System Support Addendum

PRODUCT NAME: VAX Wide Area Network (WAN) Device Drivers, Version 1.1B SSA 29.64.02-A

HARDWARE REQUIREMENTS

Processors Supported:

VAX: VAX 4000 Model 200,
VAX 4000 Model 300

VAX 6000 Model 200 Series,
VAX 6000 Model 300 Series,
VAX 6000 Model 400 Series,
VAX 6000 Model 500 Series

VAX 8200, VAX 8250, VAX 8300, VAX 8350,
VAX 8530, VAX 8550, VAX 8600, VAX 8650,
VAX 8700, VAX 8800, VAX 8810, VAX 8820,
VAX 8830, VAX 8840

VAX 9000 Model 210,
VAX 9000 Model 400 Series

VAXft 3000-310

VAX-11/730, VAX-11/750,
VAX-11/780, VAX-11/785

MicroVAX: MicroVAX II, MicroVAX 2000,
MicroVAX 3100, MicroVAX 3300,
MicroVAX 3400, MicroVAX 3500,
MicroVAX 3600, MicroVAX 3800,
MicroVAX 3900

VAXstation: VAXstation II,
VAXstation 3200, VAXstation 3500,
VAXstation 3520, VAXstation 3540

VAXserver: VAXserver 3100, VAXserver 3300,
VAXserver 3400, VAXserver 3500,
VAXserver 3600, VAXserver 3602,
VAXserver 3800, VAXserver 3900

VAXserver 4000-300,
VAXserver 6000-210, VAXserver 6000-220,
VAXserver 6000-310, VAXserver 6000-320,
VAXserver 6000-410, VAXserver 6000-420,
VAXserver 6000-510, VAXserver 6000-520

Processors Not Supported:

MicroVAX: MicroVAX I

VAXstation: VAXstation I, VAXstation 2000,
VAXstation 3100 Series,
VAXstation 8000

VAX: VAX 11/725, VAX 11/782

Each system on which the VAX Wide Area Network (WAN) Device Drivers software is installed must contain:

- A valid system configuration for the VMS Operating System
- One of the synchronous device options supported by VAX WAN Device Drivers
- One 1600 BPI (PE) magnetic tape drive, TK50 drive or CDROM reader available to read the software during installation

Disk Space Requirements

Block Space Requirements (Block Cluster Size = 1):

Disk space required for installation:	2,000 blocks (1M byte)

The disk space required for use (permanent) depends on the number and type of drivers installed, but should not exceed the space required for installation.

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

digital™

May 1991
AE-LN83D-TE

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration. A device driver may only be accessed from the system, or node, containing the communications device. The *HARDWARE REQUIREMENTS* sections of this product's Software Product description and System Support Addendum detail any special hardware required by this product.

* V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

On common disks, in order to configure some product specific attributes that must remain unique to each system, certain components of the product are stored in the system specific environment (SYS$SPECIFIC:[SYSxxx]) of the VAX computer on which the installation is being performed. The remaining components of the product, including some or all of the executable images, will be installed common to all accessing VAX systems.

Though some or all of the product's executable images will exist in the common system directory (SYS$COMMON:[SYSLDR]) and be executable by all VAX computers sharing this directory, it is essential that the product be installed separately on all VAXcluster or Local Area VAXcluster licensed VAX systems requiring access in order to uniquely configure the product for each.

The same version of VAX WAN Device Drivers must be used on all systems in VAXcluster systems accessing a common disk and in Local Area VAXcluster configurations.

SOFTWARE REQUIREMENTS

VMS Operating System V5.0 - V5.4

VMS Tailoring

The following VMS classes are required for full functionality of this layered product:

- VMS Required Saveset
- Network Support
- Programming Support

For more information on VMS classes and tailoring, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) .

OPTIONAL SOFTWARE

DECnet-VAX V5.1 - V5.4 (SPD 25.03.xx)
VAX Packetnet System Interface (P.S.I.) V4.2 - V4.3 (SPD 25.40.xx)
VMS/SNA V1.3 - V2.1 (SPD 27.01.xx)
VAX 2780/3780 Protocol Emulator V1.7 (SPD 25.07.xx)
VAX 3271 Protocol Emulator V2.5 (SPD 25.21.xx)

Certain versions of these products may depend upon a specific version of the operating system. Refer to the System Software Addendum of the product in question to determine which version is required.

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future versions of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

9-track 1600 BPI Magtape (PE), TK50 Streaming Tape

This product is also available as part of the VMS Consolidated Software Distribution on CDROM.

ORDERING INFORMATION

Software Licenses: QL-VAWA*-**
Software Media: QA-VAWA*-**
Software Documentation: QA-VAWAA-GZ
Software Product Services: QT-VAWA*-**

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

Table 1
Synchronous Device Driver Characteristics

Device	Driver	Maximum Line Speeds for Supported Protocols (Kbps)					$QIO
	Mnemonic	DDCMP	HDLC	SDLC	Bisync	Genbyte	Interface
DMB32	SI	19.2	38.4	38.4	19.2	9.6	Yes
DMC11	XM	1000	-	-	-	-	Yes
DMF32	XG	19.2	19.2	-	-	9.6	Yes
DMR11	XM	1000	-	-	-	-	Yes
DMV11	XD	56	-	-	-	-	Yes
DPV11	UE	-	9.6	-	-	-	No
DPV11	UG	-	-	-	9.6	-	No
DPV11	UH	-	-	9.6	-	-	No
DSB32	SL	64/64	192/64	192/64	-	-	Yes
DSF32	SF/SM	64/64	64/64	64/64	19.2/9.6	-	Yes
DSH32	ZS	19.2/9.6	19.2/9.6	19.2/9.6	-	-	Yes
DST32	ZS	9.6	19.2	19.2	-	-	Yes
DSV11	SJ	256/64	256/64	256/64	19.2/9.6	-	Yes
DUP11	XJ	-	-	-	9.6		No
DUP11	XW	-	9.6	-	-	-	No
KMS11-BD	XS	-	19.2	-	-	-	See Notes
KMS1P	XN	-	56	-	-	-	See Notes
KMV1A	UV	-	19.2	-	-	-	See Notes

Notes:

- Where two line speeds are shown, for example 256/64, the higher speed refers to single line operation of the device while the lower speed refers to dual line operation of the device.
- The DMB32 (SIDRIVER) only supports a synchronous line speed of 19.2 Kbps if any asynchronous lines are in use. On BI machines and machines which use an XMI to VAXBI adapter, the maximum synchronous line speed is 38.4 Kbps.
- The DMF32 (XGDRIVER) is supported on a VAXBI system fitted with a DWBUA UNIBUS adapter for DDCMP and Genbyte protocol use only.
- The DMR11 (XMDRIVER) is supported on a VAXBI system fitted with a DWBUA UNIBUS adapter. Refer to the DECnet-VAX SPD (25.03.xx) for more information.
- The DMV11 (XDDRIVER) also supports DDCMP multipoint controller operation.
- There are three Device Drivers for the DPV11 (UEDRIVER, UGDRIVER and UHDRIVER), one for each supported protocol. Only one Device Driver may be used at a time.
- The DSH32 (ZSDRIVER) running the DDCMP protocol only supports a single line at 9.6 Kbps on a MicroVAX 2000.
- The DSV11 (SJDRIVER), DSB32 (SIDRIVER) and DSF32 (SF/SMDRIVER) support the use of different protocols on each of the two lines of the device.
- There are two Device Drivers for the DUP11 (XJDRIVER and XWDRIVER), one for each supported protocol. Only one Device Driver may be used at a time.
- The DUP11 (XJDRIVER for Bisync) is supported on a VAXBI system fitted with a DWBUA UNIBUS adapter for VAX 8200, VAX 8250, VAX 8300, VAX 8350, VAX 8500, VAX 8530, VAX 8550, VAX 8700 and VAX 8800 systems only.
- The KMS11-BD is an eight-line device. All eight lines can be used at the maximum permitted line speed. Refer to the Load Tables contained in the VAX P.S.I. Software Product Description for Load Units for this device.

- Only the RS232 variant of the KMV1A is supported by the this Device Driver.
- There are alternative device drivers available for the KMS11-BD, KMS1P and KMV1A, which have a supported User ($QIO) interface. These are not included with the VAX WAN Device Drivers. Contact your local Digital office for more information.

Table 2
Supported Processor and Device Combinations

CPU	Supported Device(s)
MicroVAX 2000	DSH32, DST32
MicroVAX 3100	DSH32
MicroVAX II	DMV11, DPV11-DA DSV11, KMV1A-A
MicroVAX 3300, MicroVAX 3400	DMV11, DPV11-S, DSV11
MicroVAX 3500, MicroVAX 3600	DMV11, DPV11-S, DSV11, KMV1A-SF
MicroVAX 3800, MicroVAX 3900	DMV11, DPV11-S, DSV11
VAXstation II	DMV11, DSV11, KMV1A-A
VAXstation 3200	DMV11, DPV11-S, DSV11, KMV1A-SF
VAXstation 3500	DMV11, DPV11-DA, DSV11, KMV1A-A
VAXstation 3520, VAXstation 3540	DMV11, DPV11-DA, DSV11
VAXserver 3100	DSH32
VAXserver 3300, VAXserver 3400	DMV11, DPV11-S, DSV11
VAXserver 3500, VAXserver 3600	DMV11, DPV11-S, DSV11, KMV1A-SF
VAXserver 3800, VAXserver 3900	DMV11, DPV11-S, DSV11
VAXserver 4000 Model 300	DMV11, DPV11-S, DSV11
VAXserver 6000 210/220	DMB32, DSB32
VAXserver 6000 310/320	DMB32, DSB32
VAXserver 6000 410/420	DMB32, DSB32
VAXserver 6000 510/520	DMB32, DSB32
VAXft 3000-310	DSF32
VAX 4000 Model 200	DMV11, DPV11-S, DSV11
VAX 4000 Model 300	DMV11, DPV11-S, DSV11
VAX 6000 Model 200 Series	DMB32, DSB32
VAX 6000 Model 300 Series	DMB32, DSB32
VAX 6000 Model 400 Series	DMB32, DSB32
VAX 6000 Model 500 Series	DMB32, DSB32
VAX 8200, VAX 8250, VAX 8300, VAX 8350	DMB32, DSB32
VAX 8500, VAX 8530, VAX 8550, VAX 8700	DMB32, DSB32

Table 2 (Cont.)
Supported Processor and Device Combinations

CPU	Supported Device(s)
VAX 8800, VAX 8810, VAX 8820, VAX 8830	DMB32, DSB32
VAX 8840, VAX 8842, VAX 8974, VAX 8978	DMB32, DSB32
VAX 9000 Model 210	DMB32, DSB32
VAX 9000 Model 400 Series	DMB32, DSB32
VAX-11/730, VAX 11/750	DMC11, DMF32, DMR11, DUP11, KMS1P-A/B, KMS11-B
VAX-11/780, VAX 11/785	DMC11, DMF32, DMR11, DUP11, KMS1P-A/B, KMS11-B
VAX 8600, VAX 8650	DMC11, DMF32, DMR11, DUP11, KMS1P-A/B, KMS11-B

The information in this document is valid at the time of release. Please contact your local Digital office for the most up-to-date information.

® IBM is a registered trademark of International Business Machines Corporation.

™ The DIGITAL Logo, BI, CI, DECnet-VAX, MicroVAX, Q-bus, TK, UNIBUS, VAX, VAXcluster, VAXBI, VAXft, VAXstation and VAXserver are trademarks of Digital Equipment Corporation.