

Oracle® Audit Vault

Release Notes

10g Release 2 (10.2.2.0.0)

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These release notes describe issues and workarounds for Oracle Audit Vault 10g Release 2 (10.2.2.0.0).

For the latest release notes, and to view other Audit Vault documentation, see the Oracle Documentation page on the Oracle Technology Network. The URL is as follows:

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

This document contains the following sections:

- [About Oracle Audit Vault](#)
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1 About Oracle Audit Vault

Government regulations require businesses to provide security for data on customers, employees, and partners. Databases, applications, and other systems produce vast quantities of data. Auditors must analyze this data in a timely fashion across geographically dispersed and heterogeneous systems. Business users must consolidate data across all systems and monitor the data for a holistic view of enterprise data access. The consolidation process must use a single audit data warehouse that is secure, scalable, reliable, and highly available.

Oracle Audit Vault is an enterprise-wide auditing solution that monitors corporate data and provides alerts and reports for security auditing and compliance. Oracle Audit Vault collects audit data and critical events from databases and consolidates the data in a centralized and secure audit warehouse.

Oracle Audit Vault solves security and audit problems by performing the following functions:

- Consolidating audit information from multiple systems across the enterprise
- Detecting changes to data and generating reports and alerts
- Protecting audit data from modification

2 Installation and Uninstallation Issues

For information on platform support, licensing, and installation, read the following documents:

- *Oracle Audit Vault Server Installation Guide for Linux x86*
- *Oracle Audit Vault Server Installation Guide for Solaris Operating System (SPARC 64-Bit)*
- *Oracle Audit Vault Server Installation Guide for AIX 5L Based Systems (64-Bit)*
- *Oracle Audit Vault Server Installation Guide for HP-UX PA-RISC (64-Bit)*
- *Oracle Audit Vault Server Installation Guide for Linux x86-64*
- *Oracle Audit Vault Agent Installation Guide*
- *Oracle Audit Vault License Information*

The rest of this section describes known issues and workarounds pertaining to installation and uninstallation. The following topics are discussed:

- [The Silent Installer Does Not Issue an Error When the SID Is Omitted](#)
- [The Silent Installer for the Agent Does Not Validate Against the Server](#)
- [Silent Installation May Not Report on a Failed dvca Command](#)
- [Silent Installation Proceeds Even When Variables Are Not Populated](#)
- [Silent Installation for the Agent Does Not Report Incorrect Parameters](#)
- [The Required Storage Is Not Updated When Adding to the ASM Diskgroup](#)
- [The -record Option Is Not Supported](#)
- [The Same sysdba Password Is Required for Audit Vault and ASM](#)
- [An Error Occurs After Selecting a Non-Empty Oracle Home for Agent Installation](#)
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- [After a RAC Installation, an Error Is Issued During Creation of the Database](#)
- [In a RAC Environment, Preparatory Steps Are Required Before Installing Additional Nodes](#)
- [In a RAC Environment, the dvca -action optionrac Command on a Remote Node Returns an Error](#)
- [Database Is in an UNKNOWN State after Rebooting Cluster Nodes](#)
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2.1 The Silent Installer Does Not Issue an Error When the SID Is Omitted

When performing silent installation for the Audit Vault server, if you do not provide a value for the `s_dbSid` option, the SID defaults to `av`.

The workaround is to ensure that you have set the correct value for the `s_dbSid` option in the response file before running the silent installation.

2.2 The Silent Installer for the Agent Does Not Validate Against the Server

When performing a silent installation of the Audit Vault agent, the installer does not connect to the specified Audit Vault server and check the user-provided information. This type of validation is only available when using one-click installation.

The following are workarounds:

- Ensure that you are installing the agent on the computer that you specified when issuing the `avca add_agent` command on the server.
- Manually check the user-provided information in the response file for the silent installation.
- Verify that the Audit Vault database is up.

2.3 Silent Installation May Not Report on a Failed `dvca` Command

When running a silent installation, the `dvca` command may fail to run. However, the silent installer will report that it ran successfully.

The workaround for this issue is to check the installation logs after running silent installation. The log files are located as follows:

```
ORACLE_HOME/cfgtoollogs/oui/installActionsdate_time.log
```

2.4 Silent Installation Proceeds Even When Variables Are Not Populated

When you run the silent installation program, as follows, you may receive an error:

```
./runInstaller -silent -responseFile <absolute path to av.rsp file>
```

If you have not properly supplied all required variables in the silent installation file, the following error appears:

```
'SEVERE:Abnormal program termination. An internal error has occurred.  
Please provide the following files to Oracle Support :'
```

If you receive this error, check the silent installation response file and ensure that you have provided proper input for all required variables.

2.5 Silent Installation for the Agent Does Not Report Incorrect Parameters

On Windows, silent installation of the Audit Vault agent can report that the `avca` command succeeded, even if you supplied incorrect parameters in the response file.

You should check the installation logs after completing silent installation. Errors are reported correctly in the log file.

2.6 The Required Storage Is Not Updated When Adding to the ASM Diskgroup

When adding disks to an existing Automatic Storage Management (ASM) disk group during Audit Vault installation, the amount of required storage space may not be updated.

The workaround is to click the **Change Discovery Path** button and update the discovery path before adding the disks.

2.7 The `-record` Option Is Not Supported

In this release, the installer does not support the `-record` option.

2.8 The Same `sysdba` Password Is Required for Audit Vault and ASM

After installing Automatic Storage Management (ASM) and Oracle Audit Vault, you may receive the following error when connecting to ASM:

```
"Supplied ASM SYSDBA password is invalid"
```

The workaround is to provide the same `sysdba` password for both ASM and Audit Vault.

2.9 An Error Occurs After Selecting a Non-Empty Oracle Home for Agent Installation

When installing an Audit Vault agent, if you select a non-empty Oracle Home directory, you receive the following error:

```
Recommendation: Choose a new Oracle Home or a home that contains Oracle Database 10g Client Release 1 software or a home that contains Oracle Database 10g Release 2 software for installing this product.
```

This message is applicable to the Oracle 10g Release 1 client, not the Audit Vault agent. You should install the Audit Vault agent in a new home directory, or in an existing Oracle Audit Vault home directory.

2.10 The "One-Click" Installer Does Not Start Up

On Windows, if you run `setup.exe` using additional options, for example, `-record`, or if the system is running Cluster Ready Services (CRS), the one-click installation program may not start up.

The workaround is to add the following option when invoking `setup.exe` with additional options:

```
-oneclick
```

2.11 After a RAC Installation, Start Oracle Enterprise Manager Database Control

After you finish installing the Audit Vault Server in a RAC environment, Oracle Enterprise Manager Database Control may be down. If it is down, start it using the following commands. If you have an Oracle RAC environment, run these commands on all nodes:

```
$ORACLE_HOME/bin/emctl stop dbconsole
$ORACLE_HOME/bin/emctl start dbconsole
$ORACLE_HOME/bin/avctl start dbconsole
```

2.12 After a RAC Installation, an Error Is Issued During Creation of the Database

After installing Audit Vault, the following error appears when creating a RAC database using the dbca command:

```
Failed to retrieve network listener Resources
```

The workaround for this error is to click **yes** on the error screen and continue the installation.

2.13 In a RAC Environment, Preparatory Steps Are Required Before Installing Additional Nodes

You can receive an SPFILE error when running the dvca command on a remote node after installation in a RAC environment.

To avoid this error, perform the following steps after installing Audit Vault on a single node in a RAC environment, and before adding other nodes using the addnode script on the local node:

1. Stop the database, as follows:

```
srvctl stop database -d db_name -c "sys/sys_passwd as sysdba"
```

Where *db_name* is the name of the database you are stopping, *sys* is the ID that was generated during the database installation, and *sys_passwd* is the corresponding password.

2. Start the database with the NOMOUNT option, as follows:

```
$ sqlplus /NOLOG
SQL> CONNECT SYS/SYS_passwd AS SYSDBA
SQL> STARTUP NOMOUNT
```

3. Create an SPFILE from PFILE, as follows:

```
SQL> CREATE SPFILE='SHARED_LOCATION/SPFILE.ORA'
FROM 'PFILE=pfile_location/init.ora'
```

Where *pfile_location* is usually *ORACLE_HOME/admin/db_name/pfile* for Optimal Flexible Architecture-compliant databases.

4. Shut down the database:

```
SQL> SHUTDOWN IMMEDIATE
SQL> EXIT
```

5. Clear the contents of the PFILE located at *ORACLE_HOME/dbs/initsid.ora* and set the value of SPFILE to *SHARED_LOCATION/SPFILE.ORA*.
6. Restart the database.

2.14 In a RAC Environment, an SPFILE Error Is Issued During Installation

When installing Audit Vault on a single node in a RAC environment, the following messages are written to the `dvca_install.log` file:

```
Error executing task INIT_AUDIT_SYS_OPERATIONS:java.sql.SQLException:
ORA-32001: write to SPFILE requested but no SPFILE specified at startup
Error executing task INIT_REMOTE_OS_AUTHENT:java.sql.SQLException: ORA-32001:
write to SPFILE requested but no SPFILE specified at startup
Error executing task INIT_REMOTE_OS_ROLES:java.sql.SQLException: ORA-32001:
write to SPFILE requested but no SPFILE specified at startup
Error executing task INIT_OS_ROLES:java.sql.SQLException: ORA-32001: write to
SPFILE requested but no SPFILE specified at startup
Error executing task INIT_SQL92_SECURITY:java.sql.SQLException: ORA-32001:
write to SPFILE requested but no SPFILE specified at startup
Error executing task INIT_OS_AUTHENT_PREFIX:java.sql.SQLException: ORA-32001:
write to SPFILE requested but no SPFILE specified at startup
@ Error executing task INIT_REMOTE_LOGIN_PASSWORDFILE:java.sql.SQLException:
ORA-32001: write to SPFILE requested but no SPFILE specified at startup
Error executing task INIT_RECYCLEBIN:java.sql.SQLException: ORA-32001: write
to SPFILE requested but no SPFILE specified at startup
```

You can ignore the errors, and after the installation is complete, edit the pfile using the following information and restart the database:

```
audit_sys_operations=TRUE
remote_os_authent=FALSE
remote_os_roles=FALSE
os_roles=FALSE
sql92_security=TRUE
os_authent_prefix=''
remote_login_passwordfile=EXCLUSIVE
recyclebin=OFF
```

The pfile location is usually `ORACLE_HOME/admin/db_name/pfile` for Optimal Flexible Architecture-compliant databases.

2.15 In a RAC Environment, the `dvca -action optionrac` Command on a Remote Node Returns an Error

When Audit Vault Server is installed on a single node in an Oracle RAC environment, after performing the `addnode` script from the local node to add a second node, then adding the Listener and adding the instance on the remote node, and executing `dvca -action optionrac` command, returns the following error message:

```
ORA-32001: write SPFILE requested but no SPFILE specified at startup
```

This problem is encountered in the case of CFS storage type.

The workaround to this problem is to perform the following operations before executing the `addnode` script on the local node:

1. Stop the database.

```
srvctl stop database -d <db_name> -c "sys/<sys passwd> as sysdba"
```

2. Start the database with the `NOMOUNT` option:

```

$ sqlplus /NOLOG
SQL> CONNECT SYS/SYS_password AS SYSDBA
SQL> STARTUP NOMOUNT

```

3. Create a SPFILE from a PFILE by entering the following command where `pfile_location` is usually `$ORACLE_HOME/admin/db_name/pfile` for Optimal Flexible Architecture compliant database:

```

SQL> CREATE SPFILE='SHARED_LOCATION/SPFILE.ORA'
FROM 'PFILE=pfile_location/init.ora'

```

4. Shut down the database:

```

SQL> SHUTDOWN IMMEDIATE
SQL> EXIT

```

5. Clear the contents of PFILE located at `$ORACLE_HOME/dbs/initsid.ora` and set the value of SPFILE as `SHARED_LOCATION/SPFILE.ORA`.

6. Restart the database.

2.16 Database Is in an UNKNOWN State after Rebooting Cluster Nodes

In an Audit Vault in an Oracle RAC environment, if you reboot the cluster nodes after installation the database can revert to an UNKNOWN status. For example, if you enter the following command, the application state is listed as UNKNOWN:

```
crs_stat -t
```

Name	Type	Target	State	Host
ora...v1.inst	application	ONLINE	UNKNOWN	staka09
ora...v2.inst	application	ONLINE	UNKNOWN	staka10
ora.av.db	application	ONLINE	OFFLINE	
ora...09.lsnr	application	ONLINE	ONLINE	staka09
ora...a09.gsd	application	ONLINE	ONLINE	staka09

To return the database to an ONLINE state, restart the database after rebooting the nodes, as follows:*

```

$ORACLE_HOME/bin/srvctl stop database -d db_name -c "sys/<sys passwd> as
sysdba"
$ORACLE_HOME/bin/srvctl start database -d db_name -c "sys/<sys passwd> as
sysdba"

```

Where `db_name` is the name of the database, `sys` is the ID that was generated during database installation, and `sys passwd` is the corresponding password.

2.17 Manual Cleanup Is Required After Uninstalling the Audit Vault Database

After uninstalling the Audit Vault database, the configuration files that Audit Vault created are not removed.

You must manually delete the Audit Vault home directory after uninstalling the Audit Vault database.

3 General Administration and Configuration Issues

This section discusses administration and configuration issues and workarounds.

This section discusses the following topics:

- [Some Agent and Alert Configuration Messages Are Inaccurate or Unclear](#)
- [Some Translated Error Messages Are Displayed in English](#)
- [Garbled Multibyte User Name Is Displayed on the Login Page](#)
- [You Cannot Log In After a Timeout](#)
- [Inconsistent Behavior When Deleting an Alert](#)
- [Changing the Focus of an Alert Can Cause the Administration Console to Crash](#)
- [Policy Names Cannot Contain Special Characters](#)
- [500 Error Occurs if You Specify An Invalid Warehouse Retention Time](#)
- [Warehouse Configuration Buttons Are Missing](#)
- [Subpools for Streams Can Become Too Large](#)

3.1 Some Agent and Alert Configuration Messages Are Inaccurate or Unclear

When configuring Audit Vault, you can encounter a few error messages that require clarification.

The following is a list of errors that you may find misleading:

- When you add an agent, you can receive the message, "Agent added successfully" even if the agent has not been added to av\$avagent.
- When you edit an agent, you can receive the error, "Please provide the agentname" even if you have supplied the agent name.

The same message can appear when you click **OK** on this page.

- When enabling an alert, you can receive the following message:
"Enabling Alerts Failed"

This message should state, "Enabling Alerts Failed. Alerts are already enabled."

A similar problem occurs when disabling an alert.

3.2 Some Translated Error Messages Are Displayed in English

Some error messages are displayed in English even if the rest of the Audit Vault product has been localized. For example, if you do the following in a localized version of Audit Vault you may see an English error:

1. Log in to the administrative console as an administrator.
2. Click the **Agent** sub-tab.
3. Click **Start** for an already-started agent.

3.3 Garbled Multibyte User Name Is Displayed on the Login Page

If you enter an invalid multibyte user name on the login page for the Audit Vault administration console, an error is displayed and the user name is displayed in a garbled manner.

For example, this problem occurs if you do the following:

1. Set the browser to simplified Chinese.
2. Access the Audit Vault administration console.
3. On the login page, enter an invalid multibyte user name and click **Login**.

3.4 You Cannot Log In After a Timeout

When working in the administrative console, after an inactivity timeout you must supply your login credentials. However, when you re-enter your credentials, the administrative console issues an error.

3.5 Inconsistent Behavior When Deleting an Alert

When you click the trash icon in the Remove column to remove an alert, the alert is removed immediately.

In other sections of the Audit Vault administration console, a confirmation page appears.

3.6 Changing the Focus of an Alert Can Cause the Administration Console to Crash

When configuring an alert, the administration console can exit unexpectedly. For example, this can happen when you do the following:

1. From the administration console, select **Audit Policy**, then **Alerts**.
2. Change the default focus from **Basic** to **Advanced**, then back to **Basic**.
3. Click **OK**.

3.7 Policy Names Cannot Contain Special Characters

Policy names can only have alphanumeric characters. If you use a special character, for example a hyphen ("-") in the name, the Audit Vault database truncates everything that follows the special character.

For example, if you do the following, the policy name "Test-123" is truncated to "Test":

1. From the Dashboard, click the **Audit Policy** tab.
2. If required, click **Audit Settings** in the upper left.
3. Select the Audit Source where you want to define settings.
4. Go to the **Overview** page and create a policy named Test-123.

3.8 500 Error Occurs if You Specify An Invalid Warehouse Retention Time

If you provide an illegal retention time for the data warehouse, you can receive a "500 Internal Server Error."

For example, this problem can occur if you do the following:

1. Install an Audit Vault server and agent.
2. Set up and start a source and REDO, DB, and OS Collectors for a database.
3. Log in as an Audit Vault administrator.
4. Go to **Configuration**, then **Warehouse**.
5. Set an invalid retention time, for example, specify 15 in the **Month** field.
6. Click **Reply**.

An error similar to the following appears:

```
500 Internal Server Error
java.lang.NumberFormatException
at oracle.sql.INTERVALYM.toBytes(INTERVALYM.java:173)
at oracle.sql.INTERVALYM.<init>(INTERVALYM.java:108)
at oracle.sysman.emo.avt.configuration.AVWarehouseConfigViewObject.
getIntervalString(AVWarehouseConfigViewObject.java:485)
at oracle.sysman.emo.avt.facade.AVWarehouseConfigService.setDuration
(AVWarehouseConfigService.java:156)
at oracle.sysman.db.adm.avt.AVWarehouseConfigController.handleEvent
(AVWarehouseConfigController.java:189)
at oracle.sysman.emSDK.svlt.PageHandler.handleRequest(PageHandler.
java:376)
at oracle.sysman.db.adm.RootController.handleRequest(RootController.
java:170)
at oracle.sysman.db.adm.AVControllerResolver.handleRequest
(AVControllerResolver.java:125)
...
```

3.9 Warehouse Configuration Buttons Are Missing

In the administration console pages for Warehouse configuration, buttons are missing for **Load Warehouse** and **Purge Warehouse**.

The workaround for this is to use the command line for these functions, as follows:

```
avctl load_warehouse -startdate start_date -numofdays number_of_days
[-dateformat date_format] [-wait]
```

```
avctl purge_warehouse -startdate start_date -numofdays number_of_days
[-dateformat date_format] [-wait]
```

See the *Oracle Audit Vault Administrator's Guide* for details.

3.10 Subpools for Streams Can Become Too Large

The REDO collector uses Oracle Streams technology to retrieve logical change records (LCRs) from the REDO logs. On the source database, a Streams capture process uses LogMiner to extract new LCRs from the REDO logs based on capture rules that are defined by the user.

If you configure initialization parameters for a streams pool with subpool durations for `instance`, `session`, `cursor`, and `execution`, you can receive 403 errors.

The workaround is to combine the durations into one pool using the following initialization parameter in `init.ora`:

```
_enable_shared_pool_durations = false
```

The disadvantage of this parameter is that the streams pool will never shrink.

Another possible solution is to find what allocations made a particular duration subpool too large and change their durations, for example, from `session` to `cursor` or `execution`.

4 Source Configuration Issues

This section discusses source issues that you may encounter with Audit Vault. It also provides the workarounds for these issues.

This section discusses the following topics:

- [Some Source Configuration Messages Are Inaccurate or Unclear](#)
- [Double-Byte Source Names Can Be Garbled in Search Fields](#)
- [The Administrative Console Does Not Show Agent-to-Source Mapping](#)

4.1 Some Source Configuration Messages Are Inaccurate or Unclear

When configuring Audit Vault, you can encounter a few error messages that require clarification.

The following is a list of errors that you may find unhelpful:

- After adding a source, you can receive a message stating that the add action has failed, however, after a short delay the source is added and appears in the user interface.
- If you go to the **Configuration** tab, then **Audit Source**, then **Source**, then click **View**, the port number is shown as a floating number (8235.0).
It should be a whole number.
- If you go to the **Configuration** tab, then **Audit Source**, then **Source**, then click **Edit**, then click **OK**, an error appears even if no values have been changed.

4.2 Double-Byte Source Names Can Be Garbled in Search Fields

When conducting a search for a source in an environment that uses a double-byte character set, a search field can be pre-populated with garbled data.

For example, if you do the following, this problem can occur.

1. Log in as an auditor using `zh_CN` as the locale in the browser.
2. Go to the administrative console.
3. Click Audit Policy.
4. Select a source with a multi-byte name and click **Retrieve from Source**.

5. Click the link for the retrieved source.
6. Click **FGA**, then **Create**.
7. Click the icon next to the **Object** field.
8. In the **Search and Select** page, the multi-byte source name in the input field is garbled.

The workaround is to manually enter the name in the input field.

4.3 The Administrative Console Does Not Show Agent-to-Source Mapping

When adding a source in the administration console, no agent mappings are displayed. To work around this issue, use the command line to add the source, for example:

```
avorcldb add_source -src lnxserver:2222:source1db.domain.com -srcusr  
srcuser1/<pwd> -avsrcusr avsrcuser1 -desc 'HR Database' -agentname agent1
```

The `-agentname` parameter maps the source to the agent.

5 Collector Configuration Issues

This section contains issues regarding Collector configuration for Oracle Audit Vault.

This section discusses the following topics:

- [Collector Startup Can Be Slow](#)
- [Some Collector Configuration Messages Are Inaccurate or Unclear](#)
- [When Starting a Collector, Multibyte Error Messages Are Not Displayed Properly](#)
- [Traces Can Cause a REDO Collector to Crash](#)

5.1 Collector Startup Can Be Slow

After several restarts, a Collector can take a while to start up.

The workaround is to wait until startup is complete. Operations should be normal after the Collector has finished starting up.

5.2 Some Collector Configuration Messages Are Inaccurate or Unclear

When configuring a Collector, you can encounter a few error messages that require clarification.

The following is a list of errors that you may find unhelpful:

- After adding a Collector, you can receive a message stating that the add action has failed, however, after a short delay the Collector is added and appears in the user interface.
- When you edit a Collector, the edited information may not appear in the user interface.

- When you delete a Collector, you can receive a message stating that the delete action failed, even if the Collector has been deleted.

5.3 When Starting a Collector, Multibyte Error Messages Are Not Displayed Properly

If there is an error when starting up a Collector on a browser that is configured for a multibyte language, the error message is displayed partially in English and partially in a garbled format in the target language, as follows:

```
"Failed to initialize Audit Service, ORA-28150: garbled multibyte text"
```

For example, this can occur if you do the following:

1. Set the browser to simplified Chinese.
2. Log in to the Audit Vault administrative console as an administrator.
3. Select **Management**, then **Collector**.
4. Select a Collector and click **Start**.

5.4 The start_collector Command Returns Garbled Multibyte Names

When you configure multibyte source and collector names, you can receive an error when you start the Collector, as follows:

1. Add a multibyte source name using the `avorcldb add_source` command.
2. Add a multibyte collector name using the `avorcldb add_collector` command.
3. Run `avorcldb setup` using the multibyte source name.
4. Start the Collector as follows:

```
avctl start_collector -collname from_step_2 -srcname from_step_1
```

You will receive an "Error executing task start_collector" message with garbled multibyte source and Collector names.

The workaround is as follows:

1. On the host for the agent, set the `LANG` and `NLS_LANG` environment variables to the character set for your multibyte language.

For example, you can configure Simplified Chinese as follows:

```
LANG=zh_CN.gbk  
NLS_LANG=.zhs16gbk
```

To support multiple languages, set the environment variables to use Unicode, as follows:

```
LANG=zh_CN.utf-8  
NLS_LANG=.al32utf8
```

2. Restart OC4J.

5.5 Traces Can Cause a REDO Collector to Crash

When you turn on a trace for a REDO Collector, the Collector can crash.

6 Documentation Accessibility

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Oracle Audit Vault Release Notes, 10g Release 2 (10.2.2.0.0) for Windows (32-bit) and Linux x86
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