Installation Guide

Order No. AA-LN26B-TE

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OPERATING SYSTEM AND VERSION:	VAX/VMS V5.0
SOFTWARE VERSION:	VAX Wide Area Network Device Drivers V1.1

digital™

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How to Use This Manual

Manual Objectives

This manual describes how to install VAX WAN Device Drivers V1.1 on a VAX/VMS system, and is intended for anyone conducting the installation.

Associated Documents

For reference information, see the following documents:

- The two companion volumes contained in this binder:
  - *VAX Wide Area Network Device Drivers V1.1 Specifications*
  - *VAX Wide Area Network Device Drivers V1.1 Programmer's Guide*
- *VMS Install Utility Manual*
- *VMS License Management Utility Manual*

Conventions Used in this Manual

Convention	Meaning
Red print	Indicates text that you enter.
`Plain Text`	Indicates what appears on the screen.
Italic	Indicates variable information.

Convention	Meaning
<RET>	Indicates that you should press the RETURN key.
<CTRL/X>	Indicates that you should simultaneously press the CTRL key and the keyboard character shown.

1
Installation Preparations

1.1 Introduction

This manual tells you how to install drivers from the VAX Wide Area Network (WAN) Device Drivers V1.1 kit. You must install the VAX WAN Device Drivers kit before installing any of the layered products which use the device drivers.

You can install the kit on any system running VAX/VMS V5.0 or later. If you want to install the kit on a cluster, you can work from any node in that cluster.

The full installation procedure has 2 steps:

1. Preparation
2. Installation

The rest of this manual tells you the commands required to begin these steps. You should then perform the actions or enter the information requested by each prompt. This manual does not describe each prompt in turn, though Appendix A contains an example installation. You can get help at any time during the installation by entering a question mark (?).

1.2 Preparation

The VAX WAN Device Drivers kit is supplied on the following media:

- 1 x RX33 diskette
- 1 x TK50 tape cassette
- 1 x 1600 bpi magnetic tape

Before beginning the VAX WAN Device Drivers V1.1 kit installation, please complete all the steps described in this section.

1. Log in to the SYSTEM account, or an account with similar privileges and quotas.
2. Check that you have enough space available for the installation. Enter this command:

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

   Check the number of free blocks. A VAX WAN Device Drivers V1.1 kit needs a maximum of 2000 free blocks for successful installation, but the final amount of space used depends on the drivers you install.

Installation takes up to 15 minutes depending on the number of drivers you need and the speed of the CPU on which you are performing the installation.

During the installation, you will be asked whether you want to run the Installation Verification Procedure (IVP) or not. The IVP checks that the files have been copied correctly. If you want to check that the drivers and hardware are working properly, run the IVP for the layered product.

2

How to Install the VAX WAN Device Drivers V1.1 Kit

The VAX WAN Device Drivers V1.1 kit supports the License Management Facility features provided by VMS. Before you attempt to install the kit, you must register a Product Authorization Key (PAK). To register the PAK (which is provided with the kit), enter the following command:

```
$ @SYS$UPDATE:VMSLICENSE
```

See the *VMS License Management Utility Manual* for information about this command procedure and the management features of LMF.

1. Begin the installation by entering the command:

   ```
   $ @SYS$UPDATE:VMSINSTAL SYNC011 kitdevice: OPTIONS N
   ```

   kitdevice is the device from which you are installing the VAX WAN Device Drivers V1.1 kit, such as MUA1:. OPTIONS N lets you obtain the release notes, and you are given the option of stopping the installation to read them. If you omit this portion of the command, the installation proceeds without reference to the release notes.

2. **Read through the release notes before you continue with the installation.**

3. Follow the directions shown on your terminal. For reference, Appendix A contains an example dialog. Type a question mark (?) at any prompt if you are unsure about the information required.

4. The installation procedure asks you to select devices from a menu. Enter as many as you require, separating the menu numbers with commas. When you have completed the entry, the menu is redisplayed and selected devices are marked with an asterisk. If you make a mistake, select the exit option and start again.

5. After you have installed the drivers and any layered products that use the drivers, you must reboot your system. On a VAXcluster, reboot each node in the cluster that has a synchronous communications device for which you have installed a driver.

After the installation, SYS$TEST contains an Installation Verification Procedure (SYNC$IVP.COM), even if you did not choose to run the IVP during the installation. You may use SYNC$IVP.COM at any time to check that your drivers are still present on the system by entering the command:

```
$ @SYS$TEST:SYNC$IVP
```

A
Example Installation Dialog

The following is an example VAX WAN Device Drivers kit installation:

```
$ @sys$update:vmsinstal sync011 jupitr$dua2: options n

 VAX/VMS Software Product Installation Procedure V5.0-2

It is 11-OCT-1988 at 12:16.
Enter a question mark (?) at any time for help.

Please mount the first volume of the set on  JUPITR$DUA2:.
* Are you ready? y
%MOUNT-I-MOUNTED, SYNC01       mounted on _JUPITR$DUA2:
The following products will be processed:
  SYNC V1.1

       Beginning installation of SYNC V1.1 at 12:17

%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 [2]: 4
* Do you want to continue the installation? yes
%VMSINSTAL-I-RELMOVED , The product's release notes have been successfully
  moved to SYS$HELP.

       VAX WAN Device Drivers Kit Installation Procedure V1.1


        Product:      WAN-DEVICE-DRIVERS
        Producer:     DEC
        Version:      1.1
        Release Date: 30-JUN-1988

* Does this product have an authorization key registered and loaded? yes
* Do you want to run the IVP after the installation [YES]?

*       Is this machine a member of a VAXcluster [YES]?

*       Do you have any MicroVAXes in your VAXcluster [YES]?
```

```
        Please select device type from menu. (1..13)
        Enter numbers for devices singly or in a list separated by
        commas. Finish with the number for EXIT and press <RET>.
        You can correct mistakes at a later prompt.

Valid devices for MicroVAX:     1)      DPV11
                                2)      DMV11
                                3)      KMV1A
                                4)      DSV11
                                5)      DST32

Valid devices for VAXBI:        6)      DMB32
                                7)      DSB32

Valid devices for UNIBUS:       8)      DUP11
                                9)      DMF32
                                10)     KMS11-BD
                                11)     KMS1P
                                12)     DMC11/DMR11

To install chosen drivers:      13)     EXIT

* NUMBER(s): 4,5,6,7

                                DSV11 selected.
                                DST32 selected.
                                DMB32 selected.
                                DSB32 selected.

        Please select device type from menu. (1..13)
        Enter numbers for devices singly or in a list separated by
        commas. Finish with the number for EXIT and press <RET>.
        You can correct mistakes at a later prompt.

Valid devices for MicroVAX:     1)      DPV11
                                2)      DMV11
                                3)      KMV1A
                                4)      DSV11 *
                                5)      DST32 *

Valid devices for VAXBI:        6)      DMB32 *
                                7)      DSB32 *

Valid devices for UNIBUS:       8)      DUP11
                                9)      DMF32
                                10)     KMS11-BD
                                11)     KMS1P
                                12)     DMC11/DMR11

To install chosen drivers:      13)     EXIT

* NUMBER(s): 9,13

                                DMF32 selected.
                                Exit  selected.

*       Any changes required [NO]?

* Do you want to purge files replaced by this installation [YES]? no

*       To use the drivers you have installed, reboot the system.
        Either VMS or the layered product will automatically load the
        driver(s) at system boot-time.

*       In a VAXcluster environment, the driver image is installed
        into a cluster-wide directory.  You must reboot all nodes in
        the VAXcluster with these devices.

*       No more questions will be asked during this installation.
        Depending on the number of drivers selected, the installation
        can take up to 15 minutes.
```

```
*       Installed device(s) are:    DSV11
                                    DST32
                                    DMB32
                                    DSB32
                                    DMF32

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

Beginning VAX WAN Device Drivers V1.1 Installation Verification Procedure

%ANALYZE-I-ERRORS, $1$DUA1:[SYS2.SYSCOMMON.SYS$LDR]SJDRIVER.EXE;121  0 errors
%ANALYZE-I-ERRORS, $1$DUA1:[SYS2.SYSCOMMON.SYS$LDR]ZSDRIVER.EXE;7    0 errors
%ANALYZE-I-ERRORS, $1$DUA1:[SYS2.SYSCOMMON.SYS$LDR]SIDRIVER.EXE;18   0 errors
%ANALYZE-I-ERRORS, $1$DUA1:[SYS2.SYSCOMMON.SYS$LDR]SLDRIVER.EXE;3    0 errors
%ANALYZE-I-ERRORS, $1$DUA1:[SYS2.SYSCOMMON.SYS$LDR]XGDRIVER.EXE;2    0 errors

The IVP for VAX WAN Device Drivers V1.1 was successful

        Installation of SYNC V1.1 completed at 12:28

        VMSINSTAL procedure done at 12:29

$ logout
  SYSTEM       logged out at 11-OCT-1988 13:31:48.26
```

B
Installed Device Driver Files

Table B–1 Installed Device Driver Files

Filename	Location	Description
PSI$KMVPRO.EXE	SYS$LOADABLE_IMAGES	KMV1A softload microcode image
PSI$KMXDIA.EXE	SYS$LOADABLE_IMAGES	KMS11-BD diagnostic microcode image
PSI$KMXPDM.EXE	SYS$LOADABLE_IMAGES	KMS11-BD softloaded microcode image
PSI$KMXPRO.EXE	SYS$LOADABLE_IMAGES	KMS11-BD softloaded microcode image
PSI$KMYDIA.EXE	SYS$LOADABLE_IMAGES	KMS1P diagnostic microcode image
PSI$KMYPDM.EXE	SYS$LOADABLE_IMAGES	KMS1P softloaded microcode image
PSI$KMYPRO.EXE	SYS$LOADABLE_IMAGES	KMS1P softloaded microcode image
SIDRIVER.EXE	SYS$LOADABLE_IMAGES	DMB32 sync. port driver image
SIDRIVER.STB	SYS$LOADABLE_IMAGES	DMB32 sync. port driver symbol table
SJDRIVER.EXE	SYS$LOADABLE_IMAGES	DSV11 driver image

Table B–1 (Cont.) Installed Device Driver Files

Filename	Location	Description
SJDRIVER.ULD	SYS$LOADABLE_IMAGES	DSV11 softloaded microcode image
SLDRIVER.EXE	SYS$LOADABLE_IMAGES	DSB32 driver image
SLDRIVER.ULD	SYS$LOADABLE_IMAGES	DSB32 softloaded microcode image
UEDRIVER.EXE	SYS$LOADABLE_IMAGES	DPV11 driver image for VAX PSI
UFDRIVER.EXE	SYS$LOADABLE_IMAGES	DPV11 driver image for VAX 2780/3780
UGDRIVER.EXE	SYS$LOADABLE_IMAGES	DPV11 driver image for VAX 3271
UHDRIVER.EXE	SYS$LOADABLE_IMAGES	DPV11 driver image for VMS/SNA
UVDRIVER.EXE	SYS$LOADABLE_IMAGES	KMV1A driver image
XDDRIVER.EXE	SYS$LOADABLE_IMAGES	DMV11 driver image
XGDRIVER.EXE	SYS$LOADABLE_IMAGES	DMF32 sync. port driver image
XJDRIVER.EXE	SYS$LOADABLE_IMAGES	DUP11 driver image for VAX 2780/3780
XKDRIVER.EXE	SYS$LOADABLE_IMAGES	DUP11 driver image for VAX 3271
XMDRIVER.EXE	SYS$LOADABLE_IMAGES	DMC11/DMR11 driver image
XNDRIVER.EXE	SYS$LOADABLE_IMAGES	KMS1P driver image
XSDRIVER.EXE	SYS$LOADABLE_IMAGES	KMS11-BD driver image
XWDRIVER.EXE	SYS$LOADABLE_IMAGES	DUP11 driver image for VAX PSI
ZSDRIVER.EXE	SYS$LOADABLE_IMAGES	DST32 driver image
SYNC$IVP.COM	SYS$TEST	Installation verification procedure
UETDMBS00.EXE	SYS$TEST	UETP for DMB32 sync. port
UETDSBS00.EXE	SYS$TEST	UETP for DSB32
UETDSVS00.EXE	SYS$TEST	UETP for DSV11

Table B–1 (Cont.) Installed Device Driver Files

Filename	Location	Description
SI$LIB.MLB	SYS$LIBRARY	MACRO library file containing the $SIDEF macro
SI$DEF.SDL	SYS$LIBRARY	Software design language definitions of SI$ symbols
SI$DEF.R32	SYS$LIBRARY	BLISS library file generated from SI$LIB.R32 file