Oracle® Database Vault

Release Notes

10*g* Release 2 (10.2.0.5) for Microsoft Windows Itanium (64-Bit)

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These Release Notes describe issues you may encounter with Oracle Database Vault 10*g* Release 2 (10.2.0.5). The Oracle Database Vault installation is covered in detail in *Oracle Database Vault Installation Guide for Microsoft Windows Itanium (64-Bit)*.

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

http://www.oracle.com/technetwork/indexes/documentation/index.html

This document contains the following sections:

- Installation Issues and Recommendations
- Usage Issues and Recommendations
- Frequently Asked Questions on Installation
- Miscellaneous Notes
- Documentation Accessibility

1 Installation Issues and Recommendations

This section describes the known issues pertaining to installation. It also provides the workarounds that you can use.

1.1 Oracle Database Vault Administrator Web Application Fails to Start

Bug 9587181

The Oracle Database Vault Administrator (DVA) link does not work after an upgrade from Oracle Database Vault 10.2.0.4 to 10.2.0.5.

Bug 5617850

DVCA fails to deploy the Oracle Database Vault Administrator application during the `DEPLOY_DVA` step. DVCA shows the following error:

```
Error executing task
DEPLOY_DVA:java.io.FileNotFoundException:
D:\ORACLE\PRODUCT\10.2.0\DB_1\oc4j\j2ee\OC4J_DBConsole_wptgjqa07_
ORCL\config\server.xml (Specified PATH not found)
```

You can use the following workaround steps for both Bug 9587181 and Bug 5617850:

1. Set the `ORACLE_HOME`, `ORACLE_SID`, and `PATH` environment variables.

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2. Stop Oracle Enterprise Manager Database Control process. Use the following command:

```
C:\> ORACLE_HOME\bin\emctl stop dbconsole
```

3. Edit the file, `ORACLE_HOME\oc4j\j2ee\OC4J_DBConsole_hostname_SID\config\server.xml`. Enter the following line just before the last line that reads, `</application-server>`:

```
<application name="dva" path="ORACLE_HOME\dv\jlib\dva_webapp.ear"
auto-start="true" />
```

Here, `ORACLE_HOME` needs to be replaced by the path to your Oracle home directory.

For example:

```
<application name="dva" path="C:\oracle\product\10.2.0\db1\dv\jlib\dva_
webapp.ear" auto-start="true" />
```

4. Edit the file, `ORACLE_HOME\oc4j\j2ee\OC4J_DBConsole_hostname_SID\config\http-web-site.xml`. Enter the following line just above the last line that reads, `</web-site>`:

```
<web-app application="dva" name="dva_webapp" root="/dva" />
```

5. Start Oracle Enterprise Manager Database Control process. Use the following command:

```
C:\> ORACLE_HOME\bin\emctl start dbconsole
```

1.2 Cannot Install Oracle Database Vault in a Data Guard Environment

Bug 5577503

The Oracle Database Vault installer fails to install Oracle Database Vault in an existing physical standby database.

You can create a new physical standby database by using the following steps:

1. Install Oracle Database Vault on the primary database.

2. Create a physical standby database using a hot backup of the primary database. This backup should include the Oracle home.

3. Set up communications between the primary and the physical standby database. Redo logs communicate changes from the primary database to the standby database.

> **See Also:** *Oracle Data Guard Concepts and Administration* for more information about creating a physical standby database

1.3 Oracle Enterprise Manager Does Not Start Automatically

Bug 5623404

Oracle Enterprise Manager does not start automatically after installing Oracle Database Vault.

The workaround is to restart the process manually using the following commands:

```
C:\> ORACLE_HOME\bin\emctl stop dbconsole
C:\> ORACLE_HOME\bin\emctl start dbconsole
```

1.4 Database Instance and Listener Do Not Start Automatically on the Remote Node After Oracle Database Vault Installation

Bug 6630191

After you install Oracle Database Vault, the database instances and listeners on the remote nodes do not start automatically. You must start these manually.

This is expected behavior. The DVCA utility configures the local node, and starts the database instance and listener processes on the local node. You must start these processes manually on each of the remote nodes.

1.5 Cloned Oracle Database Vault Home Contains Invalid Objects

Bug 6658315 and 6729227

Invalid objects are seen in a cloned Oracle Database Vault instance. Invalid objects are also seen when you install Oracle Database Vault over a custom database.

The following steps are used to create a cloned Oracle Database Vault instance:

1. Install Oracle Database Vault 10*g* Release 2 (10.2.0.5) in the first Oracle home.

2. Clone the first instance to create a second Oracle home.

3. Run Net Configuration Assistant (NetCA) and Database Configuration Assistant (DBCA) to configure a listener and database for the cloned instance.

4. Run DBCA again to configure Oracle Label Security (OLS) for the cloned instance.

5. Run Oracle Database Vault Configuration Assistant (DVCA) as follows:

    ```
    C:\> ORACLE_HOME\bin\dvca -action option -oh oracle_home
    -jdbc_str jdbc_connection_string -sys_passwd SYS_password -owner_account
    DV_owner_account_name -owner_passwd DV_owner_account_password
    -acctmgr_account DV_account_manager_account_name -acctmgr_passwd
    DV_account_manager_password -logfile .\dvca.log -nodecrypt
    ```

The following SQL statement shows that the cloned Oracle Database Vault instance contains invalid objects:

```
SQL> select count(*) from all_objects where status = 'INVALID';

  COUNT(*)
----------
        45
```

The workaround is to run the utlrp.sql script. This script recompiles all PL/SQL modules that might be in an invalid state, including packages, procedures, and types. Use the following commands to run the utlrp.sql script:

```
sqlplus SYS "AS SYSDBA"
Enter password:
SQL> @?\rdbms\admin\utlrp.sql
```

1.6 Error Log Created After Oracle Database Vault Installation

Bug 6692032

After you install Oracle Database Vault for an Oracle database that has Oracle Enterprise Manager configured, an error file containing the following error is generated:

```
load(error):java.sql.SQLException: ORA-12541: TNS:no listener
```

You can safely ignore this error.

1.7 Additional Steps Required When Cloning an Oracle Real Application Clusters Node

After creating a cloned Oracle RAC node, and before running DVCA (`dvca -action option`) manually on the cloned node, you must set the correct values for the `ORACLE_HOME` and `ORACLE_SID` variables in the `ORACLE_HOME`\bin\dvca.bat file on the cloned node.

> **See Also:** *Oracle Database Vault Installation Guide for Microsoft Windows Itanium (64-Bit)* for more information about running the `dvca -action option` command

If you are using the `lockout` option with the `dvca` command, then to successfully lockout `SYSDBA` connections, you also need to add the following values to your Microsoft Windows registry under `HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_ORACLE_HOME_NAME`:

Table 1   Registry Values to Be Added

Name	Type	Data
ORA_*SID*_PWFILE	REG_SZ	*Path_to_the_password_file*
For example,		For example,
ORA_ORCL_PWFILE		C:\ORACLE\PRODUCT\10.2.0\DB_1\dbs\orapwORCL

> **Note:**
> - For an Oracle Real Application Clusters (Oracle RAC) database, replace `SID` with `instance_name`, which is the `SID` combined with the `instance_number`.
> - For an Oracle RAC database, you must add the registry values for all cluster nodes.

1.8 Incorrect Registry Entry on Remote Node

Bug 5663098

When installing Oracle Database Vault for an Oracle RAC database, the following registry entry needs to be corrected on the remote node before running DVCA (`dvca -action optionrac`) on the remote node:

```
HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_ORACLE_HOME_NAME\ORA_instance_name_PWFILE
```

The `instance_name` in the remote node registry should be the database instance name for the remote node, and not the database instance name for the local node.

The value for this key should be the complete path to the password file on the remote node. For example:

```
C:\ORACLE\PRODUCT\10.2.0\DB_1\dbs\orapwORCL2
```

1.9 iSQL*Plus Error Encountered When DVCA Is Run

Bug 6743410

When you run Oracle Database Vault Configuration Assistant (DVCA) with the `action -option` switch after adding a new database into an existing Oracle Database Vault home on Windows Vista, *i*SQL*Plus service related errors are generated.

You can safely ignore these error messages. Alternatively, turn off the *i*SQL*Plus related Windows Service (Oracle*OracleHomeName*iSQL*Plus) before running the `dvca` command.

1.10 DVCA Log Files Show Errors After Oracle Database Vault Upgrade

Bug 6742694

When upgrading from Oracle Database Vault 10*g* Release 2 (10.2.0.4) to Oracle Database Vault 10*g* Release 2 (10.2.0.5), you must run Oracle Database Vault Configuration Assistant (DVCA) to reconfigure Oracle Database Vault. You might see the following error in the DVCA log file:

```
Executing task ACCOUNT_CREATE_OWNER
01/10/08 06:37:06 Error executing task
ACCOUNT_CREATE_OWNER:java.sql.SQLException: ORA-01920: user name 'MACSYS'
conflicts with another user or role name
01/10/08 06:37:06 Executing task GRANT_CONNECT_OWNER
*******
01/10/08 06:37:06 Executing task ACCOUNT_CREATE_MANAGER
01/10/08 06:37:06 Error executing task
ACCOUNT_CREATE_MANAGER:java.sql.SQLException: ORA-01920: user name 'MACAUTH'
conflicts with another user or role name
01/10/08 06:37:06 Executing task GRANT_CONNECT_MANAGER
```

These errors can be safely ignored.

1.11 Swap Space Requirement Prerequisite Test Fails

Bug 7506215

Oracle Database Vault installer swap space requirement test may fail in some cases even when enough swap space is available.

The swap space required for installation should not exceed 16GB. In case the required swap space is shown as more than 16 GB, this warning can be safely ignored.

1.12 Errors Generated by catmac.sql When Upgrading Oracle Database Vault

Bug 9888841

Oracle Database Vault Installation Guide includes instructions to upgrade a previous version of Oracle Database Vault to Oracle Database Vault 10.2.0.5. One of the upgrade steps requires the user to run the `catmac.sql` script. The Oracle Database Vault

Installation Guide advises the user to spool the output of this script into a file in order to look for errors.

The spooled output file may include the following errors:

```
ORA-01920: user name 'DVSYS' conflicts with another user or role name
ORA-01920: user name 'DVF' conflicts with another user or role name
SP2-0310: unable to open file catmaca.sql
ORA-01952: system privileges not granted to 'DBA'
ORA-00955: name is already used by an existing object
ORA-02260: table can have only one primary key
```

You can safely ignore these error messages.

1.13 DVCA Error During Oracle Database Vault Installation

Bug 10033496

An `ORA-01031: insufficient privileges error` may be generated during the Lock DVSYS phase of Oracle Database Vault installation process. This may be caused by a low shared pool size.

The workaround is to increase the shared pool size to a larger value. To set the shared pool size, use the following SQL statement:

```
ALTER SYSTEM SET SHARED_POOL_SIZE=VALUE;
```

1.14 Invalid Objects After Installing Oracle Database Vault

There may be invalid objects in the database after you install Oracle Database Vault.

Workaround:

1. Log into SQL*Plus as a user who has been granted the SYSDBA administrative privilege. For example:

   ```
   sqlplus sys as sysdba
   Enter password: password
   ```

2. In SQL*Plus, perform the following query to find invalid objects.

   ```
   SELECT COUNT(*) FROM ALL_OBJECTS WHERE STATUS = 'INVALID';
   ```

3. If there are invalid objects, then run the utlrp.sql script, which by default is located in the $ORACLE_HOME/rdbms/admin directory, to recompile the invalid objects.

   ```
   @?/rdbms/admin/utlrp.sql
   ```

4. If the utlrp.sql script provides any instructions, follow them, and then run the script again. If the script terminates abnormally without giving any instructions, then run it again.

Oracle Bug: 7631281

2 Usage Issues and Recommendations

This section discusses usage issues that you may encounter with Oracle Database Vault. It also provides the workarounds for these issues.

2.1 Accounts with DV_OWNER, DV_ADMIN, or DV_SECANALYST Role Cannot Use the ALTER USER Command

Bug 5161953

Accounts with the `DV_OWNER`, `DV_ADMIN`, or `DV_SECANALYST` role cannot run the following command:

```
ALTER USER user QUOTA UNLIMITED ON tablespace
```

The workaround is to `REVOKE` the role from the account, run the `ALTER USER` command, and then `GRANT` back the role to the account. This works if the account is not the `DV_OWNER` account that was created during installation. If the account is the DV_OWNER account created during installation, then you would need to use the following steps:

1. Disable Oracle Database Vault command rule for the `ALTER USER` command.

2. Run the `ALTER USER` command.

3. Re-enable Oracle Database Vault command rule for the `ALTER USER` command.

2.2 Adding Languages Using DVCA Results in Error Messages

Bug 9851682

Adding language support using the `-languages` option of Oracle Database Vault Configuration (DVCA) utility may cause constraint violation or user creation errors.

For example, using the following command might result in errors:

```
C:\> dvca -action option -oh ORACLE_HOME -hostname HOST_NAME
-owner_account OWNER_ACC -acctmgr_account ACCTMGR_ACC -sys_passwd SYS_PASSWD
-jdbc_str jdbc:oracle:oci:@SID -nodecrypt
-languages {"en,de,es,fr,it"}
```

You may see errors like the following:

```
Executing task LOAD_NLS_FILES

java.sql.SQLException: ORA-00001: unique constraint
(DVSYS.FACTOR_TYPE_T$_UK1) violated
:Fattori basati sull'organizzazione,10,i,Organizzazione

Error executing task ACCOUNT_CREATE_OWNER:java.sql.SQLException: ORA-01920:
user name 'MACSYS' conflicts with another user or role name
Error during post-installation processing. java.sql.SQLException: ORA-01920:
user name 'MACSYS' conflicts with another user or role name
Error during post-installation processing. java.sql.SQLException:
ORA-01920: user name 'MACSYS' conflicts with another user or role name
```

You can safely ignore these errors.

2.3 CREATE SESSION Privilege Is Controlled by the Data Dictionary Realm

Use the following steps to grant the `CREATE SESSION` privilege:

1. Temporarily disable the data dictionary realm.

2. Log in as the `SYSTEM` user.

3. Grant the `CREATE SESSION` privilege.

4. Enable the data dictionary realm.

3 Frequently Asked Questions on Installation

This section covers some of the frequently asked questions related to Oracle Database Vault installation. Oracle Database Vault installation is covered in detail in *Oracle Database Vault Installation Guide for Microsoft Windows Itanium (64-Bit)*.

The installer does not detect my existing Oracle Database Enterprise Edition 10*g* Release 2 (10.2.0.5) instance. What should I do?

To allow the installer to find the database instance information, you should check the following:

- The database home has Oracle Enterprise Manager Console DB 10.2.0.5.0 installed.

- The 10.2.0.5 database home does not have Oracle Database Vault in it.

- The 10.2.0.5 database home does not contain an Oracle Automatic Storage Management (Oracle ASM) instance.

- Oracle Clusterware is running. Oracle Clusterware should be running for Oracle Database Vault installer to find the existing Oracle Real Application Clusters (Oracle RAC) databases.

I have installed Oracle Database Vault into an Oracle home that has multiple databases. How do I secure the other databases in the Oracle home?

You would need to run Oracle Database Vault Configuration Assistant (DVCA) manually on the other databases. Refer to Appendix C in *Oracle Database Vault Installation Guide for Microsoft Windows Itanium (64-Bit)* for detailed instructions.

I have installed Oracle Database Vault on an Oracle Real Application Clusters (Oracle RAC) database instance. How do I secure the other nodes in the cluster?

You must run DVCA manually on the other Oracle RAC nodes. Refer to *Oracle Database Vault Installation Guide for Microsoft Windows Itanium (64-Bit)* for detailed instructions.

4 Miscellaneous Notes

This section contains miscellaneous notes not covered in the Oracle Database Vault documentation.

4.1 Snapshots and Materialized Views

The keyword SNAPSHOT is supported in place of MATERIALIZED VIEW for backward compatibility.

4.2 JOB_QUEUE_PROCESSES Initialization Parameter

The JOB_QUEUE_PROCESSES initialization parameter specifies the maximum number of processes that can be created for the execution of jobs. It specifies the number of job queue processes per instance.

This parameter must have a non-zero value. The default value for JOB_QUEUE_ PROCESSES is 10.

5 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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