32/jre`

Configuring OAM SSO

The following step should be added to "Configuring QueryPlan.xml in Oracle SES" in Chapter 11:

For changes made to this file to take effect on Linux, run the `deployer.sh` file:

```
sh $ORACLE_HOME/search/tools/weblogic/deploy/deployer.sh -serverURL
t3://host:port/ -user weblogic -password password -name search_query -plan
$ORACLE_HOME/search/tools/weblogic/deploy/plans/QueryPlan.xml -process redeploy
```

Where:

host is the host name, and *port* is the WebLogic service port. This is the same port that you use to open the Administration GUI. *password* is the password for `eqsys`.

For example, if you install Oracle SES on the host `exampleServer` and port `7777`, and the Oracle SES administration password is `welcome1`, then issue the following command:

```
sh ./deployer.sh -serverURL t3://example:7777/ -user weblogic -password welcome1
-name search_query -plan $ORACLE_
HOME/search/tools/weblogic/deploy/plans/QueryPlan.xml -process redeploy
```

Shutting Down Oracle SES

"Using Backup and Recovery" in Chapter 12 should include this information: The `searchctl stopall` command does not close active background tasks before initiating an immediate shutdown. This may raise internal errors, which you can ignore.

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