DEC ODA Compound Document Architecture (CDA) Gateway

Installation Guide

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This document contains instructions for installing the DEC ODA Compound Document Architecture (CDA) Gateway on the VMS operating system.

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Preface

This guide describes the installation of the DEC ODA Compound Document Architecture (CDA) Gateway on the VMS operating system.

Note

The DEC ODA Compound Document Architecture (CDA) Gateway is referred to as the ODA CDA Gateway in this guide.

Purpose of This Guide

The purpose of this guide is to describe how to install the ODA CDA Gateway. This guide also describes the preparations that are necessary before you install the ODA CDA Gateway.

Who Should Use This Guide

This guide is intended for system managers. Keep this guide with your distribution kit. You will need it to install maintenance updates or to reinstall the ODA CDA Gateway.

Structure of This Guide

This guide has two chapters, two appendixes, and an index.

- Chapter 1 describes the prerequisites for installing the ODA CDA Gateway.
- Chapter 2 describes the installation procedure for the ODA CDA Gateway and contains a sample installation.
- Appendix A describes the version numbering system for maintenance updates to the ODA CDA Gateway.
- Appendix B describes how to determine and report problems with the ODA CDA Gateway.

Associated Documents

For more information about the ODA CDA Gateway, see the *DEC ODA Compound Document Architecture (CDA) Gateway User's Guide*.

Related Documents

The following documents also contain useful information:

- *VMS Authorize Utility Manual*
- *VMS License Management Utility Manual*
- *VMS System Messages and Recovery Procedures Reference Volume*

Conventions

The following conventions are used in this guide:

Convention	Description
Return	In examples and syntax, a key name enclosed in a rectangle indicates that you press that key.
Ctrl/*x*	Ctrl/*x* indicates that you hold down the Ctrl key while you press another key (indicated here by *x*).
[ ]	In system prompts, the default value for the prompt is enclosed in brackets.
Note	A note contains information that is of special importance to the reader.
`Color`	Text in color indicates user input.
UPPERCASE	Command names in text are shown in uppercase.
italic type	Italic type emphasizes a word or phrase, and indicates the complete titles of other documents.
`monospace type`	Monospace type indicates text displayed by the system.

1
Before You Install the ODA CDA Gateway

This chapter describes the preparations and requirements necessary for installing the ODA CDA Gateway.

1.1 Prerequisite Software

The ODA CDA Gateway Version 1.0 requires VMS Version 5.4.

1.2 Accessing the Online Release Notes

The ODA CDA Gateway provides online release notes. The prompt to display or print the release notes during the installation is displayed in step 4 of the installation procedure (see Section 2.1), when you invoke VMSINSTAL with the OPTIONS N parameter.

To access the release notes after you complete the installation, type or print the file SYS$HELP:ODA010.RELEASE_NOTES.

1.3 Installation Procedure Requirements

The installation takes about four minutes, depending on the type of media and the system configuration. Before installing the ODA CDA Gateway, you must have the following privileges and resources:

- SETPRV privileges, or CMKRNL, WORLD, and SYSPRV privileges
- A minimum of 4000 blocks of free disk space during the installation; 1800 blocks are used after the installation

1.4 User Account Quotas and Privileges

To use the ODA CDA Gateway, each account must have TMPMBX and NETMBX privileges and must meet the following requirements:

- AST limit (ASTLM) 24 (minimum)
- Buffered I/O quota (BIOLM) 18 (minimum)

- Buffered I/O byte count quota (BYTLM) 18 000 (minimum)
- Direct I/O quota (DIOLM) 18 (minimum)
- Enqueue quota (ENQLM) 30 (minimum)
- Open file limit (FILLM) 40 (minimum)
- Paging file quota (PGFLQUOTA) 10 240 pages (minimum)
- Subprocess creation quota (PRCLM) 0 (minimum)
- Working set size (WSDEF) 256 pages (minimum)

Use the VMS Authorize Utility (AUTHORIZE) to compare the current values of these quotas with the requirements for the ODA CDA Gateway. For example, the account used in the following example is the SYSTEM account:

```
$  SET DEFAULT SYS$SYSTEM Return
$  RUN AUTHORIZE Return
UAF>  SHOW SYSTEM Return
```

To change the values of these quotas, use the VMS Authorize Utility's MODIFY command. For more information, see the *VMS Authorize Utility Manual*.

1.5 VMS License Management Facility

You must register the ODA CDA Gateway license, using the VMS License Management Facility (LMF) in accordance with the license agreement signed by your site. The license registration information you want is contained in the Product Authorization Key (PAK) that is shipped with the ODA CDA Gateway. The PAK is a paper certificate containing information about the license you have to run a particular piece of software.

During the installation, the system asks you whether you have registered the ODA CDA Gateway license and loaded the appropriate PAK. To use the software, you must register and load your license for the ODA CDA Gateway *before* you start the installation.

To register a license under VMS, first log in to the system manager's account, SYSTEM. Then choose one of the following ways of registering the ODA CDA Gateway:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When it prompts you for information, enter data from your PAK.
- At the DCL prompt, enter the LICENSE REGISTER command with the appropriate qualifiers that correspond to the PAK information.

If you intend to use the ODA CDA Gateway on more than one node in a VAXcluster system, you must load the license on the other nodes after you complete the installation. For more information on using LMF, see the *VMS License Management Utility Manual*.

1.6 Using VMSINSTAL

After you log in to a privileged account to install the ODA CDA Gateway, invoke VMSINSTAL. VMSINSTAL is the command procedure that installs this product. An example of invoking VMSINSTAL is shown in steps 1 and 2 of Chapter 2.

The VMSINSTAL command procedure has the following syntax:

```
$ @SYS$UPDATE:VMSINSTAL ODA010 ddcu: [OPTIONS N]
```

You can also type an asterisk (*) instead of ODA010. If you are installing the product from magnetic tape, you can use an asterisk to save installation time. The asterisk causes the ODA CDA Gateway to be installed with a minimum of tape passes.

ddcu:
Represents a device name. The distribution volumes will be mounted for the ODA CDA Gateway installation media, where *dd* is the device code, *c* is the controller code, and *u* is the unit number.

You do not have to use the console drive to install the ODA CDA Gateway. If you do use the console drive, and if you removed any media from the drive, you must replace the media. MUA0: is the device name used in examples in this guide.

OPTIONS N
Is an optional parameter. You must specify this parameter if you want to be prompted to display or print the release notes. If you do not specify the OPTIONS N parameter, VMSINSTAL does not prompt you to display or print the release notes. VMSINSTAL has several other options. For more information on the other options, see the processor-specific installation or operations guide.

If you do not specify the product and device names, VMSINSTAL prompts you for them. If you want to be prompted for the product and device names, and if you want to display or print the release notes, enter the following:

```
$ @SYS$UPDATE:VMSINSTAL Return
```

When you invoke VMSINSTAL, it checks the following:

- Whether you logged in to a privileged account. Digital recommends that you install software from the system manager's account with the default device and directory set to SYS$UPDATE.
- Whether you have adequate quotas to install the software. VMSINSTAL checks for the following quota values:
  - ASTLM = 24
  - BIOLM = 18
  - BYTLM = 20 480
  - DIOLM = 18
  - ENQLM = 200
  - FILLM = 40

VMSINSTAL then checks whether users are logged in to the system. If VMSINSTAL detects that users are logged in, the system asks you whether you want to continue the installation. If you want to continue, type YES. If you do not want to continue the installation, press Return.

Before you begin the installation, register the information contained in the PAK that is shipped with the ODA CDA Gateway. Use either the VMS License command procedure (VMSLICENSE) or the LICENSE REGISTER and LICENSE LOAD commands, as described in the *VMS License Management Utility Manual*, to register the PAK information.

2

Installing the ODA CDA Gateway

This chapter describes the installation procedure for the ODA CDA Gateway and contains a sample installation.

2.1 Installation Procedure

This section lists the steps in the installation procedure.

Step 1: Log in to a privileged account and set your default device and directory to SYS$UPDATE.

```
Return
Username:  SYSTEM   Return
Password:           Return
$  SET DEFAULT SYS$UPDATE  Return
```

Step 2: Invoke VMSINSTAL.

Invoke VMSINSTAL to start the installation procedure. To abort the installation procedure, press Ctrl/Y. When you press Ctrl/Y, the installation procedure deletes all the files it has created up to that point and then returns you to the DCL prompt. If you want to retry the installation procedure after pressing Ctrl/Y, you must continue from step 2.

```
$  @VMSINSTAL ODA010.A MUA0: OPTIONS N  Return

      VAX/VMS Software Product Installation Procedure V5.4


It is dd-mmm-yyyy at hh:mm.
Enter a question mark (?) at any time for help.

* Are you satisfied with the backup of your system disk [YES]?  Return
```

If you are satisfied with the backup of your system disk, press Return. If you are not satisfied, type NO and press Return to stop the installation.

Step 3: Insert the first installation kit volume.

```
Please mount the first volume of the set on MUA0:.
* Are you ready?  YES Return
The following products will be processed:

    ODA V1.0


   Beginning installation of ODA V1.0 at hh:mm

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
```

If you want to continue the installation, mount volume 1, type YES, and press Return.

Step 4: Choose a release notes option.

This step applies only if you specified OPTIONS N in step 2.

```
Release Notes Options:

    1. Display release notes
    2. Print release notes
    3. Both 1 and 2
    4. Copy release notes to SYS$HELP
    5. Do not display, print or copy release notes

* Select option [3]:  Return
```

The release notes options are as follows:

- Option 1—When you choose this option, VMSINSTAL displays the release notes. To stop the display, press Ctrl/C.
- Option 2—When you choose this option, VMSINSTAL prompts you for a queue name. Either type a queue name or press Return to send the file to the default print device.

  ```
  * Queue name [SYS$PRINT]:  Return
  ```

- Option 3—When you choose this option, VMSINSTAL displays the release notes. To stop the display, press Ctrl/C.

  VMSINSTAL then prompts you for a queue name. Either type a queue name or press Return to send the file to the default print device. VMSINSTAL then copies the ODA CDA Gateway release notes to SYS$HELP:ODA010.RELEASE_NOTES.

- Option 4—When you choose this option, VMSINSTAL immediately copies the release notes to SYS$HELP.

- Option 5—When you choose this option, VMSINSTAL does not display, print, or copy the release notes. You choose this option when you want to stop the installation. If you choose this option, and you do not want to stop the installation, you must install the kit again to access the release notes.

Note

The version of the release notes file installed by VMSINSTAL indicates the current product name and version number. Do not delete the release notes for previous versions of the ODA CDA Gateway.

VMSINSTAL then displays the following message:

```
* Do you want to continue the installation [N]?:  Y Return
```

If you want to continue the installation, type YES and press Return. If you do not want to continue the installation, type NO or press Return. In either case, VMSINSTAL copies the release notes to SYS$HELP.

```
%VMSINSTAL-I-RELMOVED, The product release notes have been successfully
    moved to SYS$HELP.
```

Step 5: Respond to the license registration queries.

The ODA CDA Gateway supports the VMS License Management Facility (LMF). The installation procedure displays license information about your product. It then asks you if you have registered and loaded your PAK for the ODA CDA Gateway. The following is an example of license information:

```
Product:       ODA-CDA-GATEWAY
Producer:      DEC
Version:       1.0
Release Date:  26-MAR-1991

* Does this product have an authorization key registered and loaded?
```

If you have not registered and loaded your PAK, you must type NO. You must register and load your PAK to successfully complete the installation. If you have not done so, stop the installation, register and load your PAK. Then restart the installation.

Step 6: Choose the installation options.

```
* Do you want to purge files replaced by this installation [YES]? Return
```

The directories SYS$LIBRARY, SYS$MESSAGE, and SYS$TEST may contain earlier versions of the ODA CDA Gateway files. These files are replaced with new files during the installation. The earlier versions of the files are not automatically purged. However, purging is recommended. In response to the purging prompt, press Return to purge the files, or type NO to keep them.

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

The Installation Verification Procedure (IVP) runs tests that check whether the installation procedure was successful. Press Return to run the IVP after the installation. If you do not want to run the IVP, type NO in response to the prompt.

Step 7: Read the informational messages.

The ODA CDA Gateway installation procedure displays informational messages that report on the progress of the installation.

If the installation procedure is successful, the new or modified files are moved to their target directories. The success of the installation is indicated by the following message:

```
%VMSINSTAL-I-MOVEFILES, files will now be moved to their target directories...
```

Table 2–1 lists the files created or modified by the installation of the ODA CDA Gateway. If you typed YES in response to the prompt that requests a file purge in step 6, earlier versions of the ODA CDA Gateway files are now purged.

Table 2–1 Files Created or Modified by the Installation

Directory	File Name
sys$library	ddif$read_oda.exe
sys$library	ddif$write_oda.exe
sys$message	ddif$read_oda_messages.exe
sys$message	ddif$write_oda_messages.exe
sys$message	ddif$read_oda_cgm_messages.exe
sys$message	ddif$write_oda_cgm_messages.exe
sys$library	ddif$read_oda_cgm.exe
sys$library	ddif$write_oda_cgm.exe
sys$library	oda$q112_handler.exe
sys$library	oda$q111_handler.exe
sys$library	oda$text_handler.exe
sys$library	oda$raster_handler.exe
sys$library	oda$geometric_handler.exe
sys$library	odif$$toolkit.exe
sys$test	oda$ivp.com
sys$test	oda$test_doc.oda

Step 8: Observe the Installation Verification Procedure (IVP).

If you chose to run the IVP in step 6, VMSINSTAL now calls the IVP to verify that the ODA CDA Gateway was installed successfully.

```
%ODA-I-BEGINIVP, Beginning 1.0-000 IVP.

%ODA-S-IVP,ODA CDA GATEWAY 1.0-000 IVP completed successfully

    This IVP can be rerun.
```

At this point in the installation procedure, earlier versions of the ODA CDA Gateway files are purged if you type YES in response to the prompt that requests a file purge.

Step 9: End the installation procedure.

When the installation procedure is complete, you can choose to install more products, or press Return to exit from VMSINSTAL. If you removed media from the console drive before beginning the installation, replace it now.

```
   Installation of ODA V1.0 completed at hh:mm

Enter the products to be processed from the next distribution volume set.
* Products:    Return
    VMSINSTAL procedure done at hh:mm
$  LOGOUT  Return
SYSTEM     logged out at dd-mmm-yyyy hh:mm:ss.ss
```

VMSINSTAL deletes or changes entries in the process symbol tables during the installation. So, if you want to continue using the system manager's account and if you want to restore these symbols, log out and log in again.

2.2 Running the Installation Verification Procedure Separately on VMS

You usually run the IVP when you install a product. If you want to run the IVP separately to ensure the integrity of the installed files, enter the following command:

```
$  @sys$test:oda$ivp  Return
```

If the IVP fails for any reason, a message like the following is displayed:

```
%ODA-F-IVP, ODA CDA Gateway 1.0 IVP has failed
```

2.3 Error Conditions on VMS

If the installation procedure fails for any reason, a message like the following is displayed:

```
%VMSINSTAL-E-INSFAIL, The installation of ODA V1.0 has failed.
```

An error during the installation may occur if one or more of the following conditions exist:

- Operating system version is incorrect
- Prerequisite software version is incorrect
- Quotas necessary for successful installation are insufficient (see Section 1.3)
- Process quotas required by VMSINSTAL are incorrect (see Section 1.6)
- The product was registered incorrectly or not registered

For descriptions of the error messages generated by these conditions, see the following:

- *VMS System Messages and Recovery Procedures Reference Volume*
- Your processor-specific installation or operations guide
- *VMS License Management Utility Manual*

If you are notified that some of these conditions exist, take the appropriate action as described in the message.

If the installation fails, you must restart the installation procedure from step 2. If the installation fails because of an IVP failure, contact a Digital field service representative.

2.4 Sample Installation on VMS

This section contains a sample installation of the ODA CDA Gateway. Sometimes the installation procedure is modified during maintenance updates of the product. Because this installation guide is not usually revised for maintenance updates, read the *Read Before Installing the DEC ODA Compound Document Architecture (CDA) Gateway* letter before you install this product. This letter lists the significant changes in the installation procedure that vary from the sample installation.

Sample ODA CDA Gateway Installation Procedure

```
$  @SYS$UPDATE:VMSINSTAL

        VAX/VMS Software Product Installation Procedure V5.4

It is 20-JAN-1991 at 18:54.

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

* Are you satisfied with the backup of your system disk [YES]?  Return

* Where will the distribution volumes be mounted:  disk$:[oda]  Return

Enter the products to be processed from the first distribution volume set.
* Products:  ODA  Return

* Enter installation options you wish to use (none):  Return

The following products will be processed:
  ODA V1.0

        Beginning installation of ODA V1.0 at 18:54

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

           +-----------------------------------------------+
           | Installation of DEC ODA CDA Gateway 1.0-000   |
           +-----------------------------------------------+

        The installation can be aborted at any time by pressing CTRL/Y.

        Product:      ODA-CDA-GATEWAY
        Producer:     DEC
        Version:      1.0
        Release Date: 26-MAR-1991
* Does this product have an authorization key registered and loaded?  Y  Return

       This kit contains an Installation Verification Procedure (IVP) to
       verify the correct installation of the DEC ODA CDA Gateway. It
       can be run prior to the conclusion of this procedure by answering
       "YES" to the IVP prompt or invoked after the installation as
       follows:

                @SYS$TEST:ODA$IVP

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

* Do you want to purge files replaced by this installation [YES]?  Return

       No further questions will be asked.  The DEC ODA CDA Gateway
       installation will now continue for approximately 5 to 15 minutes,
       depending on your type of media and your system configuration.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
```

```
Files placed on the system for the DEC ODA CDA Gateway are:

sys$library:ddif$read_oda.exe
sys$library:ddif$write_oda.exe
sys$message:ddif$read_oda_messages.exe
sys$message:ddif$write_oda_messages.exe
sys$message:ddif$read_oda_cgm_messages.exe
sys$message:ddif$write_oda_cgm_messages.exe
sys$library:ddif$read_oda_cgm.exe
sys$library:ddif$write_oda_cgm.exe
sys$library:oda$q112_handler.exe
sys$library:oda$q111_handler.exe
sys$library:oda$text_handler.exe
sys$library:oda$raster_handler.exe
sys$library:oda$geometric_handler.exe
sys$library:odif$$toolkit.exe
sys$test:oda$ivp.com
sys$test:oda$test_doc.oda

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
%ODA-I-BEGINIVP, Beginning 1.0-000 IVP.

%ODA-S-IVP,ODA CDA GATEWAY 1.0-000 IVP completed successfully

        This IVP can be rerun.

        Installation of ODA V1.0 completed at 18:56

Enter the products to be processed from the next distribution volume set.
* Products:  Return
        VMSINSTAL procedure done at 18:57
$  LOGOUT  Return
  SYSTEM      logged out at 20-JAN-1991 18:57:36.33
```

A

Maintenance Updates

This appendix describes the version numbering system for maintenance updates to the ODA CDA Gateway.

This guide applies to the ODA CDA Gateway Version 1.0 and all maintenance updates in that version. A major version number is indicated by the digits to the left of the decimal point, and a maintenance update version number is indicated by the digits to the right of the decimal point.

Digital may periodically issue maintenance updates of the ODA CDA Gateway. Each update consists of an installation kit. Install the kit as described in this document or in the documentation with the maintenance update.

Each time a maintenance update is released, the version number changes. For example, if the current version is 1.0, the version number of the first maintenance update will be 1.1. In addition, each maintenance update includes new release notes. The release notes describe the changes that have been made to the ODA CDA Gateway since the previous release.

The updated release notes are on line. It is recommended that you read the release notes when you first install the ODA CDA Gateway. You can also access them after the product is installed. For information on reading the release notes when you are installing the ODA CDA Gateway on VMS systems, follow steps 1, 2, 3, and 4 of the installation procedure in Chapter 2.

To locate the release notes after the ODA CDA Gateway is installed on VMS, display or print the file SYS$HELP:ODA010.RELEASE_NOTES.

B

Determining and Reporting Problems

This appendix describes how to determine and report problems with the ODA CDA Gateway.

If an error occurs while you are using the ODA CDA Gateway and you think the error is caused by a problem with the ODA CDA Gateway, take one of the following actions:

- If you bought the ODA CDA Gateway within the past 90 days and you think the problem is caused by a software error, submit a Software Performance Report (SPR).
- If you have a Basic or DECsupport Software Agreement, call your Customer Support Center. With these services, you receive telephone support that provides high-level advisory and remedial assistance. For more information, contact your local Digital representative.
- If you have a Self-Maintenance Software Agreement, submit a Software Performance Report (SPR).

If you find an error in the ODA CDA Gateway documentation, fill out and submit a Reader's Comments form from the end of the document in which the error was found. Include the section and page number where you found the error.

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