CDA Converter Library

Installation Guide

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This document contains instructions for installing the CDA™ Converter Library on the OpenVMS™ for VAX™ operating system. It also explains how to read the online release notes before or after installing the product. This document applies to the CDA Converter Library Version 2.2 and all maintenance updates throughout that version.

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Preface

Purpose of This Guide

This guide describes how to install the CDA Converter Library on VAX processors that are running the OpenVMS operating system.

Keep this document with your distribution kit. You will need it to install maintenance updates or to reinstall the CDA Converter Library for any other reason.

At the back of this document are two Reader's Comments forms. If you have any comments about this document, fill out one form and mail it; your comments will be considered for the next revision of the installation guide.

Audience

This guide is for the system manager who installs the CDA Converter Library software.

Structure of this Document

This guide contains three chapters and two appendices as follows:

- Chapter 1 describes how to prepare for installing the CDA Converter Library on OpenVMS systems.
- Chapter 2 describes how to install the CDA Converter Library on OpenVMS systems.
- Chapter 3 describes what you must do after installing the CDA Converter Library on OpenVMS systems.
- Appendix A contains a sample installation of the CDA Converter Library on OpenVMS systems.
- Appendix B contains the names of all files and directories created on your system when you install the CDA Converter Library.

Manuals in the CDA Converter Library Documentation Set

In addition to this guide, the CDA Converter Library documentation set includes the following books:

- *Using the CDA Converter Library*
- *Technical Guide to the CDA Converter Library*
- *Conversion Messages Guide*

The *Conversion Messages Guide* is supplied as an online text file. This file is available at the following location:

```
SYS$COMMON:[SYSHLP]CDACVTLIB$MESSAGES.TXT
```

Online bookreader™ files of this product are also available as part of the OpenVMS Consolidated Software Distribution on CD-ROM.

Conventions

The following conventions are used in this guide:

Convention	Description
UPPERCASE TEXT	Uppercase letters indicate the name of a command, a file, a parameter, a procedure, or utility.
`$@SYS$UPDATE:VMSINSTAL`	In interactive examples, user input is printed in courier font.
$	The dollar sign is used to indicate the DCL prompt. This prompt may be different on your system.
Ctrl/*x*	In procedures, a sequence such as Ctrl/*x* indicates that you must hold down the key labeled Ctrl while you press another key or a pointing device button.
Return	In procedures, a key name is shown enclosed to indicate that you press a key on the keyboard.
. . .	Horizontal ellipsis indicates that additional parameters, values, or information can be entered.
Note	A note contains information of special importance to the user.

Convention	Description
[logical-name]	Square brackets indicate that the enclosed item is optional. (Square brackets are not, however, optional in the syntax of a directory name in a file specification or in the syntax of a substring specification in an assignment statement.)

1

Preparing to Install the CDA Converter Library on OpenVMS

This chapter gives information about the preparations and requirements necessary for installing the CDA Converter Library. This chapter contains the following:

- Preparing for the CDA Converter Library installation
- Prerequisite and optional software
- Installation procedure requirements
- Process account quotas
- VMSINSTAL requirements
- Backing up your system disk
- CDA Converter Library requirements

1.1 Preparing for the CDA Converter Library Installation

This section applies to Version 2.2 of the CDA Converter Library and all subsequent maintenance releases up to the next major product release.

Your bill of materials (BOM) specifies the number and contents of your media. Be sure to verify the contents of your kit with this information. If your kit is damaged or if you find that parts of it are missing, contact your Digital™ representative.

The CDA Converter Library provides online release notes. Digital strongly recommends that you read the release notes before proceeding with the installation. For information about accessing the online release notes, see Section 2.1.

1.2 Prerequisite and Optional Software

Table 1–1 provides information about the software that you must have installed on your system before installing the CDA Converter Library. Table 1–1 also includes information about optional software that you can use with the CDA Converter Library. The System Software Addendum (SSA) and Software Product Description (SPD) contains a complete list of prerequisite and optional software and their required version numbers.

Table 1–1 Prerequisite and Optional Software

Prerequisite Products	Purpose
OpenVMS Version 5.0	
DECimage™ Application Services Version 2.0 or Version 3.0	Required for the TIFF and MacPaint® converters
Digital's Image Applications Services (DAS) V3.0 or later	Required when using the Graphics Hardcopy converter. DAS V3.0 is distributed as part of the Motif kit.
DEC GKS™ Version 4.2 (Runtime System)	Required when using the Graphics Hardcopy converter
Digital CDA Run-Time Services or CDA Base Services	A version of CDA Run-Time Services is supplied with the Converter Library kit, but DECwindows™ non-Motif systems cannot run CDA Run-Time Services V1.0. The Converter Library installation procedure will not update your CDA Base Services software if you are running a pre-Motif version of DECwindows. Digital recommends that you upgrade your system to a Motif® version of DECwindows. The CDA Converter Library V2.2 is not warranted to run under older versions of CDA, but if you have a pre-Motif version of DECwindows and cannot upgrade, it is possible the performance of the CDA Converter Library V2.2 will be adequate to your needs.

1.2.1 CDA Run-Time Services V1.0 Kit Included with the CDA Converter Library

The Converter Library V2.2 installation kit includes the CDA Run-Time Services V1.0 kit for the CDA base components such as the CDA Viewer and the CDA toolkit. The Converter Library V2.2 installation procedure

automatically installs the CDA Run-Time Services kit if your CDA base software needs to be updated.[1]

The CDA Run-Time Services V1.0 kit is packaged as a layered product, and is equivalent to the CDA Base Services software installed with your OpenVMS Motif software. The CDA Run-Time Services update ensures that the latest CDA Base Services product is available on your system.

Note

Since your system may have an existing version of the CDA base software, you will not need to make adjustments to quotas as a result of the installation of the new CDA Run-Time Services V1.0 kit. For more information about the CDA Run-Time Services installation requirements, see the *CDA Run-Time Installation Guide for VMS* which is available from the following location:

```
SYS$HELP:CDART010_INS_GUIDE.TXT
```

This manual contains useful information about the CDA base software files updated with this kit.

Digital recommends that you run the Converter Library V2.2 with this latest version of CDA Base Services software.

1.3 Installation Procedure Requirements

The following sections outline various requirements for installing the CDA Converter Library.

1.3.1 Installation Time

The installation takes approximately 12 minutes to complete, depending on your type of media and your system configuration.

If the CDA Run-Time Services V1.0 is installed, the installation takes approximately 17 minutes to complete.

[1] If you have a non-Motif version of DECwindows currently installed, CDA Run-Time Services V1.0 will not be installed on your system. CDA Run-Time services is not compatible with DECwindows non-Motif systems.

1.3.2 Removing Previous Known Images

None of the converter images are installed using the VMS Install Utility (INSTALL). If you have installed a previous converter image as a known image, ensure that you remove it as a known image before running the installation procedure.

To check that a converter is not INSTALLED, enter the following at the DCL prompt:

```
$ INSTALL LIST converter-name
```

To remove a converter as a known image before running the installation procedure, enter the following at the DCL prompt:

```
$ INSTALL DELETE converter-name
```

1.3.3 Privileges and Disk Space

To install the CDA Converter Library, you must be logged in to an account that has SETPRV or at least the following privileges:

- CMKRNL
- WORLD
- SYSPRV

Note

VMSINSTAL turns off the BYPASS privilege at the start of the installation.

The CDA Converter Library's requirements for free disk storage space are different during installation and after installation. Table 1–2 summarizes the storage requirements.

Note

Most OpenVMS systems will contain a version of the CDA Run-Time Services software. Hence, the disk space requirements listed in Table 1–2 contains the maximum storage requirements for systems that do not contain an existing version of the CDA Run-Time Services software.

Table 1–2 Disk Space Requirements

Kit	Blocks During Installation	Blocks After Installation
CDA Converter Library Version 2.2	28 000	16 500

To determine the number of free disk blocks on the current system disk, enter the following command at the DCL prompt:

```
$ SHOW DEVICE SYS$SYSDEVICE
```

1.3.4 System Parameters

Installing the CDA Converter Library requires certain system parameter settings. Table 1–3 lists the minimum required system parameter values for the installation. Depending on the kinds of programs and applications running at your site, you might need higher values for some settings.

Table 1–3 Minimum Required System Parameter Values

System Parameter	Minimum Value
GBLPAGES[1]	10 000 + 0
GBLPAGFIL	1024
GBLSECTIONS[1]	250 + 0
PQL_DASTLM[2]	24
PQL_DBIOLM[2]	18
PQL_DDIOLM[2]	18
RESHASHTBL	64
SRPCOUNTV	250
VIRTUALPAGECNT	100 000
WSMAX	10 000

[1]The values listed for these system parameters represent the number of free global pages and global sections required for the installation, not the total number you need to run your system and other software.

[2]These dynamic system parameters must be set permanently to values equal to or greater than the values listed. Do not lower these values after the installation.

The following sections show you how to:

- Check system parameter values.

- Calculate values for the GBLPAGES and GBLSECTIONS system parameters.
- Change parameter values with the OpenVMS AUTOGEN command procedure.
- Set dynamic parameters [such as PQL_DASTLM] with the OpenVMS System Generation Utility (SYSGEN).

1.3.4.1 Checking System Parameter Values

To check the values of your system parameters, enter the following command at the DCL prompt to invoke the System Generation Utility (SYSGEN):

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

At the SYSGEN> prompt, enter the SHOW command to display the value of a system parameter. The values displayed should equal or exceed the value of each system parameter listed in Table 1–3. The following example displays the value for the WSMAX system parameter:

```
SYSGEN> SHOW WSMAX
```

After checking the parameters with the SHOW command, enter the EXIT command at the SYSGEN> prompt to return to the DCL level.

1.3.4.2 Calculating the Values for GBLPAGES and GBLSECTIONS

To install and run the CDA Converter Library, you must have sufficient free global pages and global sections. You must first find out how many free global pages and sections you have on your system. Then use AUTOGEN if you need to increase the GBLPAGES and GBLSECTIONS system parameters.

If you are installing the CDA Converter Library on an OpenVMS Version 5.2 system, you can use the WRITE command with the F$GETSYI lexical function to find the number of free global pages and global sections. The following example shows how to get this information at your terminal (the default for SYS$OUTPUT):

```
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLPAGES")
15848
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS")
24
```

If the values displayed by the system are greater than the values in Table 1–3, you do not need to increase the values for these parameters. If the value of free global pages or global sections is less than the value in Table 1–3, you must increase the system parameter setting.

Section 1.3.4.3 describes the procedures for increasing these values using AUTOGEN.

1.3.4.3 Changing System Parameter Values with AUTOGEN

Use the AUTOGEN command procedure to change system parameters. AUTOGEN automatically adjusts values for parameters that are associated with the values you reset manually. To change system parameters with AUTOGEN, edit the following file:

```
SYS$SYSTEM:MODPARAMS.DAT
```

Use an editor to access the file. To change a parameter value listed in this file, delete the current value associated with that parameter and enter the new value.

To add a new parameter, add a line to the file that includes both the name of the parameter and its value. For example:

```
WSMAX = 1024
```

Use ADD_GBLPAGES or ADD_GBLSECTIONS to modify incremental parameters such as GBLPAGES and GBLSECTIONS. The following example increases the global page setting by 2000:

```
ADD_GBLPAGES = 2000
```

Note

When you set the page file quota, do not use a value that exceeds the amount of page file space available on the system.

After you make all your changes, exit from the editor and execute the AUTOGEN procedure to recalculate your system parameters. Enter the following command at the DCL prompt:

```
$ @SYS$UPDATE:AUTOGEN GETDATA REBOOT
```

When you specify REBOOT, AUTOGEN performs an automatic system shutdown and then reboots the system. Any users logged on to the system are immediately disconnected during the shutdown. The automatic reboot puts the new parameter values into effect.

The AUTOGEN Utility automatically adjusts some of the SYSGEN parameters based on the consumption of resources since the last reboot. If you do not want to take advantage of this automatic adjustment, include the NOFEEDBACK qualifier on the AUTOGEN command line.

For more information about using AUTOGEN, see the OpenVMS System Management Subkit.

1.3.4.4 Setting Dynamic System Parameter Values

Use the System Generation Utility (SYSGEN) to set dynamic parameters. Dynamic parameters changed with the SYSGEN WRITE ACTIVE command become active immediately without any need to reboot your system. In fact, rebooting returns dynamic system parameter values to their previous settings.

Once you change dynamic parameter values, you should complete the installation before rebooting the system. After you finish with the installation, you can reset the dynamic parameters to their previous values or let them be reset automatically when you next reboot your system.

The CDA Converter Library requires the dynamic parameter value listed in Table 1–4.

Table 1–4 Required Dynamic Parameter Values

Dynamic Parameter	Value
PQL_DASTLM	24
PQL_DBIOLM	18
PQL_DDIOLM	18

If the dynamic parameter values on your system are less than the values previously listed, use the following series of commands to change the values. This example changes the PQL_DASTLM value to 24.

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> USE ACTIVE
SYSGEN> SET PQL_DASTLM 24
SYSGEN> WRITE ACTIVE
SYSGEN> EXIT
```

1.4 ALL–IN–1 Special Requirements

The following sections contain information about restrictions and requirements specific to ALL–IN–1™ users. The information is structured as follows:

- Installation restrictions for ALL–IN–1
- Known image requirements for ALL–IN–1

1.4.1 Installation Restrictions for ALL–IN–1

The Converter Library V2.2 bundles CDA Run Time V1.0 (equivalent software to Base Services V1.7), therefore the CDAPAT011 patch kit is no longer required. The CDAPAT011 patch kit checks the version number of your current CDA Base Services software, therefore it will not replace CDA Run-Time Services V1.0. You can install CDA Run-Time Services V1.0 if you are in doubt as to how up-to-date your CDA Base Services software is.

Caution

You must not install the CDAPAT011 patch kit after installing the Converter Library V2.2.

1.4.2 Known Image Requirements for ALL–IN–1

ALL–IN–1 is a privileged image, therefore any converters used by ALL–IN–1 must be installed as a known image with privileges using the OpenVMS command, INSTALL. This also applies to the various CDA Base Services images. See Section 3.3.3 for more information about how to install converters as known images.

1.5 Process Account Quotas

The account you use to install the CDA Converter Library must have sufficient quotas to enable you to perform the installation. Table 1–5 summarizes the process quotas required for the installation account.

Table 1–5 Process Account Quotas for the Installing Account

Account Quota	Value
ASTLM	24
BIOLM	18
BYTLM	18 000
DIOLM	18
ENQLM	30
FILLM	20
PRCLM	0

(continued on next page)

Table 1–5 (Cont.) Process Account Quotas for the Installing Account

Account Quota	Value
WSDEF	256[1]

[1]The values for WSEXT and WSQUO must be equal to or greater than the WSDEF value.

User account quotas are stored in the file SYSUAF.DAT. Use the OpenVMS Authorize Utility (AUTHORIZE) to verify and change user account quotas. First set your directory to SYS$SYSTEM and then run AUTHORIZE:

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

At the UAF> prompt, enter the SHOW command with an account name to check a particular account. For example:

```
UAF> SHOW SMITH
```

To change a quota, enter the MODIFY command. The following example changes the FILLM quota for the SMITH account and then exits from the utility:

```
UAF> MODIFY SMITH /FILLM=50
UAF> EXIT
```

After you exit from the utility, the system displays messages indicating whether or not changes were made. Once the changes have been made, you must log out and log in again for the new quotas to take effect.

For more information about modifying account quotas, see the description of the Authorize Utility in the OpenVMS System Management Subkit.

1.6 VMSINSTAL Requirements

When you invoke VMSINSTAL, it checks the following:

- Whether you have set your default device and directory to SYS$UPDATE
- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether DECnet is running
- Whether any users are logged in to the system

Note that VMSINSTAL requires that the installation account have a minimum of the following quotas:

ASTLM = 24
BIOLM = 18
BYTLM = 18 000
DIOLM = 18
ENQLM = 30
FILLM = 20

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter YES to continue. To stop the installation process and correct the situation, enter NO or press RETURN. Then correct the problem and restart the installation.

1.7 Backing up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you do a system disk backup before installing any software.

Use the backup procedures that are established at your site. For details on performing a system disk backup, see the section on the Backup Utility in the OpenVMS System Management Subkit.

1.8 CDA Converter Library Requirements

The CDA Converter Library installation procedure checks that the following software is installed:

- DECimage Application Services Version 2.0 or Version 3.0
- DEC CDA Run-Time Services V1.0, (which is equivalent to CDA Base Services Version 1.7)

2

Installing the CDA Converter Library on OpenVMS

This chapter explains how to install the CDA Converter Library on OpenVMS systems. Section 2.1 contains a step-by-step description of the installation procedure. This chapter contains the following:

- The installation procedure
- Error recovery

2.1 The Installation Procedure

The CDA Converter Library installation procedure consists of a series of questions and informational messages. See Appendix A for a sample installation.

To abort 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.

To install the CDA Converter Library, do the following:

1. **Invoke VMSINSTAL**

   @SYS$UPDATE:VMSINSTAL saveset-name device-name OPTIONS N

   To start the installation, invoke the VMSINSTAL command procedure from a privileged account, such as the SYSTEM account. VMSINSTAL is in the SYS$UPDATE directory. The following list defines the elements of the VMSINSTAL command procedure:

   saveset-name
   The installation name for the component. For the CDA Converter Library, use the following installation name:

   ```
   CDACVTLIB022
   ```

device-name
The name of the device on which you plan to mount the media. For example, MTA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use the console drive, you should replace any media you removed once the installation is complete.

OPTIONS N
An optional parameter that indicates you want to see the question on release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation in case they contain additional information about the installation. If you are restarting the installation and have already reviewed the release notes, you do not need to specify OPTIONS N.

There are several other options as follows that you can select when you invoke VMSINSTAL:

- Auto_answer option (A): Initially creates a file that contains your answers to VMSINSTAL questions and prompts. You can then use the option (and the answer file) to save time during a reinstallation (typically after upgrading your system).
- Get save set option (G): Allows you to store product save sets temporarily on a magnetic tape or in a disk directory.
- File log option (L): Logs all activity to the terminal during installation.
- Alternate root option (R): Allows you to install the product to a system root other than that of the running system.

See the OpenVMS documentation on software installation in the OpenVMS System Management Subkit for detailed information about these options. If you specify more than one option, separate the options with commas (for example, OPTIONS A, N).

The following example invokes VMSINSTAL to install the CDA Converter Library from tape drive MTA0: and shows the system response. This example uses the OPTIONS N release note parameter.

```
$ @SYS$UPDATE:VMSINSTAL CDACVTLIB022 MTA0: OPTIONS N

     VAX/VMS Software Product Installation Procedure V5.4-3

It is 01-Aug-1993 at 10:30.)
Enter a question mark (?) at any time for help.
```

If you do not supply either the product name or the device name, VMSINSTAL prompts you for this information later in the installation procedure. VMSINSTAL does not prompt you for any options, so be sure to include OPTIONS N on the VMSINSTAL command line to access the release notes during the installation.

If you are installing on OpenVMS Version 5.2 or higher, VMSINSTAL does not check the DECnet status. You can install the CDA Converter Library while DECnet is up and running.

2. **Confirm system backup**

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

VMSINSTAL asks if you are satisfied with your system backup. You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press RETURN. Otherwise, enter NO to discontinue the installation. After you back up your system disk, you can restart the installation.

3. **Mount the media**

```
    Please mount the first volume of the set on MTA0:.
    * Are you ready? YES
    %MOUNT-I-MOUNTED, CDACVTLIB MOUNTED ON _$$MTA0:  (NODE 1)
   The following products will be processed:

 CDACVTLIB V2.2

     Beginning installation of CDACVTLIB V2.2 at 20:01

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

You should now mount the first distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question. VMSINSTAL then asks you if you are ready to continue with the installation.

If you respond YES to indicate that you are ready, VMSINSTAL displays a message that the media containing the CDA Converter Library has been mounted on the specified device and that the installation has begun.

If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the ''Are you ready?'' question. To abort the installation for other reasons, press Ctrl/*y*.

4. **Mount additional media volumes**

```
%BACKUP-I-READYREAD, mount volume 2 on _MTA0: for reading

Enter "YES" when ready:
```

If your installation kit contains more than one volume, VMSINSTAL prompts you to mount the additional volumes and then asks you to indicate that you are ready for the installation to proceed.

5. **Select a release notes option**

```
Release notes included with this kit are always copied to SYS$HELP.

Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]:
```

If you specified OPTIONS N when you invoked VMSINSTAL, you are now asked to choose one of the four options for reviewing the release notes.

If you select option 1, VMSINSTAL displays the release notes immediately on the console terminal. You can terminate the display at any time by pressing Ctrl/*c*.

If you select option 2, VMSINSTAL prompts you for the name of the print queue that you want to use:

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

You can press RETURN to send the file to the default output print device or you can enter another queue name.

If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

Select option 4 if you have already reviewed the release notes and are restarting the installation.

Next, VMSINSTAL displays the following question:

```
* Do you want to continue the installation [N]?: YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been
successfully moved to SYS$HELP.
```

To continue the installation, enter YES. Otherwise, press RETURN. In either case, the release notes are copied to a file in the SYS$HELP

directory:

```
SYS$HELP:CDACVTLIB022.RELEASE_NOTES
```

Note

The name of the release notes file installed by VMSINSTAL consists of the current product name and version number. Do not delete release notes for previous versions of the CDA Converter Library.

6. **Purge files**

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

You have the option to purge files from previous versions of the CDA Converter Library that are superseded by this installation. Purging is recommended; however, if you need to keep files from the previous version, enter NO in response to the question.

Note

If you choose to purge the files, the Installation Verification Procedure (IVP) will not be initiated. See Section 3.2 for more information.

7. **Choose the Installation Verification Procedure (IVP) option**

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

The installation procedure now asks if you want to run the IVP. The IVP for the CDA Converter Library checks to be sure that the installation is successful. It is recommended that you run the IVP.

After the CDA Converter Library is installed, you can run the IVP independently to verify that the software is available on your system. You might need to run the IVP after a system failure to make sure that users can access the CDA Converter Library.

8. **Respond to license registration queries**

```
Product:       CDA-CONVERTER-LIBRARY
Producer:      DEC
Version:       2.2
Release Date:  01-Jan-1994

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

The installation procedure displays license information about your product

and then asks if you have registered and loaded your Product Authorization Key (PAK).

If you have not registered and loaded your PAK, you must answer NO to this question. You must register and load your PAK to successfully complete the installation. If you have not done so, you should stop the installation, register and load your PAK, and then restart the installation.

9. **Read informational messages**

   At this point, the installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you chose to have files purged, that work is done now. The following messages are displayed:

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

   See Appendix B for a complete list of all the files that are installed on your system when you install the CDA Converter Library.

10. **Observe the Installation Verification Procedure (IVP)**

    If you chose to run the IVP, VMSINSTAL runs it at this point. When the IVP runs successfully, you see the following display:

    ```
    CDA Converter Library V2.2 IVP completed successfully.
    ```

11. **End the installation procedure**

    ```
    Installation of CDACVTLIB V2.2 completed at 10:30

    VMSINSTAL procedure done at 10:30
    ```

    The previous messages indicate that the entire installation procedure is complete.

    You can now log out of the privileged account:

    ```
    $ LOGOUT
    SYSTEM     logged out at 01-Jan-1994 10:30:25.10
    ```

Note

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

2.2 Error Recovery

If errors occur during the installation itself or when the Installation Verification Procedure (IVP) is running, VMSINSTAL displays failure messages. If the installation fails, you see the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of CDACVTLIB
V2.2 has failed.
```

If the IVP fails, you see these messages:

```
The CVTLIB V2.2 Installation Verification Procedure failed.

%VMSINSTAL-E-IVPFAIL, The IVP for CDACVTLIB V2.2 has failed.
```

Errors can occur during the installation if any of the following conditions exist:

- The operating system version is incorrect.
- A prerequisite software version is incorrect.
- Quotas necessary for successful installation are insufficient.
- System parameter values for successful installation are insufficient.
- The OpenVMS help library is currently in use.
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the OpenVMS documentation on system messages, recovery procedures, and software installation. If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. See Section 1.3 for more information about the CDA Converter Library installation requirements.

3

After Installing the CDA Converter Library on OpenVMS

This chapter explains what to do after installing the CDA Converter Library on OpenVMS systems. This chapter contains the following:

- After installing the CDA Converter Library
- Running the installation verification procedure separately
- Setting user account requirements
- Determining and reporting problems

3.1 After Installing the CDA Converter Library

The following tasks take place after installing the CDA Converter Library:

- Running the Installation Verification Procedure separately.
- Editing the system startup and shutdown files.
- Modifying system parameter settings.
- Making the product usable on a VAXcluster.
- Setting user account quotas.
- Tailoring your system.
- Enhancing performance.
- Reporting problems.

3.2 Running the Installation Verification Procedure Separately

The Installation Verification Procedure (IVP) is usually run during installation. If you want to run the IVP separately to ensure the integrity of installed files in the event of system problems occurring, execute the following command procedure:

```
$ @SYS$COMMON:[SYS$TEST.CDACVTLIB]CDACVTLIB$IVP
```

Note

If you choose to purge the files, the Installation Verification Procedure (IVP) will not be initiated. See Section 2.1 for more information.

3.3 Setting User Account Requirements

To work with the CDA Converter Library, user accounts on your system must have certain privileges and quotas. The following sections contain information about these requirements.

3.3.1 Privileges

To use the CDA Converter Library, each account must have at least the TMPMBX and NETMBX privileges. Use the OpenVMS Authorize Utility to determine whether users have the privileges they require.

3.3.2 User Account Quotas

You must make sure that the appropriate user accounts have sufficient quotas to be able to use the CDA Converter Library. Table 3–1 summarizes the required user account quotas.

Table 3–1 User Account Quotas for Using the CDA Converter Library

Account Quota	Value
ASTLM	24
BIOLM	18
BYTLM	18 000

(continued on next page)

Table 3–1 (Cont.) User Account Quotas for Using the CDA Converter Library

Account Quota	Value
DIOLM	18
ENQLM	30
FILLM	20
PRCLM	0
WSDEF	256[1]

[1]The values for WSEXT and WSQUO must be equal to or greater than the WSDEF value.

See Section 1.5 for a description of how to verify and change account quotas.

3.3.3 Installing the CDA Converter Library as a Known Image

If you expect the CDA Converter Library to be used extensively on your system, you can reduce the system overhead and memory requirements by installing it as a known image. To install the CDA Converter Library as a shared image on a system that is currently running, use the OpenVMS Install Utility (INSTALL). It is recommended that you install the CDA Converter Library as known on a system that has been rebooted recently because the available space in the global page table is less likely to be fragmented.

To install the CDA Converter Library as a known image, first, determine the number of available global pages and global sections on your system. See Section 1.3.4.2 for information about how to verify and modify the number of global pages and global sections. Table 1–3 contains the guidelines for setting these parameters.

Once you have reset the system parameter values, invoke the OpenVMS Install Utility from a privileged account and then install the CDA Converter Library as a known image:

```
$ INSTALL
INSTALL> ADD/LOG SYS$SHARE:DDIF$READ_AFS.EXE /OPEN /SHARED
INSTALL> ADD/LOG SYS$SHARE:DDIF$WRITE_AFS.EXE /OPEN /SHARED
INSTALL> EXIT
```

See Appendix B for a complete list of all the files installed when you install the CDA Converter Library.

When you install the CDA Converter Library as a known image you need to increase the global pages and global sections parameters. See Section 1.3.4 for information about changing these parameters.

3.4 Determining and Reporting Problems

If you encounter a problem while using the CDA Converter Library, report it to Digital. Depending on the nature of the problem and the type of support you have, you can take one of the following actions:

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).
- Fill out and submit a Reader's Comments form if the problem has to do with the CDA Converter Library documentation. There are Reader's Comments forms at the back of each manual. Use the form from the manual in which you found the error. Include the section and page number.

Review the Software Product Description (SPD) and Warranty Addendum for an explanation of warranty. If you encounter a problem during the warranty period, report the problem as indicated above or follow alternate instructions provided by Digital for reporting SPD nonconformance problems.

A

Sample Installation on OpenVMS

This section contains a sample installation of the CDA Converter Library on OpenVMS systems. This sample was run on a system that had no previous version of the CDA Converter Library installed. Depending on which layered products you have on your system, you might see additional messages and questions when you perform your installation.

The sample installation assumes that DECnet has been shut down, that no users are logged on to your system, and that OPTIONS N is specified to print the release notes. The Installation Verification Procedure (IVP) runs at the end of the installation.

Example A–1 Sample CDA Converter Library Installation Procedure

```
@sys$update:vmsinstal

 VAX/VMS Software Product Installation Procedure V5.5-2

It is 14-DEC-1993 at 22:02.

Enter a question mark (?) at any time for help.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
 _FTA78:
 VTA21
 _RTA19:
* Do you want to continue anyway [NO]? y

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

* Where will the distribution volumes be mounted: KITS$:

Enter the products to be processed from the first distribution volume set.
* Products: CDACVTLIB
```

(continued on next page)

Sample Installation on OpenVMS

Example A–1 (Cont.) Sample CDA Converter Library Installation Procedure

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

The following products will be processed:
  CDACVTLIB V2.2

 Beginning installation of CDACVTLIB V2.2 at 22:04

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

 Note: None of the converter images are installed using the
  VMS Install Utility (INSTALL). If any converter fails
  the IVP ensure that converter is not INSTALLED by typing
  the Open VMScommand
   $INSTALL LIST CONVERTER-NAME

  If any converter is INSTALLED it is suggested that it be removed
  by typing the OpenVMS command
   $INSTALL DELETE CONVERTER-NAME
  before this installation. See the installation guide for more
  information.


When using DECwindows Mail for versions up to and including
DECwindows Motif V1.0, you may experience problems when extracting
messages.  This is addressed in later releases of DECwindows Mail.
The problem may be eliminated by deleting or renaming converters such
that less than 25 CDA converters are in SYS$SHARE.

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

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


    To complete the installation on a VAX 6000
    series system will take approximately:

        10 minutes to install
        7 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]?

%CDACVTLIB-I-MOTIF, DECwindows Motif is installed on this system
-CDACVTLIB-I-MOTIF, Image converters for DEC Image Application
-CDACVTLIB-I-MOTIF, Services V3.0 and later will be installed.  Converters involved are:
-CDACVTLIB-I-MOTIF,  TIFF,MACPAINT

  Installing the CDA Run Times
```

(continued on next page)

Example A–1 (Cont.) Sample CDA Converter Library Installation Procedure

```
CDA Base Services of equal or newer version already installed.
CDA-RT installation will not be performed.
%VMSINSTAL-W-NOFILE, File GKSRTLIB.EXE  does not exist.
%CDACVTLIB-NOGKSRT-W, GKS Runtime not found on this system
-CDACVTLIB-NOGKSRT-W, This is a prerequisite for the GRAPHICS converter

        Product:      CDA-CONVERTER-LIBRARY
        Producer:     DEC
        Version:      V2.2
        Release Date: 1-SEP-1993

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

WRHS$:[I14Y.PRODUCTS.CV22.V22_SSB.KITBLD]
%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSTEST.CDACVTLIB].
%CREATE-I-EXISTS, VMI$ROOT:[SYSTEST.CDACVTLIB] already exists
A messages text file, CDACVTLIB$MESSAGES.TXT, is installed.
in SYS$HELP.

Example Options files for converters are moved to SYS$EXAMPLES:

Adding CDA_CONVERTERS help topic to the VMS HELP facility

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
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ALL RIGHTS RESERVED.

Beginning the CDA Converter Library V2.2 Installation Verification Procedure


Starting verification of the WORDP front end


Starting verification of the RTF front end


Starting verification of the RNO front end


Starting verification of the WORD5 front end


Starting verification of the GIF front end


Starting verification of the TIFF front end
```

(continued on next page)

Example A–1 (Cont.) Sample CDA Converter Library Installation Procedure

```
Starting verification of the WK1 front end

%TCV-I-STARTCONVERSION, WK1 Front End V2.2 starting at 14-December-1993 22:12:01

%TCV-I-ENDCONVERSION, WK1 Front End V2.2 ending at 14-December-1993 22:12:02

Starting verification of the WK3 front end

%TCV-I-STARTCONVERSION, WK3 Front End V2.2 starting at 14-December-1993 22:12:03

%TCV-I-ENDCONVERSION, WK3 Front End V2.2 ending at 14-December-1993 22:12:04

Starting verification of the ASCII_TABULAR front end

%TCV-I-STARTCONVERSION, ASCII Tabular front end V2.2 starting at 14-December-1993 22:12:05

%TCV-I-ENDCONVERSION, ASCII Tabular front end V2.2 ending at 14-December-1993 22:12:06

Starting verification of the ASCII_FIELD front end

%TCV-I-STARTCONVERSION, ASCII Field front end V2.2 starting at 14-December-1993 22:12:07

%TCV-I-ENDCONVERSION, ASCII Field front end V2.2 ending at 14-December-1993 22:12:08

Starting verification of the CALCGRD front end

%TCV-I-STARTCONVERSION, CALCGRD front end V2.2 starting at 14-December-1993 22:12:09

%TCFB-W-CGRDFE_EVALORD, GLOBAL MATH EVALUATION-ORDER setting lost

%TCFB-W-CGRDFE_TABORD, GLOBAL TAB-ORDER setting lost

%TCFB-W-CGRDFE_SCRLOST, GLOBAL MODE SCREEN setting lost

%TCFB-W-CGRDFE_ZEROBLK, FORMAT BOX (ZERO-IF-BLANK/UNDEFINED-IF-BLANK) settings are lost for every box in the CA

%TCV-I-ENDCONVERSION, CALCGRD front end V2.2 ending at 14-December-1993 22:12:10

Starting verification of the DIF front end
```

(continued on next page)

Example A–1 (Cont.) Sample CDA Converter Library Installation Procedure

```
%TCV-I-STARTCONVERSION, DIF front end V2.2 starting at 14-December-1993 22:12:11

%TCV-I-ENDCONVERSION, DIF front end V2.2 ending at 14-December-1993 22:12:12

Starting verification of the SGML front end

%SGML-I-CALLOPEN, CDACVTLIB$TEST:CVT$IVP_SGML.SGML opened

%SGML-I-CALLSUCCESS, Document successfully parsed

Starting verification of the AFS front end

%AFS-I-NOSTRUCT, Line 1 : Structure information either not available or missing -- full validation will not

Starting verification of the DX front end

%DXF-S-LOG_CREATED, The log file SYS$COMMON:[SYSTEST.CDACVTLIB]CVT$IVP_DX.LOG;2 has been created.

Starting verification of the MACPAINT front end

MACP-E-CFAIL, Error creating log file

Starting verification of the MACWRITE front end

Starting verification of the PICT front end

Starting verification of the ROFF front end

Starting verification of the WPL front end

%CNV-S-LOG-CREATED, The log file SYS$COMMON:[SYSTEST.CDACVTLIB]CVT$IVP_WPL.LOG;1 has been created.

Starting verification of the CGM front end

Starting verification of the DCA front end
Starting verification of the WORDP back end
Starting verification of the RTF back end
```

(continued on next page)

Example A–1 (Cont.) Sample CDA Converter Library Installation Procedure

```
Starting verification of the WORD5 back end
Starting verification of the SGML back end

%SDC-I-DIFMINVER, DDIF document minor version (4 ) differs from minor version on which the converter is based (

%SGML-I-CALLOPEN, CDACVTLIB$TEST:CVT$IVP_RES_SGML.SGML opened

%SGML-I-PROOPENTDEF, line 49: Opening external definition document "SYS$COMMON:[SYSTEST.CDACVTLIB]CVT$IVP_RES_S

%SGML-I-PROCLSTDEF, line (49)87: Closing external definition document "SYS$COMMON:[SYSTEST.CDACVTLIB]CVT$IVP_RE

%SGML-I-CALLSUCCESS, Document successfully parsed
Starting verification of the AFS back end
Starting verification of the DX back end

%DXB-I-ERROR-LOG, Errors are logged in SYS$COMMON:[SYSTEST.CDACVTLIB]CVT$IVP_RES_DX.LOG;2.
Starting verification of the MACPAINT back end

MACP-E-CFAIL, Error creating log file
Starting verification of the MACWRITE back end
Starting verification of the TIFF back end
Starting verification of the WK1 back end

%TCV-I-STARTCONVERSION, WK1 back end V2.2 starting at 14-December-1993 22:13:30

%TCV-I-ENDCONVERSION, WK1 back end V2.2 ending at 14-December-1993 22:13:31
Starting verification of the WK3 back end

%TCV-I-STARTCONVERSION, WK3 back end V2.2 starting at 14-December-1993 22:13:33

%TCBB-W-WK3BE_SCLINTFLT, Scaled integer at (column 1, row 2) converted to float in Lotus 1-2-3

%TCV-I-ENDCONVERSION, WK3 back end V2.2 ending at 14-December-1993 22:13:34
Starting verification of the WPL back end

%CNV-S-LOG-CREATED, The log file SYS$COMMON:[SYSTEST.CDACVTLIB]CVT$IVP_RES_WPL.LOG;1 has been created.
Starting verification of the CGM back end

Starting verification of the ASCII_TABULAR back end
```

(continued on next page)

Example A–1 (Cont.) Sample CDA Converter Library Installation Procedure

```
%TCV-I-STARTCONVERSION, ASCII Tabular Back End V2.2 starting at 14-December-1993 22:16:22

%TCV-I-ENDCONVERSION, ASCII Tabular Back End V2.2 ending at 14-December-1993 22:16:23

Starting verification of the PICT back end

PBE-W-ERRLOG Conversion messages are logged in CDACVTLIB$TEST:CVT$IVP_RES_PICT.LOG

Starting verification of the DCA back end

CDA Converter Library V2.2 IVP completed successfully.
 Installation of CDACVTLIB V2.2 completed at 22:16

Enter the products to be processed from the next distribution volume set.
* Products:

 VMSINSTAL procedure done at 22:17
```

B

Files Installed on OpenVMS

The CDA Converter Library installation procedure installs a number of files on your system and defines some logical names. Section B.1 lists the files installed when the CDA Converter Library is installed.

Section B.2 lists the files that are installed on your system when the CDA Run-Time Services sample options files are installed.

B.1 File Names Created when the CDA Converter Library is Installed.

Table B–1 contains the names of all files and directories created on your system when the CDA Converter Library is installed.

Table B–1 CDA Converter Library Directories and File Names

Directory	File	Description
SYS$COMMON: [SYSHLP]	CDACVTLIB022.RELEASE_NOTES	CDA Converter Library release notes
	CDACVTLIB$MESSAGES.TXT	CDA Converter Library Conversion Messages Guide (text file)
SYS$COMMON: [SYSTEST.CDACVTLIB]	AFSCVTIVP_AFS.DDIF	Installation Verification Procedure (IVP) files
	CVT$IVP_AFS.AFS	
	CVT$IVP_ASCII_FIELD.ASCII_FIELD	

(continued on next page)

Files Installed on OpenVMS
B.1 File Names Created when the CDA Converter Library is Installed.

Table B–1 (Cont.) CDA Converter Library Directories and File Names

Directory	File	Description
	CVT$IVP_ASCII_FIELD.DEF	
	CVT$IVP_ASCII_TABULAR.ASCII_TABULAR	
	CVT$IVP_CALCGRD.CALCGRD	
	CVT$IVP_CGM.CGM	
	CVT$IVP_DCA.DCA	
	CVT$IVP_DIF.DIF	
	CVT$IVP_DX.DX	
	CVT$IVP_GRAPHICS.GRAPHICS	
	CVT$IVP_DIF.GIF	
	CVT$IVP_MACPAINT.MACPAINT	
	CVT$IVP_MACWRITE.MACWRITE	
	CVT$IVP_PICT.PICT	
	CVT$IVP_RNO.RNO	
	CVT$IVP_ROFF.ROFF	
	CVT$IVP_RTF.RTF	
	CVT$IVP_SGML.SGML	
	CVT$IVP_TIFF.TIFF	
	CVT$IVP_WK1.WK1	
	CVT$IVP_WK3.WK3	
	CVT$IVP_WORD5.WORD5	
	CVT$IVP_WORDP.WORDP	
	CVT$IVP_WPL.WPL	
	CDACVTLIB$IVP.COM	IVP command files
	CDACVTLIB$CONV_NAMES.COM	
SYS$COMMON: [SYSMSG]	CONV_MSG.DAT	WPL message file

(continued on next page)

Table B–1 (Cont.) CDA Converter Library Directories and File Names

Directory	File	Description
SYS$COMMON: [CDA$LIBRARY]	DX_COUR.DOC_STYLE	Style files
	DX_GUIDE.DOC_STYLE	
	DX_HELV.DOC_STYLE	
	DX_SYCO_JUSTIFIED_TIMES_12PT.DOC_ STYLE	
	DX_SYCO_LEFT_COURIER_10PT.DOC_STYLE	
	DX_TIMES.DOC_STYLE	
SYS$COMMON: [SYSHLP.EXAMPLES]	DDIF$READ_ASCII_FIELD.DEF	Sample definition files
	DDIF$READ_ASCII_FIELD.FIELD	
	DDIF$READ_ASCII_TABULAR.DEF	
	DDIF$READ_ASCII_TABULAR.TAB	
SYS$COMMON: [SYSHLP.EXAMPLES]	EXAMPLE_READ_AFS.CDA$OPTIONS	Sample options files
	EXAMPLE_ASCII_TABULAR.CDA$OPTIONS	
	EXAMPLE_READ_ASCII_FIELD.CDA$OPTIONS	
	EXAMPLE_READ_ASCII_TABULAR.CDA$OPTIONS	
	EXAMPLE_READ_CALCGRD.CDA$OPTIONS	
	EXAMPLE_READ_CGM.CDA$OPTIONS	
	EXAMPLE_READ_DCA.CDA$OPTIONS	
	EXAMPLE_READ_DIF.CDA$OPTIONS	
	EXAMPLE_READ_DX.CDA$OPTIONS	
	EXAMPLE_READ_GIF.CDA$OPTIONS	
	EXAMPLE_READ_MACPAINT.CDA$OPTIONS	
	EXAMPLE_READ_MACWRITE.CDA$OPTIONS	
	EXAMPLE_READ_PICT.CDA$OPTIONS	
	EXAMPLE_READ_RNO.CDA$OPTIONS	
	EXAMPLE_READ_ROFF.CDA$OPTIONS	

(continued on next page)

Table B–1 (Cont.) CDA Converter Library Directories and File Names

Directory	File	Description
	EXAMPLE_READ_ROFF_MAN.CDA$OPTIONS	
	EXAMPLE_READ_ROFF_ME.CDA$OPTIONS	
	EXAMPLE_READ_ROFF_MM.CDA$OPTIONS	
	EXAMPLE_READ_ROFF_MS.CDA$OPTIONS	
	EXAMPLE_READ_ROFF_MU.CDA$OPTIONS	
	EXAMPLE_READ_RTF.CDA$OPTIONS	
	EXAMPLE_READ_SGML.CDA$OPTIONS	
	EXAMPLE_READ_TIFF.CDA$OPTIONS	
	EXAMPLE_READ_WK1.CDA$OPTIONS	
	EXAMPLE_READ_WK3.CDA$OPTIONS	
	EXAMPLE_READ_WORD5.CDA$OPTIONS	
	EXAMPLE_READ_WORD5_FONTMAP.CDA$OPTIONS	
	EXAMPLE_READ_WORDP.CDA$OPTIONS	
	EXAMPLE_READ_WPL.CDA$OPTIONS	
	EXAMPLE_WRITE_AFS.CDA$OPTIONS	
	EXAMPLE_WRITE_ASCII_TABULAR.CDA$OPTIONS	
	EXAMPLE_WRITE_CGM.CDA$OPTIONS	
	EXAMPLE_WRITE_DCA.CDA$OPTIONS	
	EXAMPLE_WRITE_DX.CDA$OPTIONS	
	EXAMPLE_WRITE_GRAPHICS.CDA$OPTIONS	
	EXAMPLE_WRITE_MACPAINT.CDA$OPTIONS	
	EXAMPLE_WRITE_MACWRITE.CDA$OPTIONS	
	EXAMPLE_WRITE_PICT.CDA$OPTIONS	
	EXAMPLE_WRITE_RTF.CDA$OPTIONS	
	EXAMPLE_WRITE_SGML.CDA$OPTIONS	
	EXAMPLE_WRITE_TIFF.CDA$OPTIONS	
	EXAMPLE_WRITE_WK1.CDA$OPTIONS	
	EXAMPLE_WRITE_WK3.CDA$OPTIONS	
	EXAMPLE_WRITE_WORD5.CDA$OPTIONS	

(continued on next page)

Table B–1 (Cont.) CDA Converter Library Directories and File Names

Directory	File	Description
	EXAMPLE_WRITE_WORDP.CDA$OPTIONS	
	EXAMPLE_WRITE_WPL.CDA$OPTIONS	
SYS$COMMON: [SYSLIB]	ROFF_MAN.MAP	roff mapping files
	ROFF_ME.MAP	
	ROFF_MM.MAP	
	ROFF_MS.MAP	
	ROFF_MU.MAP	
SYS$COMMON: [CDA$LIBRARY]	ROFF_MAN.DOC_STYLE	roff style files
	ROFF_ME.DOC_STYLE	
	ROFF_MM.DOC_STYLE	
	ROFF_MS.DOC_STYLE	
	ROFF_MU8.DOC_STYLE	
	SDC$SAMPLE.DOC_STYLE	
SYS$COMMON: [SYSLIB]	DDIF$READ_AFS.EXE	Converter executable files
	DDIF$READ_CGM.EXE	
	DDIF$READ_DCA.EXE	
	DDIF$READ_DX.EXE	
	DDIF$READ_GIF.EXE	
	DDIF$READ_MACPAINT.EXE	
	DDIF$READ_MACWRITE.EXE	
	DDIF$READ_PICT.EXE	
	DDIF$READ_RNO.EXE	
	DDIF$READ_ROFF.EXE	
	DDIF$READ_RTF.EXE	

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Table B–1 (Cont.) CDA Converter Library Directories and File Names

Directory	File	Description
	DDIF$READ_SGML.EXE	
	DDIF$READ_TIFF.EXE	
	DDIF$READ_WORD5.EXE	
	DDIF$READ_WORDP.EXE	
	DDIF$READ_WPL.EXE	
	DDIF$WRITE_AFS.EXE	
	DDIF$WRITE_CGM.EXE	
	DDIF$WRITE_DCA.EXE	
	DDIF$WRITE_DX.EXE	
	DDIF$WRITE_GRAPHICS.EXE	
	DDIF$WRITE_MACPAINT.EXE	
	DDIF$WRITE_MACWRITE.EXE	
	DDIF$WRITE_PICT.EXE	
	DDIF$WRITE_RTF.EXE	
	DDIF$WRITE_SGML.EXE	
	DDIF$WRITE_TIFF.EXE	
	DDIF$WRITE_WORD5.EXE	
	DDIF$WRITE_WORDP.EXE	
	DDIF$WRITE_WPL.EXE	
	SGML$PARSE.EXE	
	DTIF$READ_ASCII_FIELD.EXE	
	DTIF$READ_ASCII_TABULAR.EXE	
	DTIF$READ_CALCGRD.EXE	
	DTIF$READ_DIF.EXE	
	DTIF$READ_WK1.EXE	
	DTIF$READ_WK3.EXE	
	DTIF$WRITE_WK1.EXE	
	DTIF$WRITE_ASCII_TABULAR.EXE	
	DTIF$WRITE_WK3.EXE	

(continued on next page)

Table B–1 (Cont.) CDA Converter Library Directories and File Names

Directory	File	Description
SYS$COMMON: [SYSMSG]	DDIF$READ_CGM_MESSAGES.EXE	Executable messages files
	DDIF$WRITE_CGM_MESSAGES.EXE	

B.2 Sample Options File Names Created when the CDA Run-Time Services is Installed.

Table B–2 contains the names of all the sample options files and directories that are created on your system when the CDA Run-Time Services is installed.

Note

For more information about the CDA Run-Time Services installation requirements, see the *CDA Run-Time Installation Guide for VMS* which is available from the following location:

```
SYS$HELP:CDART010_INS_GUIDE.TXT
```

This manual contains useful information about the CDA base software files updated with this kit.

Table B–2 Directories and File Names for CDA Run-Time Services Sample Options

Directory	File	Description
SYS$COMMON: [SYSHLP.EXAMPLES]	EXAMPLE_DTIF_TO_DDIF.CDA$OPTIONS	Sample options files
	EXAMPLE_READ_DDIF.CDA$OPTIONS	
	EXAMPLE_READ_DTIF.CDA$OPTIONS	
	EXAMPLE_READ_TEXT.CDA$OPTIONS	
	EXAMPLE_WRITE_ANALYSIS.CDA$OPTIONS	
	EXAMPLE_WRITE_DDIF.CDA$OPTIONS	
	EXAMPLE_WRITE_DTIF.CDA$OPTIONS	

(continued on next page)

Table B–2 (Cont.) Directories and File Names for CDA Run-Time Services Sample Options

Directory	File	Description
	EXAMPLE_WRITE_PS.CDA$OPTIONS	
	EXAMPLE_WRITE_TEXT.CDA$OPTIONS	

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