DECnet/SNA VMS DDXF Installation and Problem Determination Guide

Order Number: AA-EE69C-TE

This document tells the user how to install DECnet/SNA VMS DDXF. It also tells the user how to solve problems that might arise in the day-to-day operation of DDXF.

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Operating System and Version: VMS Version 4.6 or later

Software Version: DECnet/SNA VMS DDXF Version 1.4

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The postpaid READER'S COMMENTS form on the last page of this document requests the user's critical evaluation to assist in preparing future documentation.

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Preface

DECnet/SNA VMS DISOSS Document Exchange Facility (DDXF) is a layered product that enables its users within a DECnet network or a VMS/SNA environment to participate in an IBM office-system network. The IBM office-system network is a vehicle for document library and distribution services within an IBM Systems Network Architecture environment. Access to the IBM/SNA network is through one of the following transport products: DECnet/SNA Gateway-CT, DECnet/SNA Gateway-ST, DECnet/SNA Gateway V1.5, or VMS/SNA.

The *DECnet/SNA VMS DDXF Installation and Problem Determination Guide* tells you how to install the DDXF software. It also tells you how to solve problems that might arise while using DDXF.

Intended Audience

This manual is for system managers responsible for planning and installing the DDXF software.

Document Structure

This document has the following sections:

- Chapter 1, Installing DECnet/SNA VMS DDXF, tells how to install the DDXF software by using the VMSINSTAL procedure.
- Chapter 2, Ensuring that DDXF Works Properly, describes how to verify that the communications link to IBM DISOSS is working properly.

- Chapter 3, Solving DDXF Problems, tells how to solve problems that might occur during the day-to-day operation of DDXF. It supplements the problem determination guide for the product you are using to access the IBM environment.

Associated Documents

- *DECnet/SNA VMS DDXF User's Guide*
- *DECnet/SNA VMS DDXF Reference Card*
- *DECnet/SNA Gateway Problem Determination Guide*
- *DECnet/SNA Gateway-ST Problem Determination Guide*
- *DECnet/SNA Gateway-CT Problem Determination Guide*
- *VMS/SNA Problem Determination Guide*
- *DECnet/SNA Guide to IBM Parameters*
- *DECnet/SNA Gateway-CT Guide to IBM Parameters*
- *DECnet/SNA Gateway-ST Guide to IBM Parameters*
- *VMS Install Utility Manual*

Conventions

This manual uses the following conventions:

Conventions	Meaning
UPPERCASE LETTERS	Represent constant values or symbols. Code these exactly as they are specified.
lowercase italics	Represent variables for which you must supply a value.
[ ]	Square brackets enclose optional values. Do not type the brackets in the line of code.
( )	Parentheses enclose group values that must be specified for a parameter. These values must be typed in the line of code in the indicated order. Parentheses must be typed where they appear in a line of code.
`Special Type`	Examples of system input and output are printed in `special type`. System output is in black; user input is in red.
RET	Unless otherwise specified, every command line is terminated by pressing RET.
CTRL/*x*	Control characters are shown as CTRL/*x*s, where *x* is an alphabetic character. Press CTRL/*x* and the appropriate key simultaneously.

Chapter 1

Installing the DECnet/SNA VMS DDXF Software

This chapter describes how to install DECnet/SNA VMS DDXF software (DDXF). DDXF uses one of the following transport products to access the IBM office-system network: VMS/SNA, DECnet/SNA Gateway V1.5, DECnet/SNA Gateway-CT or DECnet/SNA Gateway-ST.

Keep this document with your distribution kit. You might need to refer to it again if you receive any maintenance updates or need to reinstall the DDXF software for any reason.

Installing the interface on the VMS system involves running the VMSINSTAL procedure with the DDXF distribution kit. The installation procedure is described step by step in this chapter. The dialogue is self-explanatory.

1.1 Preparing to Install the DDXF Software

Before you start an installation that involves writing to your system disk, Digital Equipment Corporation recommends that you make a backup copy of your system disk.

Your bill of materials (BOM) specifies the number and contents of your media. Check the contents of your kit against the list in the BOM. If your kit is damaged or parts are missing, call your Digital representative.

For more information on mounting the distribution media, see the *VMS Install Utility Manual*. That book also details several options to the installation procedure; be sure to read it.

1.1.1 Prerequisite Software

V1.4 of DECnet/SNA VMS DDXF requires VMS V4.6 or later and either DECnet/SNA Gateway V1.5, DECnet/SNA Gateway-ST V1.0, DECnet/SNA Gateway-CT V1.0, or VMS/SNA V1.3.

DDXF also requires Gateway Management installed on the VMS load host. The individual transport products require the following versions of the Gateway Management product:

- DECnet/SNA Gateway (DECSA) requires Gateway Management for DECSA V1.5
- DECnet/SNA Gateway-ST requires Gateway Management V2.0
- DECnet/SNA Gateway-CT requires Gateway Management V2.0

1.1.2 On-Line Release Notes

The DDXF installation kit provides on-line release notes. A prompt to display or print the release notes appears during the installation procedure if you invoke VMSINSTAL with the OPTIONS N parameter. Later, you can read the release notes by typing or printing the file SYS$HELP:SNADDXF*nnn*.RELEASE_NOTES (for example, SYS$HELP:SNADDXF014.RELEASE_NOTES).

nnn represents the major version number and all maintenance updates in that version. The first and second digits represent the major version number, and the third digit represents the maintenance update version number.

1.1.3 Installation Procedure Requirements

Before you install the DDXF software, verify that the following installation requirements have been met:

Table 1–1: Installation Requirements for the DECnet/SNA VMS DDXF

Requirements	Specifications
Software	VAX/VMS V4.6 or later DECnet/SNA Gateway V1.5 DECnet/SNA Gateway-CT V1.0 DECnet/SNA Gateway-ST V1.0 VMS/SNA software V1.3 Gateway Management for DECSA V1.5 or Gateway Management V2.0
Privileges	System manager level
Disk space	3696 blocks minimum during installation 1306 blocks minimum after installation
Global sections	12
Global pages	806
Approximate installation time	6 to 30 minutes, depending on the type of medium used
Associated document	VMS software installation guide for your processor

For general background information on installing optional products on a VMS system, refer to the *Guide to VMS Software Installation*.

If you are using VMS V5.0 on your system, make sure that you have registered and loaded the Product Authorization Key (PAK) before you begin the installation. Refer to the *VMS License Management Utility Reference Manual* for this information.

The following sections show you how to check system parameter values, calculate values for the GBLPAGES and GBLSECTIONS system parameters, and change parameter values with the VMS AUTOGEN command procedure.

1.1.4 Checking System Parameter Values

To check the values of your system parameters, enter the following command at the DCL prompt to invoke the SYSGEN utility:

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

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

```
SYSGEN>  SHOW GLBSECTIONS
```

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

1.1.5 Calculating the Values for GBLPAGES and GBLSECTIONS

To install and run DDXF, you must set the correct values for the GBLPAGES and GBLSECTIONS system parameters.

The values for GBLPAGES and GBLSECTIONS in Table 1-1 indicate that you must have at least 806 unused pages or 12 unused sections available on your system for the installation to process successfully. To calculate how many unused global pages and global sections your system has, perform the following steps:

1. Run the VMS Install Utility (INSTALL) using the following DCL commands:

   ```
   $  INSTALL == "$SYS$SYSTEM:INSTALL /COMMAND_MODE"
   $  INSTALL LIST /GLOBAL /SUMMARY
   ```

   NOTE

   For products installed using only VMS V5.0 or later, do not include the first line in the above example. As of VMS V5.0, INSTALL is an official DCL command. Users no longer need to define a logical for INSTALL.

   The INSTALL utility displays a summary of global pages and global sections used by your system, as well as the current number of unused global pages. For example:

   ```
                    Summary of Local Memory Global Sections

   258 Global Sections Used,  22580/3420 Global Pages Used/Unused
   ```

2. Determine whether the number of unused pages (3420 in the example) is equal to or greater than the number specified in Table 1-1. If the number of unused pages is less than the number listed in the table, increase the value for GBLPAGES.

3. Note the amount shown for ‘‘Global Sections Used’’ (258 in the example).
4. Run the SYSGEN utility. Use the SHOW command to determine the number of global sections allocated:

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

Parameter Name    Current   Default   Minimum   Maximum Unit  Dynamic
--------------    -------   -------   -------   ------- ----  -------
GBLSECTIONS           512       250        20      4095 Sections
```

5. Subtract the amount shown in the summary (258 in the example) from the amount allocated. If the difference is less than the number required in Table 1-1, increase the value of the GBLSECTIONS parameter.

Section 1.1.6 describes the procedures for increasing these values as well as those of other system parameters. Refer to the VMS documentation on system management and operations for more information.

1.1.6 Changing System Parameter Values with AUTOGEN

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

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

For example, to change the setting for the GBLSECTIONS system parameter, add this line to the file:

```
GBLSECTIONS = 1024
```

Or for incremental SYSGEN parameters:

```
ADD_GBLPAGES = 2000
```

Now, run the AUTOGEN procedure to recalculate your system parameters. Enter the following command at the DCL prompt:

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

AUTOGEN performs an automatic system shutdown and reboots when it has finished. Rebooting your system makes the new parameter values active. Also on VMS V5.x systems you can add the [NO]FEEDBACK parameter to the AUTOGEN command line. For more information about using AUTOGEN, see the instructions on modifying system parameters in the VMS documentation on System Management and Operations.

1.2 Installing Files on a VMS System

The procedure for installing files on a VMS system is automated. It requires little involvement beyond answering questions displayed while the procedure (VMSINSTAL) runs.

Most questions require a simple yes (Y) or no (N) answer. The questions display default answers (where available) in the following way:

```
[YES]:
```

To answer a question with the default YES, press RET.

To install the distribution kit on your VMS host:

- Log in to the system manager's account.
- Make sure that all users are logged out and all batch jobs are complete.
- Disable logins and DECnet.
- Make sure you have backed up the system disk.
- Check to be sure you have more than 3696 free blocks on the system disk.
- Make sure you have 806 global pages free. (If you do not have enough global pages, the installation will fail immediately.)

1.2.1 Using VMSINSTAL

VMSINSTAL is a command procedure that installs VMS layered software products. The VMSINSTAL command line has the following format:

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

nnn
Represents the major version number and all maintenance updates in that version. The first and second digits represent the major version number, and the third digit represents the maintenance update version number. For the version number of your kit, refer to the label on the distribution kit or the BOM. If you do not supply the product name and version number, VMSINSTAL prompts you for them.

ddcu:
Represents a device name for the DDXF installation media, where *dd* is the device code, *c* is the controller id, and *u* is the unit number. It is not necessary to use the console drive. If you do not supply the device name, VMSINSTAL prompts you for it. MTA0: is the device name used in examples in this document.

OPTIONS N
An optional parameter. Provide it if you want to be prompted to display or print the release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not prompt you to display or print the release notes.

When you install a product using VMSINSTAL, you have two installation options. Either you can enter the VMSINSTAL command line specifying the product name, version number, device name, and release notes option, or you can enter the following command:

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

If you enter the preceding command, VMSINSTAL prompts you for the product name, version number, and device name during the installation. If you use this command, you do not have the option of displaying or printing the release notes.

1.3 Installing DECnet/SNA VMS DDXF Software

This section displays the script you see when you use VMSINSTAL to install DDXF software. In addition, this section contains explanatory text for each prompt.

When you run VMSINSTAL, accept the default value by pressing the RET key. Unless it is otherwise stated, end every command line by pressing RET.

If at any time during the installation, you need to terminate the procedure, press CTRL/Y. When you press CTRL/Y, the installation procedure deletes all files it has created up to that point and exits. If you want to restart the installation procedure after pressing CTRL/Y, you must begin again from step 2.

Enhancements to VMSINSTAL in future releases of the VMS operating system might result in additional prompts appearing during the course of the installation. Although such prompts might not be documented in this installation guide, the installation should proceed normally.

Step 1: Log in to the system manager's account.

```
Username:  SYSTEM   RET
Password:           RET
```

Step 2: Invoke VMSINSTAL.

```
$  @SYS$UPDATE:VMSINSTAL SNADDXFnnn MTA0: OPTIONS N  RET
```

Replace *nnn* in the product name with the version number of the software, for example, SNADDXF014.

```
           VMS Software Product Installation Procedure V5.0

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]? RET
```

Step 3: Product installation begins.

VMSINSTAL prompts you to mount the distribution kit volume.

```
Please mount the first volume of the set on ddcn:

* Are you ready ? Y
```

Type YES when you have mounted the first volume on the console drive.

```
%MOUNT-I-MOUNTED, SNADDXF mounted on ddcn:

The following products will be processed:

    SNADDXF Vn.n

       Beginning installation of SNADDXF Vn.n at hh:mm

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

n.n is automatically replaced with the version number of the DDXF software, for example, V1.4

Step 4: Select a release notes option.

The following prompts appear 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
* Select option [3]:  RET
```

If you select option 1, VMSINSTAL displays the release notes immediately on your screen. You can terminate the display at any time by pressing CTRL/C.

If you select option 2, VMSINSTAL prompts you for a queue name.

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

Either type a queue name, or press RET to send the file to the default output print device.

If you select option 3, VMSINSTAL prompts you for a queue name and displays the release notes.

After the release notes are displayed or printed, the following prompt and message appear:

```
Do you want to continue the installation [NO]?:  Y RET
%VMSINSTAL-I-RELMOVED, The products release notes have been successfully
moved to SYS$HELP.
```

If you want to continue the installation, type Y and press RET. If you type N and press RET or just press RET, VMSINSTAL stops the installation.

Step 5: Register the product with the License Management Facility

If you are using VMS V5.0, you must use the VMS License Management Facility (LMF) to register the product. The following text appears:

```
           Product:         SNA-DDXF
             Producer:      DEC
             Version:       Vn.n
             Release Date:  dd-mmm-yyyy

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

Check to see if this is the same information contained in your Product Authorization Key (PAK). Type YES or NO in response to the question.

If you do not register and load your authorization key, the product will not run. For more information on LMF, refer to the *VMS License Management Utility Reference Manual*.

Step 6: Select installation options.

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

The installation verification procedure (IVP) runs tests to check whether the installation procedure was successful. Press RET to run the IVP after the installation. If you do not want to run the IVP, type N in response to the prompt.

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

The system disk might contain previous versions of the distribution files. The files are replaced during installation with new files, but the old files are not automatically purged. Purging is recommended. In response to the purging prompt, press RET to purge the files, or type N to keep them.

NOTE

Digital recommends that you do not delete previous versions of on-line release notes.

Step 7: Read informational messages.

When you use VMS V4.*x*, the installation procedure displays the following informational messages:

```
          All questions have been asked, installation continuing ...

%VMSINSTAL-I-SYSDIR, This product creates a system disk directory
VMI$ROOT:[SYSTEST.SNADDXF].

          The IVP for this product, SNADDXF$IVP.COM, can be found in
          the SNADDXF subdirectory of SYS$TEST.

          To install the DDXF images as shareable each time the
          system reboots, you must add the following line to your
          system startup procedure:

  $ @SYS$MANAGER:SNADDXF$STARTUP
```

When you use VMS V5.*x*, the installation procedure displays the following informational messages:

```
          All questions have been asked, installation continuing ...
%VMSINSTAL-I-SYSDIR, This product creates a system disk directory
VMI$ROOT:[SYSTEST.SNADDXF].
          The IVP for this product, SNADDXF$IVP.COM, can be found in
          the SNADDXF subdirectory of SYS$TEST.
          To install the DDXF images as shareable each time the
          system reboots, you must add the following line to your
          system startup procedure:
  $ @SYS$STARTUP:SNADDXF$STARTUP

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

Step 8: The IVP is run.

The installation procedure now calls the IVP to verify that the DDXF software was successfully installed. The system displays the following messages:

```
         DECnet/SNA VMS DDXF Installation Verification Procedure.
                                 NOTE
        This procedure only verifies that the DDXF software has been
        correctly installed on your VMS system. It does NOT
        verify that all DECnet/SNA Gateway (or VMS/SNA), and IBM
        parameters have been set up correctly. See the DECnet/SNA
        VMS Gateway Management Guide and the Guide for IBM Parameters
        for your interconnect product for information on these parameters.
        The IVP will now run DDXF and attempt to sign on to DISOSS
        specifying an invalid Gateway and access name. This verifies
        that the DDXF shareable library and all error message files
        have been correctly installed. The following messages will
        be displayed if you have a Gateway:
```

NOTE

Expect the following messages. They are not installation error messages; they are simply a way to verify that the DDXF software is installed correctly.

```
        Starting session for DDXFIVP
        %SNADOC-E-NOSIGN, failed to sign on to DISOSS
        -SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
        -SNA-E-SNAASSFAI, failed to assigned an I/O channel to _SNA0:
        -SYSTEM-W-NOSUCHDEV, no such device available

        If you have a VMS/SNA product then expect the following
        error message.

        Starting session for DDXFIVP
        %SNADOC-E-NOSIGN, failed to sign on to DISOSS
        -SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
        -SNA-E-SNAASSFAI, failed to establish SNA session
        -SYSTEM-W-NOSUCHDEV, access name does not exist

Using foreign command SNADOC...
$  SNADOC/gateway=""/access" "/user=ddxfivp directory
Starting session for DDXFIVP
%SNADOC-E-NOSIGN, failed to sign on to DISOSS
-SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
-SNA-E-SNAASSFAI, failed to assign an I/O channel to _SNA0:
-SYSTEM-W-NOSUCHDEV, no such device available
```

The display continues.

```
       The IVP will now run DDXF to display the version of the
       product installed.

Using DCL verb TRANSFER/DDXF...
$ TRANSFER/DDXF show version
 DECnet/SNA VMS SNADDXF V1.4_90
 Image file DUA0:[SYS0.SYSCOMMON.][SYSEXE]SNADOC.EXE


DECnet/SNA VMS DDXF V1.4 Installation Verification completed
successfully
```

Step 9: End the Installation Procedure

```
                      DECnet/SNA VMS DDXF V1.4

   Please be sure to edit system startup files, as described in
   Appendix A of the DECnet/SNA VMS DDXF User's Guide.

   If you have installed DDXF previously and the version is
   lower than V1.2, then you MUST convert your old VUP file
   (sys$system:snadocvup.dat) to the new format.  For details
   on conversion, see your DDXF on-line release notes.

  Installation of SNADDXF V1.4 completed at hh:mm
```

If you typed Y in response to the prompt that requests a file purge, previous versions of the files are now purged.

If the installation procedure is successful, the executable files are moved to their target directory.

NOTE

The release notes file installed by VMSINSTAL has a different name in each maintenance release.

```
   VMSINSTAL procedure done at hh:mm

$  LOGOUT  RET
SYSTEM     logged out at dd-mmm-yyyy hh:mm
```

When the installation procedure is complete, you can continue to install more products or end the installation procedure. To end the procedure, press CTRL/Z or the RET key.

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 want to restore those symbols, you should log out and log in again.

1.4 Files Created During Installation

During installation, VMSINSTAL creates the files in the location shown in Table 2-1.

Table 1–2: Files Created During Installation

File Name	Location	Description
DDXF_MAILSHR.EXE	SYS$SHARE	VMS MAIL interface
DDXF_MAILSHRP.EXE	SYS$SHARE	Protected VMS MAIL interface
SNADOC.EXE	SYS$SYSTEM	User interface
SNADOCHELP.HLB	SYS$HELP	Help library
SNADOCMSG.EXE	SYS$MESSAGE	Message file
SNADOCVUP.DAT	SYS$SYSTEM	Blank VUP file
SNADOCVUP.EXE	SYS$SYSTEM	VUP utility
SNADOCVUPHELP.HLB	SYS$HELP	VUP help library
SNADDXF_MAIL_START.COM	SYS$MANAGER	Mail start-up file

Table 1–2 (Cont.): Files Created During Installation

File Name	Location	Description
SNADDXF_MAIL_STOP.COM	SYS$MANAGER	Mail stop file
SNADOC_PROFILE.PRF	SYS$EXAMPLES	Profile file template
SNADDXF$STARTUP.COM	SYS$MANAGER	Start-up command procedure for VMS V4.*x*
SNADDXF$STARTUP.COM	SYS$STARTUP	Start-up command procedure for VMS V5.*x*
SNADDXFMSG.EXE	SYS$MESSAGE	Message file
SNADDXFSHR.EXE	SYS$SHARE	Library of DDXF routines
SNADDXF014.RELEASE_NOTES	SYS$HELP	Release notes

DDXF HELP is added to the system HELP. DDXF HELP explains how to start DDXF and how to use DDXF with VMS MAIL to send mail to DISOSS users.

1.5 Installing and Reinstalling DDXF

To install DDXF by using VMSINSTAL, follow the steps preparatory to using VMSINSTAL in the *Guide to VMS Software Installation*. If you need to reinstall DDXF, follow the preparation information and, in particular, make sure that there are no mail daemons. For information on DDXF mail daemons, refer to the *DECnet/SNA VMS DDXF User's Guide*.

NOTE

After installing DDXF on your system, refer to *DECnet/SNA VMS DDXF User's Guide* for information about managing DDXF.

1.6 Using the DDXF Software in a VAXcluster

After you have installed the DDXF software on one node of a VAXcluster, you can install it on the other nodes of the VAXcluster. Execute the SNADDXF$STARTUP.COM procedure on each node as follows:

```
$ @SYS$MANAGER:SNADDXF$STARTUP.COM
```

NOTE

For nodes running VMS V5.0, the command procedure is in the SYS$STARTUP directory.

If you are using VMS V5.0, you must activate a DDXF license for each node in the VAXcluster that will execute and run the DDXF software. You can activate the license in one of the following ways:

- Log in to each VAXcluster node, and enter the LICENSE LOAD command.
- Invoke the VMS SYSMAN Utility to execute the LICENSE LOAD command on the desired VAXcluster nodes. See the *VMS SYSMAN Utility Manual* for details on defining your management environment, and executing commands on other nodes.

For more information on the LICENSE LOAD command, refer to the *VMS License Management Utility Manual*.

1.7 Sample Installation with VMS V4.6

This section contains a sample installation of the DDXF software. Note that this is only a sample. Unless otherwise stated, every command line ends with a RET.

```
$@SYS$UPDATE:VMSINSTAL SNADDXF014 MTA0: OPTIONS N

 VAX/VMS Software Product Installation Procedure V4.6


It is 25-JUL-1988 at 10:55.
Enter a question mark (?) at any time for help.

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

Please mount the first volume of the set on MTA0:.
* Are you ready? Yes
%MOUNT-I-MOUNTED, SNADDXF mounted on MTA0

The following products will be processed:

  SNADDXF V1.4

 Beginning installation of SNADDXF V1.4 at 10:56

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

Release Notes Options:
```

```
 1.   Display release notes
 2.   Print release notes
 3.   Both 1 and 2

* Select option [3]: 2 RET
* Queue name [SYS$PRINT]: RET
* Do you want to continue the installation [N]? Y RET

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

* Do you want to run the IVP after the installation [YES]? RET
* Do you want to purge files replaced by this installation [YES]? RET

    All questions have been asked, installation continuing ...

%VMSINSTAL-I-SYSDISK, This product creates system disk directory
VMI$ROOT:[SYSTEST.SNADDXF].

    The IVP for this product, SNADDXF$IVP.COM, can be found in
    the SNADDXF subdirectory of SYS$TEST.


    To install the DDXF images as shareable each time the
    system reboots, you must add the following line to your
    system startup procedure:

  $ @SYS$MANAGER:SNADDXF$STARTUP


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

      DECnet/SNA VMS DDXF Installation Verification Procedure

                              NOTE
    This procedure only verifies that the DDXF software has been
    correctly installed on your VAX/VMS system.  It does NOT
    verify that all DECnet/SNA Gateway (or VMS/SNA ), and IBM
    parameters have been set up correctly.  See the DECnet/SNA
    VMS Gateway Management Guide and the Guide to IBM Parameters
    for your interconnect product for information on these parameters.

    The IVP will now run DDXF and attempt to sign on to DISOSS
    specifying an invalid Gateway and Access Name. This verifies
    that the DDXF shareable library and all error message files
    have been correctly installed. The following messages will
    be displayed if you have a Gateway.

    Starting session for DDXFIVP
    %SNADOC-E-NOSIGN, failed to sign on to DISOSS
    -SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
    -SNA-E-SNAASSFAI, failed to assign an I/O channel to _SNA0:
    -SYSTEM-W-NOSUCHDEV, no such device available

    If you have a VMS/SNA product then expect the following
    error message.
```

```
    Starting session for DDXFIVP
    %SNADOC-E-NOSIGN, failed to sign on to DISOSS
    -SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
    -SNALU62-E-NOTEST, failed to establish SNA session

    -SNA-E-NO-SUCACC, Access name does not exist

Using foreign command SNADOC...
$ SNADOC/gateway=" "/access=" "/user=ddxfivp directory
Starting session for DDXFIVP
%SNADOC-E-NOSIGN, failed to sign on to DISOSS
-SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
-SNA-E-SNAASSFAI, failed to assign an I/O channel to _SNA0:
-SYSTEM-W-NOSUCHDEV, no such device available


    The IVP will now run DDXF to display the version of the
    installed product.

Using DCL verb TRANSFER/DDXF...
$ TRANSFER/DDXF show version
 DECnet/SNA VMS SNADDXF V1.4_90
 Image file DUA0:[SYS0.SYSCOMMON.][SYSEXE]SNADOC.EXE


DECnet/SNA VMS DDXF V1.4 Installation Verification completed
successfully

                     DECnet/SNA VMS DDXF V1.4

    Please be sure to edit system startup files, as described in
    Appendix A of the DECnet/SNA VMS DDXF User's Guide.

    If you have installed DDXF previously and the version is
    lower than V1.2 then you MUST convert your old VUP file
    (sys$system:snadocvup.dat) to the new format. For detail on
    conversion see your DDXF on-line release notes.

 Installation of SNADDXF V1.4 completed at 11:03

 VMSINSTAL procedure done at 11:04
```

1.8 Sample Installation with VMS V5.0

This section contains a sample installation of the DDXF software. Note that this is only a sample. The installation procedure might be modified slightly in future maintenance updates.

Unless otherwise stated, every command line ends with a RET.

```
$ @SYS$UPDATE:VMSINSTAL SNADDXF014 MTA0: OPTIONS N

 VAX/VMS Software Product Installation Procedure V5.0

It is 25-JUL-1988 at 10:55.
Enter a question mark (?) at any time for help.

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

Please mount the first volume of the set on MTA0:.
* Are you ready? Yes
%MOUNT-I-MOUNTED, SNADDXF mounted on MTA0

The following products will be processed:

  SNADDXF V1.4

 Beginning installation of SNADDXF V1.4 at 10:56

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

Release Notes Options:

 1.   Display release notes
 2.   Print release notes
 3.   Both 1 and 2

* Select option [3]: 2 RET
* Queue name [SYS$PRINT]: RET
* Do you want to continue the installation [N]? Y RET

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

        Product:      SNA-DDXF
        Producer:     DEC
        Version:      V1.4
        Release Date: 01-AUG-1988

* Does this product have an authorization key registered and loaded [YES]? RET

* Do you want to purge files replaced by this installation [YES]? RET
* Do you want to run the IVP after the installation [YES]? RET

    All questions have been asked, installation continuing ...

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.SNADDXF].

    The IVP for this product, SNADDXF$IVP.COM, can be found in
    the SNADDXF subdirectory of SYS$TEST.


    To install the DDXF images as shareable each time the
    system reboots, you must add the following line to your
    system startup procedure:

  $ @SYS$STARTUP:SNADDXF$STARTUP
```

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

      DECnet/SNA VMS DDXF Installation Verification Procedure.

                              NOTE
    This procedure only verifies that the DDXF software has been
    correctly installed  on  your  VAX/VMS system.  It does NOT
    verify  that  all DECnet/SNA  Gateway (or VMS/SNA ), and IBM
    parameters have been set up  correctly.  See  the  DECnet/SNA
    VMS Gateway Management Guide and the Guide to IBM Parameters
    for your interconnect product for information on these parameters.

    The IVP will now run  DDXF and attempt to sign on to DISOSS
    specifying an invalid Gateway and Access Name. This verifies
    that the DDXF shareable library and all error message  files
    have been correctly installed. The  following  messages will
    be displayed if you have a Gateway.

    Starting session for DDXFIVP
    %SNADOC-E-NOSIGN, failed to sign on to DISOSS
    -SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
    -SNA-E-SNAASSFAI, failed to assign an I/O channel to _SNA0:
    -SYSTEM-W-NOSUCHDEV, no such device available

    If you have a VMS/SNA product then expect the following
    error message.

    Starting session for DDXFIVP
    %SNADOC-E-NOSIGN, failed to sign on to DISOSS
    -SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
    -SNALU62-E-NOTEST, failed to establish SNA session
    -SNA-E-NO-SUCACC, Access name does not exist

Using foreign command SNADOC...
$ SNADOC/gateway=" "/access=" "/user=ddxfivp directory
Starting session for DDXFIVP
%SNADOC-E-NOSIGN, failed to sign on to DISOSS
-SNADDXF-E-DIARESFAI, DIA/LU6.2 resources not available
-SNA-E-SNAASSFAI, failed to assign an I/O channel to _SNA0:
-SYSTEM-W-NOSUCHDEV, no such device available


    The IVP will now run DDXF to display the version of the
    installed product.

Using DCL verb TRANSFER/DDXF...
$ TRANSFER/DDXF show version
 DECnet/SNA VMS SNADDXF V1.4_90
 Image file DUA0:[SYS0.SYSCOMMON.][SYSEXE]SNADOC.EXE


DECnet/SNA VMS DDXF V1.4 Installation Verification completed
successfully

                     DECnet/SNA VMS DDXF V1.4

    Please be sure to edit system startup files, as described in
    Appendix A of the DECnet/SNA VMS DDXF User's Guide.
```

```
   If you have installed DDXF previously and the version is
   lower than V1.2 then you MUST convert your  old VUP file
   (sys$system:snadocvup.dat) to the new format. For detail on
   conversion see your DDXF on-line release notes.

Installation of SNADDXF V1.4 completed at 11:03

VMSINSTAL procedure done at 11:04
```

Chapter 2

Ensuring that DDXF Works Properly

The Installation Verification Procedure (IVP) checks that all the DDXF files are in the correct places. You should now check that the link to DISOSS actually works by performing the following steps.

1. At the DCL prompt, start DDXF by entering the following command:

   ```
   $ TRANSFER/DDXF
   ```

   The SNADOC prompt appears.

   ```
   SNADOC>
   ```

2. Use the SNADOC SEARCH command to create an index of documents in the IBM DISOSS library. Enter the following command to create an index of documents in the IBM DISOSS library.

   ```
   SNADOC> SEARCH/ALL
   ```

   If you get an index of DISOSS documents, the communications link between DDXF and DISOSS is working properly. If you do not get an index of documents, refer to the *DECnet/SNA VMS DDXF User's Guide* for a list of error messages and the suggested corrective action.

Chapter 3

Solving DECnet/SNA VMS DDXF Problems

This chapter discusses problems you might have using DECnet/SNA VMS DDXF. Subsequent pages contain solutions for each problem.

Problem Number	Symptom
1	You receive an IBM sense code following a general error message from DDXF.
2	You receive an error message indicating that processing of FINAL-FORM text has been aborted.
3	When you FILE or SEND a document, DISOSS accepts the smaller documents but rejects the larger documents.

DDXF Problem 1

You receive an IBM sense code following a general error message from DDXF. For example, you might receive one of the following sense codes: 0801 or 0805.

Solution:

The secondary DDXF error message indicates a problem in the remote IBM host. The IBM sense code provides details about the problem on the IBM side.

Sense code 0801 indicates that a logical unit (LU) is not available and that DISOSS is not running. See your IBM system programmer.

Sense code 0805 indicates that all available LUs are in use. Wait until an LU becomes free, or ask your system programmer to determine whether enough LUs are defined.

On occasion, you might receive other IBM sense codes. You can look up their meanings in IBM's *Systems Network Architecture Formats*, Order No. GA27-3136.

DDXF Problem 2

You receive the following error message indicating that processing of FINAL-FORM text has been aborted.

```
SNADDXF-E-ABORTED, FINAL-FORM text processing aborted
```

Solution:

This message indicates an error in the document you are trying to retrieve. Check that you have specified a FINAL-FORM document. The profile term you specified might indicate a FINAL-FORM document, but you might actually be trying to retrieve an ASCII file.

DDXF Problem 3

When you FILE or SEND documents, DISOSS accepts the smaller documents but rejects the larger ones. You receive the following IBM exception message:

```
-SNADDXF-E-EXCODE, I/O error at DISOSS host
```

Solution:

This situation usually means that the DISOSS libraries have become segmented. You do not have enough contiguous room for large files. Ask your IBM system programmer to examine the DISOSS library file system.

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