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3270 Terminal Option Software Installation (VMS)

Order No. First Draft Review

June, 1989

This guide tells you how to install the 3270 Terminal Option software onto a VMS system, how to configure the 3270 software in the server image on a load host, and how to verify that the software is functioning. This manual is intended for the VMS system manager or the network manager.

Software	3270 Terminal Option V1.0, DECserver 500 V2.0
Operating System	VMS V5.0

This manual applies to Version 1.0 of the 3270 Terminal Option software, Version 2.0 of the DECserver 500 software, Version 5.0 of the VMS operating system, and all subsequent maintenance releases of these products up to the next major product release.

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Published June 1989

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This manual was produced by Networks and Communications Publications.

Preface

This document describes how to install the 3270 Terminal Option distribution software onto a VMS system and how to append that software to a DECserver 500 server image. The image is then down-line loaded to the server hardware. This document also suggests some ways to verify that the software is functioning properly.

Intended Audience

This guide is for system managers or network managers who are responsible for maintaining and configuring terminal servers on a local area network (LAN). To use this guide, you should be familiar with both DECnet network management concepts and the VMS operating system.

Structure of This Guide

This guide contains the following chapters and appendixes:

Chapter 1	Summarizes the installation and postinstallation procedures.
Chapter 2	Explains how to prepare and install the 3270 Terminal Option software.
Chapter 3	Explains how to append the 3270 Terminal Option software to the DECserver 500 server image on the load host.
Chapter 4	Describes how to verify that the 3270 Terminal Option software is functioning.

Appendix A	Gives examples of installing and appending the 3270 Terminal Option software to the DECserver 500 V2.0 server image. This appendix also gives examples which verify that the 3270 Terminal Option software is functioning.

Graphic Conventions Used in This Guide

The installation procedure and program examples use the following conventions.

Convention	Meaning
`Special type`	This special type indicates system output or user input. System input is in red type.
RET	Press the RETURN key.
UPPERCASE	Uppercase letters in command lines indicates keywords that must be entered. You can enter keywords in either uppercase or lowercase. You can abbreviate command keywords to the smallest number of characters that distinguish the keyword to the server or to the TSC.
lowercase italics	Lowercase italics in command syntax or examples indicate variables for which either the user or the system supplies a value.
[ ]	In the VMSINSTAL command procedure, indicates that the enclosed value is the default. To specify the default, press RET. To specify another value, type it after the brackets and press RET. (Do not type the brackets.)
key	Indicates that you press the specified key.
CTRL/*x*	Indicates a control character keying sequence on a Digital VT terminal: CTRL + *x*. You simultaneously hold the CTRL key down and press the key specified by *x*. The server displays this key combination as ^*x*. On your 3270 terminal, to simulate the CTRL/*x* function of a VT220 terminal, see the *3270 Terminal Option Use* manual

1
Installation Overview

This chapter discusses the steps for installing the 3270 Terminal Option software and lists the files created by the installation. It also discusses the post installation tasks.

NOTE

This manual refers to the 3270 Terminal Option software as the 3270 software.

1.1 Overview of the Installation Steps

Installing the 3270 Terminal Option distribution software involves the following steps:

- Performing preinstallation procedures
- Installing the 3270 Terminal Option software on a load host
- Performing postinstallation procedures
- Verifying that the 3270 software is functioning

You install the 3270 Terminal Option software onto a load host running the VMS V5.0 software.

VMSINSTAL is an interactive procedure that is part of the VMS operating system. You use VMSINSTAL to install the 3270 Terminal Option software onto a VMS system. The 3270 software distribution kit includes a procedure file that VMSINSTAL uses to do the following:

- Copies the 3270 Terminal Option files from the distribution media into the SYS$SYSROOT:[DECSERVER] server directory on the load host. For VAXclusters, VMSINSTAL copies the files into SYS$COMMON:[DECSERVER]. If a [DECSERVER] directory does not already exist on the load host, VMSINSTAL creates this directory.
- Optionally prints a copy of the 3270 Terminal Option release notes.
- Optionally runs the Installation Verification Procedure (IVP).

Refer to the *Guide to VAX/VMS Software Installation* manual for a complete description of VMSINSTAL.

Installing the 3270 software creates the following files on the VMS load host:

- CXM$FIRMWARE.SYS
- CXM$NORTH_AMERICAN.KEYS
- CXM$BRITISH.KEYS
- CXM$FRENCH.KEYS
- CXM$GERMAN.KEYS
- CXM$IVP.COM
- CXM010.RELEASE_NOTES

CXM$FIRMWARE.SYS is the 3270 Terminal Option software, the KEYS files are keyboard translation table files, the CXM$IVP.COM is the Installation Verification Procedure, and CXM010.RELEASE_NOTES is the 3270 Terminal Option release notes.

Once installed, the 3270 software must be appended to the DECserver 500 V2.0 image on the load host (see Chapter 3). The image must then be down-line loaded to the server hardware (see Section 3.3) containing the CXM04 line card. The server then automatically loads the 3270 software onto the CXM04 line card.

Note that down-line loading a DECserver 500 server image without the 3270 software disables the ports associated with the CXM04 line card. When this occurs, the server gives the CXM04 device status as "Wrg Typ" in the SHOW DEVICES display.

To verify that the 3270 software and hardware are installed properly, enter a few server commands from a 3270 terminal attached to the CXM04 line card (see Chapter 4).

1.2 Prerequisite and Optional Products

The *3270 Terminal Option Software Product Description* contains a list of prerequisite and optional products for the 3270 Terminal Option software.

2

Installing the 3270 Terminal Option Distribution Software

This chapter explains how to prepare for installation and how to install the 3270 Terminal Option software onto a VMS V5.0 system.

2.1 Contents of the 3270 Terminal Option Distribution Kit

The 3270 Terminal Option distribution kit consists of the following:

- Operational software for the CXM04 line card
- Keyboard language table files
- Release notes
- Software documentation kit

2.2 Preparing for Installation

You use the VMSINSTAL procedure to install 3270 Terminal Option software. The VMSINSTAL procedure requires the VMS operating system. Refer to the *3270 Terminal Option Software (VMS) Software Product Description* (SPD) for supported versions of VMS. The 3270 Terminal Option software installation requires only one tailoring class: VMS Required Saveset.

Check the following items before installing the 3270 software.

- Ensure that the CXM04 line card is or will be installed in the server hardware.
- Determine the VMS V5.0 load host(s) on which you want to install the 3270 software.
- Ensure that the VMS V5.0 load host(s) have or will have DECserver 500 V2.0 software installed.
- Ensure that you have appropriate privileges to run VMSINSTAL.COM from the system manager's account. (Refer to the *VMS System Manager's Manual* for a list of the necessary privileges.)
- Back up the system disk (optional, but recommended).
- Check for adequate disk space. The 3270 distribution software requires 450 blocks of free disk space on the VMS load host; however, peak block usage is 500 blocks.

2.3 Installing the Software on the Load Host

The installation procedure takes approximately one to two minutes. This section discusses the steps that you take to install the 3270 software.

Installation Notes

1. If you wish to abort the installation procedure at any time, enter CTRL/Y. The installation procedure then deletes all files it has created up to that point and returns you to the DCL level. You must invoke VMSINSTAL again to retry the installation procedure.
2. You can install the 3270 Terminal Option software before installing the DECserver 500 V2.0 software. However, in order to append the 3270 software to the server image (see Chapter 3), the DECserver 500 software must be installed. Refer to the *DECserver 500 Software Installation (VMS)* manual for information about installing the DECserver 500 software on a VMS load host.
3. Notice that the 3270 Terminal Option software is sometimes called CXM in the installation procedure.

Installation Procedure

Perform the following steps to install the distribution software:

Step 1: Place the 3270 distribution medium on the appropriate device drive.

Step 2: Log the installation procedure.

Digital Equipment Corporation recommends that you log the installation procedure with the following command before you invoke VMSINSTAL.

```
$ SET HOST/LOG node-name RET
```

Here, *node-name* is the name of your system.

Step 3: Invoke VMSINSTAL.

Invoking VMSINSTAL.COM requires the appropriate privileges. Refer to the *VMS System Manager's Manual* for a list of the necessary privileges.

Log in to the system manager account, and enter the following commands:

```
$ SET DEFAULT SYS$UPDATE RET
$ @VMSINSTAL CXM device-identifier OPTIONS N RET
```

Here, CXM is the VMS three-letter facility code for the 3270 Terminal Option product, and *device-identifier* is the device on which the distribution medium is mounted.

OPTIONS N is an optional parameter that indicates that you want to be prompted to display or print the *3270 Terminal Option Release Notes*. If you do not include the OPTIONS N parameter, VMSINSTAL does not prompt you to display or print the release notes. Digital Equipment Corporation strongly recommends that you use OPTIONS N and read the release notes before proceeding with this installation. If you do not want to print the release notes or if you are interested in other VMSINSTAL options, see the *VMS System Manager's Manual*, which is part of the VMS documentation set.

Step 4: Answer the VMSINSTAL questions:

VMSINSTAL displays the procedure title and the date and time.

```
It is da-mon-year at hh:mm.
```

VMSINSTAL then continues with the following (the warning message appears only if DECnet is running).

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
* Do you want to continue anyway [NO]?
```

1. Type Y; then press RET to answer YES and proceed with the installation.

   VMSINSTAL asks:

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

2. If backup is satisfactory, press the RETURN key to answer YES (the default).

   If you answer NO, the installation procedure terminates. Take appropriate action and start the procedure again.

   If you are installing from the distribution media rather than from copied savesets, VMSINSTAL prompts you to mount the first volume, which you did at step 1:

   ```
   Please mount the first volume of the set on device-identifier.
   * Are you ready:
   ```

3. Type YES and press the RETURN key. A confirmation message says that the medium is mounted. The procedure continues.

   ```
   The following product will be processed:

     CXM Vn.n

          Beginning installation of CXM Vn.n at hh:mm

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

NOTE

The 3270 Terminal Option software version number is not specified in this chapter. For example, the 3270 Terminal Option software is shown as CXM V*n.n*. Here, *n.n* represents the version number; if you are installing Version 1.0, the 3270 software appears

as CXM V1.0. The acronym CXM represents the DS550 line card where the 3270 software will reside.

Step 5: Print and/or Display the Release Notes:

Next, the procedure lists your options for printing and displaying the release notes.

```
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]:
```

Select one of these options. Digital recommends that you select option 2.

- If you select option 1, you see:

  VMI$ROOT:[SYSUPD.CXM*nnn*]CXM*nnn*.RELEASE_NOTES;1

  The release notes immediately start scrolling at your terminal. The release notes contain approximately 72 screens.

- If you select option 2, VMSINSTAL asks you which queue you want to send the file to for printing:

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

  Specify another print queue, or press the RETURN key to print the release notes on the default printer. A message indicates that the system has queued the file.

- If you select option 3, VMSINSTAL first asks you which queue you want to send the file to for printing:

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

  Specify another print queue, or press the RETURN key to print the release notes on the default printer. A message indicates that the system has queued the file for printing. Next, VMSINSTAL displays the following, then the release notes immediately start scrolling at your terminal.

  VMI$ROOT:[SYSUPD.CXM*nnn*]CXM*nnn*.RELEASE_NOTES;1

After the system queue message and the release notes are displayed (if you selected one of the display options), the procedure continues by asking:

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

If you haven't read the release notes, press the RETURN key to stop the procedure and review the release notes. Check for any changes that can affect this installation. (VMSINSTAL places the release notes file, CXM*nnn*.RELEASE_NOTES, in the SYS$HELP directory.)

Step 6: Restart VMSINSTAL if you stopped to read the release notes.

If you discontinued the installation procedure at the end of step 5, enter this form of the VMSINSTAL command to restart the procedure:

```
$ @VMSINSTAL CXM device-identifier RET
```

After entering this command, you must answer the VMSINSTAL questions (refer to step 4).

Step 7: Initiate the Installation Verification Procedure (IVP) (recommended).

After the release notes option menu, the procedure continues:

```
The following products will be processed:
    CXM Vn.n

       Beginning installation of CXM Vn.n at hh:mm

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
%VMSINSTAL-I-REMOVED, the product's release notes have been
successfully moved to SYS$HELP.
* Do you want to purge files replaced by this installation [YES]?
```

Press the RETURN key to have the files purged.

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

The installation verification procedure (IVP) verifies that the DECSERVER directory exists, that all the files from the distribution kit are in the directory, and that the release notes are in the SYS$HELP directory. Digital recommends that you press the RETURN key to initiate the IVP.

You have completed your installation. The procedure continues as follows:

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

                        3270 Terminal Option V1.0

  Beginning installation verification procedure for 3270 Software

/\/\/\
```

3

Appending the 3270 Software to the DECserver 500 Software

This chapter describes how to configure the DECserver 500 software so that it includes the 3270 software. This chapter also discusses VT terminal keyboard languages supported by the 3270 software and the down-line loading of the 3270 software to the CXM04 line card in the server hardware unit.

3.1 Configuring the DECserver 500 Software

Once you install the 3270 software, you need to append it to the DECserver 500 V2.0 image on the load host. You do this by configuring the DECserver 500 software to include the 3270 Terminal Option software. The 3270 software controls the operation of the CXM04 line card.

If the DECserver 500 software is not already installed, install it and use TSC or TSM to configure the DECserver 500 software and the 3270 Terminal Option software. TSC is included in the DECserver 500 V2.0 software installation kit and is meant specifically for configuring the server image. TSM is an optional software product that manages all Digital Equipment Corporation terminal servers. The *DECserver 500 Software Installation (VMS)* manual describes how to install the DECserver 500 software.

If this is the first time that a CXM04 line card is being defined in the DECserver 500 V2.0 server image, TSC or TSM automatically appends the 3270 software to that server image. This occurs when you execute the TSC or TSM DEFINE DEVICE TYPE command (you specify CXM04 as the device type).

To configure the DECserver 500 V2.0 software, you need to know how many 3270 terminals are attached to the CXM04 line card. Check with the server manager to find out if the CXM04 line card hardware is configured for four or eight terminals. Your software and the CXM04 line card configuration must be configured for the same number of terminals.

You can configure the DECserver 500 V2.0 software so that the 3270 Terminal Option software supports either four or eight terminals on the CXM04 line card as follows:

- Configuration 4. Four 3270 terminals (the default) allow the terminals to operate in dynamic mode. In dynamic mode, a 3270 terminal user can switch between VT mode and 3270 mode. In 3270 mode, 3270 terminal users can access IBM resources through the local IBM cluster control unit (CCU). You can use the TSC/TSM DEFINE PORT command to restrict any of the four terminals to VT mode or to 3270 mode.
- Configuration 8. Eight 3270 terminals allow the terminals to operate in VT mode only. In VT mode, the terminals behave as VT220 terminals, and 3270 users can access Digital Equipment Corporation's resources only on the local area network.

The following example configures the software for the CXM04 line card to operate in both modes, but restricts port 2 to VT mode:

```
TSC> DEFINE DEVICE LC1 TYPE CXM04 CONFIGURATION 4 RET
TSC> DEFINE PORT 2 MODE VT RET
```

Refer to the *DECserver 500 Management* manual for additional information about how the CXM04 line card operates. Notice that the command in this example appended the 3270 Terminal Option to the DECserver 500 server image.

3.2 Defining a VT Language for 3270 Terminals

The 3270 software supports four VT terminal keyboard languages. The default language is North American. If you want to replace an existing language in the server image, use the following procedure:

1. First, use the following TSC command to display a list of the languages currently defined in the server image.

   ```
   TSC> LIST LANGUAGES RET
   ```

2. Then, use the PURGE command to remove one of the existing four languages from the server image. For example:

```
TSC> PURGE LANGUAGE FRENCH RET
```

3. Next, use the TSC DEFINE LANGUAGE command to append your language to the DECserver 500 V2.0 server image. For example, the following example appends the language GERMAN to the server image:

```
TSC> DEFINE LANGUAGE GERMAN FILE FOO::SYS$COMMON:[DECSERVER]CXM$GERMAN.KEYS RET
```

NOTE

TSC and TSM prevent you from purging all of the languages from the server image. The server image must consist of at least one language in order to down-line load and operate.

Refer to the *DECserver 500 Management* manual for more information about adding languages to the server image.

4. Finally, the default keyboard language, North American, is in effect for your terminal when you first start up the server. Use the VT Set-Up feature to set up the desired keyboard language for your 3270 terminal (refer to the *3270 Terminal Option Use* manual).

3.3 Down-Line Loading the Server Image

Once you configure the 3270 software in the server image, you need to down-line load that image to the server hardware. The *DECserver 500 Management* manual describes how to down-line load the server image. After the server image is down-line loaded, the server loads the 3270 software onto the CXM04 line card. This line card then becomes operational for the 3270 terminal ports.

Chapter 4 explains how to verify that the 3270 software is installed properly.

4
Verifying the Installation

This chapter describes how to verify the 3270 software installation. The commands described must be issued at a 3270 terminal connected to a CXM04 line card port. The sample installation assumes that the 3270 Terminal Option software is appended to the server image to operate four 3270 terminals on the CXM04 line card (see Chapter 3). These four 3270 terminals can access Digital Equipment Corporation resources on the local area network. The terminals can also access IBM resources through the local IBM cluster control unit (CCU).

The installation verification procedures described in this chapter are not associated with the Installation Verification Procedure in VMSINSTAL (Chapter 2). The procedures here verify specifically that the 3270 software is running properly on the terminal server with the CXM04 line card installed.

The procedures consist of the following tasks:

1. Switching the 3270 terminal from 3270 mode to VT mode
2. Logging in to the server
3. Entering a few server commands

4.1 Switching from 3270 Mode to VT Mode

If your terminal port supports both 3270 mode and VT mode (see Section 3.1), your terminal starts in 3270 mode when you first boot or reboot the server. When your terminal is powered off and powered up again, the mode that you were using at power off remains in effect.

In 3270 mode, the IBM screen is displayed on your screen. To switch from 3270 mode to VT mode, enter the default hot-key sequence ALT + SHIFT. (Hold down the ALT key and press the SHIFT key; then release both keys.) Or, enter the alternative sequence SYSREQ + SYSREQ. If you are using a PC that requires an alternate hotkey sequence, enter ALT + BACKSPACE. You can also use the hot-key sequence alternative SYSREQ + SYSREQ. Refer to the *DECserver 500 Management* manual for additional information about enabling the alternate key.

When you switch to VT mode, your terminal clears the main part of of your 3270 screen. Your terminal then displays "VT Mode" in the bottom left corner of your screen. This area of the screen is known as the operator information area. The *3270 Terminal Option Use* manual describes the VT features that are available to 3270 terminal users. Once "VT Mode" is displayed, you need to log in to your server to use network services.

NOTE

If your terminal is restricted to VT mode or 3270 mode, the hot-key sequence does not switch your terminal to the other mode.

4.2 Logging In to the Server

Once your 3270 terminal is in VT mode, log in to the server by pressing the 3270 key that corresponds to the VT RETURN key (on most 3270 keyboards, this is the NEWLINE key) several times until you get a response. If the log-in password is enabled for your port, the server responds by prompting you with a pound sign as follows:

```
# password (does not display) RET
```

After you enter the log-in password, or if a password was not required, the server displays a log-in message and issues a prompt. The prompt that the server issues depends on whether you defined a permanent user name for your port:

- Local mode prompt: If the server displays the local mode prompt, you can begin entering server commands. A permanent user name is defined for your port.
- User name prompt: If the server prompts you for a user name (Enter username>), you must enter a user name for your port.

If the server prompts you for a user name, enter either a 1- to 20-character name that identifies you to other users on the server. to assign the port name as your user name. You can also use VT CTRL/Z (or the key on your keyboard that corresponds to VT CTRL/Z) to assign the port name as your user name.

In the following example, the user enters "BJ" as the user name:

```
DECserver 500 Terminal Server V2.0 - LAT V5.1
MODERN Server - Don't forget to lock terminal when unattended

Please type HELP if you need assistance

Enter username>  BJ

Local>
```

4.3 Entering a Few Server Commands

Once you get the local mode prompt, you can enter server commands at your 3270 terminal to change port characteristics and to connect to local area network services. In order to connect to a service, you must have one or more of the group codes for the service enabled on your port (see the *DECserver 500 Management* manual). The following command displays port characteristics for your 3270 terminal:

```
Local> SHOW PORT CHARACTERISTICS

Port 3:  Joe Smith                          Server:  LEROY

Flow Control:            XON

Access:                Local                Local Switch:        None
Backward Switch:        None                Name:               LC-1-3
Break:                 Local                Session Limit:           4
Forward Switch:         None                Type:                 ANSI
Mode:                Dynamic                Language:           German

Preferred Service:  BEAUX Node:  BEAUX  Destination:  LTA15

Authorized Groups: 0-10, 20-50, 200-255
(Current)  Groups: 0-10, 20-50, 200-255

Enabled Characteristics:
```

```
Broadcast, Lock, Verification

Local>
```

Refer to the *3270 Terminal Option Use* manual for information about accessing resources on the Ethernet local area network. The *DECserver 500 Use* manual has additional information about accessing resources on the Ethernet local area network. See the server manager if you have problems with the 3270 Terminal Option software.

A
Examples: Installation and Verification

This appendix shows an example of the installation procedure. It also shows verification of the 3270 software by testing a few server commands from a 3270 terminal.

A.1 Sample Installation

The example used in this appendix depicts the successful installation of the 3270 Terminal Option software onto a VMS V5.0 system. The example assumes a single volume distribution medium (magnetic tape) for the 3270 software. For other media types, such as TU58 cartridges, additional prompts during the procedure instruct you to mount the additional volumes.

This example also shows the procedure as Digital Equipment Corporation suggests you run it.

1. Use the option that prints the release notes.
2. Print the release notes.
3. Stop the procedure to read them.
4. Rerun the procedure.

In this example, the procedure assumes that DECnet is running on the load host. Note that the procedure sometimes refers to the 3270 Terminal Option software as CXM.

```
$ SET HOST/LOG BEAUX RET

          Unauthorized access is prohibited

Username: SYSTEM RET
Password: (does not display) RET

   Last interactive login on Thursday, 15-JUL-1989 12:55
   Last non-interactive login on Thursday, 15-JUL-1989 07:47

VMS V5.0 on node BEAUX, Thursday, 15-JUL-1989 12:56

$ SET DEFAULT SYS$UPDATE RET
$ @VMSINSTAL CXM MUA0 OPTIONS N RET

 VAX/VMS Software Product Installation Procedure V5.0


It is 15-JUL-1989 at 13:00.
Enter a question mark (?) at any time for help.

%VMSINSTAL-W-DECNET, Your DECnet network is up and running.

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


Please mount the first volume of the set on MUA0:.
* Are you ready [YES]? RET

%MOUNT-I-MOUNTED, CXM mounted on _GAMA$MUA0:
The following products will be processed:

  CXM V1.0


 Beginning installation of CXM V1.0 at 13:02

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

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]: 2 RET
* Queue name [SYS$PRINT]: RET
Job CXM010.RELEASE_NOTES (queue SYS$PRINT, entry 324) started on SYS$PRINT
* Do you want to continue the installation [N]? RET

     VMSINSTAL procedure done at 14:09
```

Read the release notes. Run VMSINSTAL again:

```
$ @VMSINSTAL CXM MUA0 RET

 VAX/VMS Software Product Installation Procedure V5.0

It is 15-JUL-1989 at 14:50.
Enter a question mark (?) at any time for help.

%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
* Do you want to continue anyway [NO]? Y RET

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

* Are you ready? [YES] RET
%MOUNT-I-MOUNTED, CXM mounted on _GAMA$MUA0:

The following products will be processed:

  CXM V1.0

 Beginning installation of CXM V1.0 at 14:51

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
%VMSINSTAL-I-RELMOVED, The product's release notes have been successfully
moved to SYS$HELP.
* Do you want to purge files replaced by this installation [YES]? RET
* Do you want to run the IVP after the installation [YES]? RET

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

                        3270 Terminal Option V1.0

  Beginning installation verification procedure for 3270 Software

/\/\/\
```

```
                    3270 Terminal Option V1.0

Your installation verification is now complete.  Be sure to install
the DECserver 500 software if you have not done so already.

If the DECserver 500 V2.0 software is already installed, the system manager
must now run TSC or TSM to reconfigure the DECserver 500 V2.0 software to
include the 3270 software.

 Installation of CXM V1.0 completed at 13:32

        VMSINSTAL procedure done at 13:32
```

A.2 Sample of Appending 3270 Software

This example shows how to configure the DECserver 500 software so that TSC appends the 3270 Terminal Option software to the server image. The following command appends the 3270 software. The command also configures the 3270 software so that four 3270 terminals connected to the CXM04 line card can operate in VT mode and IBM mode (dynamic mode):

```
TSC> DEFINE DEVICE LC1 TYPE CXM04 CONFIGURATION 4 RET
```

Refer to the *DECserver 500 Management* manual for additional information about how the CXM04 line card operates.

A.3 Sample Verification

This example shows verification of the 3270 software installation.

This example assumes the following:

- You as the installer configured the DECserver 500 V2.0 software so that four 3270 terminals attached to the CXM04 line card can operate in dynamic mode (see Section A.2).
- You are at a 3270 terminal connected to a CXM04 line card port on a terminal server.
- You powered on your 3270 terminal.
- You switched your 3270 terminal to VT mode (Section 4.1).

The following example displays logging in to the server with BILLYJO as the user name. Next, the example shows the SHOW DEVICES command to look at the line-card devices on your server. Finally, the example shows the SHOW SERVICES command to look at the network services available to you.

You activate the VT RETURN key, RET, by pressing the equivalent 3270 key, which on most keypads is the NEWLINE key.

```
RET
RET
DECserver 500 Terminal Server V2.0 - LAT V5.1
MODERN Server - Don't forget to lock terminal when unattended

Please type HELP if you need assistance

Enter username>  BILLYJO RET
Local> SHOW DEVICES RET

Device  Device  Port    Device      CSR      Vector   Total   Slot
Name    Type    List    Status      Address  Address  Errors

CONSOLE DL      0       Running     177560   60           0    1
NETWORK DESQA           Running     174440   120          0    2
LC1     CXA16   1-16    Running     160440   310          0    3
LC2     CXM04   17-20   Running     160460   320          0    4
LC3     CXM04   33-36   Running     160500   330          0    5
LC4     CXA16   49-64   Running     160520   340          0    6
LC5     CXA16   65-80   Running     160540   350          0    7
LC6     CXA16   81-96   Failed      160560   360          0    8
LC7     CXA16   97-112  Running     160600   370          0    9
LC8     CXM04           Fm Fail     160620   400          0   10
LC9     CXM04           Standby     160640   410          0   11
LC10    CXM04           Wrg Typ     160660   420          0   12


Local> SHOW SERVICES RET

Service Name         Status       Identification

DEVELOP           2 Connected    Hardware Timesharing Service Ident
DOCUMENT            Available    Documentation Timesharing
TEST                Unavailable  As usual
TIMESHARING         Unknown      Server Software Development
SYSTEM              Available    VAX/VMS 8600
```

See the *DECserver 500 Use* manual for information about connecting to a service.

To cancel a local command and return to local mode, enter the 3270 key that corresponds to the VT BREAK key.

To log out from VT mode, enter LOGOUT at the local prompt.

To return to 3270 mode, enter the default hot-key sequence ALT + SHIFT. (Hold down the ALT key and press the SHIFT key; then release both keys.) Or, enter the alternative sequence SYSREQ + SYSREQ. If you are using a PC that requires an alternate hotkey sequence, enter ALT + BACKSPACE. You can also use the hot-key sequence alternative SYSREQ + SYSREQ. Refer to the *DECserver 500 Management* manual for additional information about enabling the alternate key.

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