Oracle® CDD/Repository for OpenVMS

Release Notes

Release 7.2

July 2005

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This document contains the release notes for Oracle CDD/Repository for HP OpenVMS Industry Standard 64 Integrity Servers and OpenVMS Alpha operating systems.

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Oracle CDD/Repository Release Notes, release 7.2 for OpenVMS

Beta Draft Documentation

Contents

Preface

Purpose of This Manual

This manual contains release notes for CDD/Repository release 7.2 that describe how to install the Oracle CDD/Repository kit.

Intended Audience

This manual is intended for use by all Oracle CDD/Repository users. Read this manual before you install, upgrade, or use Oracle CDD/Repository release 7.2.

Conventions

HP OpenVMS Industry Standard 64 Integrity Servers is often referred to as OpenVMS I64.

In this manual, OpenVMS means both the OpenVMS Alpha operating system and the OpenVMS I64 operating system.

1

Installing Oracle CDD/Repository Release 7.2

This software update is installed using the standard OpenVMS Install Utility.

NOTE

All Oracle CDD/Repository Release 7.2 kits are full kits. There is no requirement to install any prior release of Oracle CDD/Repository when installing new CDD/Repository release 7.2 kits.

1.1 Oracle CDD/Repository on OpenVMS

This release of Oracle CDD/Repository is available for the HP OpenVMS Industry Standard 64 Integrity Servers operating system as well as the OpenVMS Alpha operating system. However, certain differences between the platforms may result in minor capability and functionality differences.

Oracle recommends that you review the Oracle CDD/Repository release 7.0.1 release notes for more information about Oracle CDD/Repository.

As beta or field test software, reliability is not at production levels.

1.2 Requirements

The following conditions must be met in order to install this software:

- Oracle CDD/Repository beta test release requires the following OpenVMS environments:
  - OpenVMS Alpha V7.3-2 or later
  - OpenVMS Industry Standard 64 Version 8.2-1 or later
  - Oracle Rdb Beta Test 7.2
- Oracle Rdb must be running before you install this kit. Before you proceed with this installation, you must execute the following command:

  ```
  $ @ SYS$LIBRARY:RDB$SETVER 72
  ```
- The installation requires approximately 60,000 blocks for OpenVMS Alpha systems.
- The installation requires approximately 90,000 blocks for OpenVMS I64 systems.

1.3 DEC Distributed Transaction Manager Requirements

Oracle CDD/Repository requires DEC Distributed Transaction Manager (DECdtm) services for all transactions.

1.3.1 Enabling DECdtm Services for Oracle CDD/Repository

A DECdtm transaction log must be created for each node in your VMScluster environment, and you must define SYS$JOURNAL as a search list of all directories that contain DECdtm transaction logs.

If you do not have a DECdtm transaction log, you will receive the following error messages when you try to install Oracle CDD/Repository:

```
-CDO-E-ERRSTARTSESS, error starting an Oracle CDD/Repository session
-CDD-F-STARTSESS, error starting session
-SYSTEM-F-ABORT, abort
```

To create a transaction log, invoke the OpenVMS Log Manager Control Program (LMCP) utility. Then use the LMCP CREATE LOG command in the following format:

```
$RUN SYS$SYSTEM:LMCP
LMCP>CREATE LOG /SIZE=nnnn -
_LMCP>device:[dirspec]SYSTEM$node.LM$JOURNAL/OWNER=SYSTEM
LMCP>EXIT
```

In this example, `nnnn` is the size of the transaction log in blocks. By default, the size of the transaction log is 4000 blocks. The `device:[dirspec]` is the full specification of the directory in which you want to create the transaction log, and `node` is the name of the node.

For detailed information on creating transaction logs and managing DECdtm services, see the OpenVMS documentation for system managers.

Oracle CDD/Repository uses DECdtm to handle its two-phase commit actions. DECdtm startup is automatic as long as the logical name SYS$DECDTM_INHIBIT is not defined for your system. If DECdtm is not started, a "file spec cannot be parsed" or a %SYSTEM-F-ABORT error occurs.

To prevent these errors, perform the following steps:

1. Log in to any node in the VMScluster.
2. Enable OPER privilege.
3. Check that the system executive logical SYS$DECDTM_INHIBIT is not defined. If it is defined, regardless of its translation, deassign it using the OpenVMS System Management (SYSMAN) utility as shown in the following example:

```
$ SHOW LOGICAL SYS$DECDTM_INHIBIT
  "SYS$DECDTM_INHIBIT" = "YES" (LNM$SYSTEM_TABLE)
$ RUN SYS$SYSTEM:SYSMAN
SYSMAN> SET ENVIRONMENT/CLUSTER
SYSMAN> SET PROFILE/PRIVILEGES=SYSNAM
SYSMAN> DO DEASSIGN/SYSTEM/EXECUTIVE SYS$DECDTM_INHIBIT
```

4. Execute the DECdtm startup procedure, which defines the SYS$JOURNAL logical name.

```
SYSMAN>DO @SYS$STARTUP:DECDTM$STARTUP.COM FULL
SYSMAN>EXIT
```

5. Edit the SYS$STARTUP:SYLOGICALS.COM command procedure to delete the SYS$DECDTM_INHIBIT definition. This ensures that DECdtm services start automatically when you boot the system.

1.4 Database Format Changed

The Oracle Rdb on-disk database format has been incremented to 720. An RMU/CONVERT operation is required for databases to be accessed with Oracle Rdb release 7.2. Refer to the Oracle Rdb documentation for information about how to convert CDD$DATABASE.RDB.

Prior to converting an existing database to Oracle Rdb V7.2 format, Oracle strongly recommends that you perform an RMU/VERIFY/FULL operation along with an RMU/BACKUP operation to ensure a valid and protected database copy.

1.5 Prior PCSI-installed Kit

If you previously installed the limited-functionality ADK kit with the PCSI installation procedure, you can remove the ADK software prior to installing this full kit. You can use the PRODUCT SHOW HISTORY CDDADK command to determine if the ADK kit is installed on your system.

If the CDDADK kit was previously installed on your system, it will be automatically deinstalled by this kit.

1.6 Invoking the VMSINSTAL Procedure

The installation procedure for Oracle CDD/Repository has been slightly simplified. All Oracle CDD/Repository components are always installed and the number of questions has been reduced. The installation procedure is the same for Oracle CDD/Repository for OpenVMS Alpha and Oracle CDD/Repository for OpenVMS I64. The existing Oracle CDD/Repository release 7.0.1 installation documentation can be utilized as a guide.

The full Oracle CDD/Repository 7.0.1 Installation Guide is available on MetaLink in Adobe Acrobat PDF format:

```
Top Tech Docs\Database\Rdb\CDD/Repository and CDD/Administrator\Documentation Index\
  Installing Oracle CDD/Repository Release 7.0.1 for OpenVMS
```

and on OTN:

```
www.oracle.com/technology/documentation/rdb.html#cdd/
  Installing Oracle CDD/Repository Release 7.0.1 for OpenVMS
```

To start the installation procedure, invoke the VMSINSTALL command procedure:

```
@SYS$UPDATE:VMSINSTAL CDDT72040I072 device-name
```

For `device-name`, use the name of the device on which the media is mounted. If the device is a disk drive, you also need to specify a directory, for example: `DKA400:[RDB.KIT]`

1.7 Stopping the Installation

To stop the installation procedure at any time, press Ctrl/Y. When you press Ctrl/Y, the installation procedure deletes all files it has created up to that point and exits. You can then start the installation again.

If VMSINSTAL detects any problems during the installation, it notifies you and a prompt asks if you want to continue. You might want to continue the installation to see if any additional problems occur. However, the copy of Oracle CDD/Repository installed will probably not be usable.

1.8 After Installing Oracle CDD/Repository

Once the installation has completed, a transitional registration is performed with PCSI to protect against any OpenVMS upgrades which could include the CDDSHR shareable image.

1.9 Maximum OpenVMS Version Check

OpenVMS Version 8.2-1 is the maximum supported version of OpenVMS for this release of Oracle CDD/Repository.

The check for the OpenVMS operating system version and supported hardware platforms is performed both at installation time and at runtime. If either a non-certified version of OpenVMS or hardware platform is detected during installation, the installation will abort. If a non-certified version of OpenVMS or hardware platform is detected at runtime, Oracle CDD/Repository will not start.

1.10 Sample Installation Dialogue

The Oracle CDD/Repository Version 7.2 installation has been simplified by reducing the number of responses required during the installation procedure. The following example shows the output from an installation.

```
$ @SYS$LIBRARY:RDB$SETVER 72
Current PROCESS Oracle Rdb environment is version T7.2-050 (MULTIVERSION)
Current PROCESS SQL environment is version T7.2-050 (MULTIVERSION)
Current PROCESS Rdb/Dispatch environment is version 7.2-01 (MULTIVERSION)
$ @SYS$UPDATE:VMSINSTAL CDDT72040I072 DISK1:[IA64.KIT]

 OpenVMS  Software Product Installation Procedure XAV1-D2Y


It is 20-Jul-2005 at 08:18.

Enter a question mark (?) at any time for help.

%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.
* Do you want to continue anyway [NO]? yes
* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:

  CDDT72040I V7.2

 Beginning installation of CDDT72040I V7.2 at 08:18

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.

***********************************************************************

                Oracle CDD/Repository T7.2-040
                  Kit Installation Procedure
```

```
  Copyright © 2004,2005 Oracle Corporation.  All Rights Reserved
**********************************************************************

* Press return to continue:

*****************************************************************

  The CDD$DICTIONARY system logical name is used to identify the
  location of the pre-V4.0 CDD product root dictionary file.

  The default is SYS$COMMON:[SYSEXE].

  CDD$DICTIONARY is currently defined to be: SYS$COMMON:[SYSEXE]

*****************************************************************

* Is this the correct location for your system's root dictionary file [YES]?

*****************************************************************

  The CDD$COMPATIBILITY system logical name is used to identify
  the location of the compatibility repository.

  The default is SYS$COMMON:[CDDPLUS].

  CDD$COMPATIBILITY is currently defined to be: SYS$COMMON:[CDDPLUS]

*****************************************************************

* Is this the correct location for your system's compatibility repository [YES]?

*****************************************************************

  Your system's compatibility repository may require upgrading.
  This installation procedure does not upgrade that repository
  automatically.  You must run SYS$LIBRARY:CDD$UPGRADE.COM after
  installation.  You should not continue this installation unless
  you are prepared to upgrade your system's compatibility
  repository immediately after installation.

*****************************************************************

* Do you want to continue the installation [YES]?

*****************************************************************

  The CDD$TEMPLATE system logical name is used to identify the
  location of the template repository.  The template repository
  is used to create other repositories.

  The default is SYS$COMMON:[CDD$TEMPLATE].

  This installation procedure will delete all files in the
  current template repository directory and then re-create the
  template repository.

  CDD$TEMPLATE is currently defined to be: SYS$COMMON:[CDD$TEMPLATE]

*****************************************************************

* Is this the correct location for your system's template repository [YES]?

*****************************************************************

  The CDD$TEMPLATEDB system logical name is used to identify the
  location of the template repository database file.

  The default is SYS$COMMON:[CDD$TEMPLATEDB].

  This installation procedure will delete all files in the current
  template repository database file directory and then re-create
  the template repository database file.

  CDD$TEMPLATEDB is currently defined to be: SYS$COMMON:[CDD$TEMPLATEDB]
```

```
****************************************************************

  * Is the correct location for your system's template repository database
  file[YES]?

****************************************************************

  The CDD$EXTENSIONS system logical name is used to identify the
  location of the extensions directory.

  The default is SYS$COMMON:[CDD_EXTENSIONS].

  CDD$EXTENSIONS is currently defined to be: SYS$COMMON:[CDD_EXTENSIONS]

****************************************************************

* Is this the correct location for your system's extensions directory [YES]?

****************************************************************

  This installation provides description files that are needed
  when using the callable interface.

****************************************************************

* Do you want all the description files provided [YES]?

****************************************************************

  The following languages have been chosen:

      ADA,BLISS,BASIC,C,FORTRAN,MACRO,PASCAL,PLI

****************************************************************

* Is this OK [YES]?

****************************************************************

  Because your CDD$COMPATIBILITY repository may need upgrading,
  a repository must be created in order to run the Installation
  Verification Procedure (IVP).  This repository will be deleted
  at the end of the installation.

****************************************************************

* Do you want to run the IVP after the installation [YES]?

****************************************************************

  The Installation Verification Procedure repository location is
  used to create a repository for the tests done in the IVP.

  The default is SYS$COMMON:[SYSTEST.CDD$IVP_REPOSITORY].

  The equivalence string for the IVP repository must resolve to a
  device and directory (e.g. DBA0:[CDD$IVP_REPOSITORY).

****************************************************************

* Enter the location of the IVP repository [SYS$COMMON:[SYSTEST.CDD$IVP_REPOSITORY]]:
* Do you want to print the log file from the IVP [NO]?
* Do you want to save the log file from the IVP [NO]?
* Do you want to purge files replaced by this installation [YES]?

****************************************************************

  To complete the installation on a standalone rx2600 will take
  approximately:

        3 minutes to install
        2 minutes to run the IVP

  All required questions have been asked.  You can terminate
  the installation procedure at this time.
```

```
****************************************************************

* Do you want to continue the installation [YES]?
%VMSINSTAL-I-RESTORE, Restoring product save set B ...

%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSTEST.CDD].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSHLP.EXAMPLES.CDD].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  SYS$COMMON:[CDDPLUS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  SYS$COMMON:[CDD$TEMPLATE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  SYS$COMMON:[CDD$TEMPLATEDB].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  SYS$COMMON:[CDD_EXTENSIONS].

CDD$REMOTE5 has been placed in the DECnet object database as number 0.

****************************************************************

  If your DECnet object database is not configured to be in the
  cluster common directory, then you will need to perform the
  following:

  In order to have remote access on another node which shares
  this cluster common root directory, you must insert:

        SYS$SYSTEM:CDD$REMOTE5.COM

  into that node's DECnet object database by:

        a. Logging in to that node, and
        b. Invoking SYS$COMMON:[SYSMGR]CDD$REMOTE5_NCP.COM.

  This command procedure inserts CDD$REMOTE5 into the node's
  permanent DECnet object database.  This procedure only needs
  to be executed ONCE per node.

****************************************************************

****************************************************************

  A startup file has been installed on your system in the
  following location:

        SYS$STARTUP:CDDSTRTUP.COM

  This startup file must be invoked whenever a system is rebooted.
  This can be done automatically by adding the following line to
  SYS$STARTUP:SYSTARTUP_VMS.COM:

        $ @SYS$STARTUP:CDDSTRTUP.COM

  If SYS$STARTUP:SYSTARTUP_VMS.COM does not currently invoke
  the Oracle Rdb startup procedure, this can also be done
  automatically by adding the following line:

        $ @SYS$STARTUP:RMONSTARTnn.COM

  In this command, nn is the Oracle Rdb version number.

****************************************************************

****************************************************************

  A shutdown file has been installed on your system in the
  following location:

        SYS$STARTUP:CDDSHUTDOWN.COM

  This shutdown file should be invoked whenever the system is
  shut down.  This can be done automatically by adding the
  following line to SYS$STARTUP:SYSHUTDWN.COM:

        $ @SYS$STARTUP:CDDSHUTDOWN.COM

****************************************************************
```

```
****************************************************************

  An Installation Verification Procedure (IVP) has been
  installed on your system and can be run after the
  installation is complete.  It is invoked as follows:

        $ @SYS$TEST:CDD$IVP.COM

****************************************************************

    Providing the following LSE language(s):

        CDDL
        PKG_C_MCS
        PKG_VAXADA_MCS
        PKG_VAXMACRO_MCS
        PKG_VAX_MCS

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
%CDD-I-CRETMPLRPO, The template repository will now be created...
%CDD-I-CRECONT, define repository continuing without template
%CDD-I-CRETMPLDBF, The template repository database file will now be created...

****************************************************************

  Begin Oracle CDD/Repository T7.2-040 IVP.

****************************************************************

****************************************************************

  Oracle CDD/Repository T7.2-040 IVP completed successfully.

****************************************************************

****************************************************************

  IMPORTANT NOTE - Please upgrade your system's CDD$COMPATIBILITY
                   repository!

  If this was a reinstallation and your system's CDD$COMPATIBILITY
  repository has already been upgraded, or this was the first
  time any version of Oracle CDD/Repository has been installed on
  your system, please disregard the following:

  This installation has provided the following upgrade procedure,
  which can be used to upgrade your system's CDD$COMPATIBILITY
  repository:

        SYS$LIBRARY:CDD$UPGRADE.COM

  This upgrade procedure can also be used to upgrade any other
  repositories on your system.

  If CDD$COMPATIBILITY:CDD$DATABASE.RDB is larger than 20,000
  blocks, please see the document 'Installing Oracle
  CDD/Repository on OpenVMS Systems' for more information on.
  additional requirements for PGFLQUOTA and disk space.

****************************************************************

****************************************************************

  The Oracle CDD/Repository T7.2-040 product registration file has
  been located and will now be registered with PCSI ...

The following product has been selected:
    ORCL I64VMS CDD T7.2-40               Transition (registration)

The following product will be registered:
    ORCL I64VMS CDD T7.2-40               DISK$IA64VMSSYS1:[VMS$COMMON.]
```

```
Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%

The following product has been registered:
    ORCL I64VMS CDD T7.2-40                Transition (registration)

*****************************************************************
 Installation of CDDT72040I V7.2 completed at 08:21

    Adding history entry in VMI$ROOT:[SYSUPD]VMSINSTAL.HISTORY

    Creating installation data file: VMI$ROOT:[SYSUPD]I072.VMI_DATA

 VMSINSTAL procedure done at 08:21
```