System Support Addendum

PRODUCT NAME: VAXELN Toolkit, Version 4.2 **SSA 28.02.12-A**

HARDWARE REQUIREMENTS

Host Processors Supported

VAX: VAX 4000 Model 300,
VAX 6000 Model 200 Series,
VAX 6000 Model 300 Series,
VAX 6000 Model 400 Series

VAX 8200, VAX 8250, VAX 8300, VAX 8350, VAX 8500, VAX 8530, VAX 8550, VAX 8600, VAX 8650, VAX 8700, VAX 8800, VAX 8810, VAX 8820, VAX 8830, VAX 8840, VAX 8842, VAX 8974, VAX 8978

VAX 9000 Model 210,
VAX 9000 Model 410

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 2000, VAXstation 3100, VAXstation 3200, VAXstation 3500, VAXstation 3520, VAXstation 3540

Processor Restriction

The VAX-11/782 processor is not supported by VMS Operating System V5.x.

Host system block space requirements (Block Cluster Size = 1):

Disk space required for installation:	42,000 blocks (21.3M bytes)
(If DECwindows is supported:)	72,000 blocks (36.5M bytes)
Disk space required for use (permanent):	34,000 blocks (17.3M bytes)
(If DECwindows is supported:)	68,000 blocks (34.6M bytes)

These block 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 selected.

Target Processors Supported

VAX: VAX 4000 Model 300,
VAX 6000 Model 200 Series,
VAX 6000 Model 300 Series,
VAX 6000 Model 400 Series

VAX 8200, VAX 8250, VAX 8500, VAX 8530, VAX 8550, VAX 8700, VAX 8800, VAX 8810

VAX-11/730, VAX-11/750

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

Board Products: KA620-BA, rtVAX 300, KA800-M

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rtVAX Products:	rtVAX 1000, rtVAX 3200, rtVAX 3300, rtVAX 3400, rtVAX 3500, rtVAX 3600, rtVAX 3800, rtVAX 4000 Model 300, rtVAX 6000 Models 200, 300 and 400 Series, rtVAX 8550, rtVAX 8700, rtVAXstation 3100 Models 30 and 38, rtVAX 3305
IVAX Products:	IVAX 620, IVAX 630
VAXstation:	VAXstation 2000, VAXstation 3100 VAXstation 3150, VAXstation 3200, VAXstation 3500, VAXstation II/GPX

Note:

In addition to the support of these color monitor VAXstations, monochrome support is also provided for VAXstations 2000 and 3100. The WS01X-GA/GB Graphics Coprocessor Option(SPX) is supported for the VAXstation 3100 Models 30/40 and 38/48.

VAXserver:	VAXserver 3100, VAXserver 3300, VAXserver 3400, VAXserver 3500, VAXserver 3600, VAXserver 3602, VAXserver 3800, VAXserver 3900
	VAXserver 6000-210, VAXserver 6000-220, VAXserver 6000-310, VAXserver 6000-320, VAXserver 6000-410, VAXserver 6000-420

Not Supported as Targets

VAX:	VAX 6312, VAX 6333, 8300, VAX 8350, VAX 8600, VAX 8650, VAX 8820, VAX 8830, VAX 8840, VAX 8842, VAX 8974, VAX 8978
	VAX-11/780, VAX-11/782, VAX-11/785
VAXstation:	VAXstation II, VAXstation 3520, VAXstation 3540, VAXstation 8000

A VAXELN target system typically requires a memory configuration of 1MB and a ROM based application could have as little as 256K bytes of physical memory on the target system depending on the size of the user's programs and on the Toolkit components that are included.

The target computer must have a load device for loading the VAXELN system image. The load device is either a Files-11 disk, TU58 cartridge tape, TK70, TK50 or Ethernet adapter (for downline loading). VAXELN systems can also be placed into ROM.

OPTIONAL HARDWARE

Device drivers or device interface routines are supplied in the Toolkit for the following devices:

Supported MicroVAX (Q22) Devices

- ADQ32 Analog-to-digital converter
- ADV11-C, AXV11-C, and KWV11-C realtime devices
- ADV11-D 16 channel, 12 bit A/D converter with DMA
- Console terminal
- CXA16 Sixteen-line asynchronous multiplexer (DEC423)
- CXB16 Sixteen-line asynchronous multiplexer (RS422)
- CXY08 eight-line asynchronous multiplexer with modem control (RS232)
- DELQA Ethernet-to-Q22 adapter
- DEQNA Ethernet-to-Q22 adapter
- DESQA ThickWire/ThinWire Ethernet-to-Q22 adapter
- DHV11 eight-line asynchronous multiplexer with modem support
- DHQ11 supported in DHV11 mode only
- DLVJ1 or DLV11-J asynchronous serial controller
- DRQ3B or DRQ3B-SA 16 bit parallel I/O with DMA
- DRV11-WA and DRV11-J parallel line interface
- DZV11 or the DZQ11-SA four-line asynchronous multiplexer
- IEQ11 IEEE-488 bus controller
- KDA50 Q-bus Disk Adapter for up to four Digital Storage Architecture (DSA) disks (RA60, RA70, RA81, RA82 or RA90)
- KFQSA-SA DSSI controller for RF30, RF31, RF70
- LPV11 line printer controller
- MRV11-D ROM option board
- MS630 Memory board for the MicroVAX II
- MS650 Memory board for the MicroVAX 3500 and MicroVAX 3600
- RQC25 fixed/removable disk subsystem for the RC25
- RQDX1, RQDX2 or RQDX3 disk controller with the following drives as appropriate: RX23, RX33, RX50, RD31, RD32, RD51, RD52, RD53, RD54
- TQK50 for the TK50 Streaming Tapes
- TQK70 for the TK70 Streaming Tapes
- TU81 Plus, TU81 and TU81E Reel to Reel Tapes
- RV20 Write-once Optical Drive

Supported UNIBUS Devices

- Console terminal

- DEUNA or DELUA UNIBUS-to-Ethernet adapter
- DMF32 multi-function board (LP-32 line printer, asynchronous-line and modem support.)
- IEU11 IEEE-488 bus controller
- R80/RL02 combined disk drives (VAX-11/730)
- RUC25 fixed/removable disk subsystem for the RC25
- TU58 cartridge tape
- TU81, TU81E, TU81-PLUS reel to reel tape
- RV20 Write-once Optical Drive
- UDA50 Disk Adapter and up to four Digital Storage Architecture (DSA) disks (RA80, RA81, RA82 or RA60)

Supported VAXBI Devices

- DB88 Additional VAXBI channels
- DEBNA Ethernet-to-VAXBI adapter
- DEClancontroller 200 (DEBNI) High performance VAXBI Ethernet controller.
- DMB32 Asynchronous serial lines, line printer support and modem support
- MS820 VAXBI memory option
- DRB32-E, -M or -W high speed parallel port interface (DMA)
- DWBUA VAXBI -to-UNIBUS adapter
- KDB50 VAXBI -to-RA series disk adapter
- TU81 Plus, TU81 and TU81E Reel to Reel Tapes
- RV20 Write-once Optical Drive

Supported Devices for Busless Systems

- DHT32 eight line serial port option (MicroVAX 2000)
- DSH32 eight asynch serial lines (synch line not supported) (VAXstation 3100)

Supported SCSI Devices

- A disk class driver is included for the VAXstation 3100 that supports the RZ22, RZ23, RZ23L, RZ55 and RZ56 hard disks, the RZ23 diskette drive and the RRD40 compact disk.

Supported XMI Bus Devices

- DEC LANcontroller 400 (DEMNA) Ethernet-to-XMI adapter
- MS65A Memory

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration without restrictions. 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.

SOFTWARE REQUIREMENTS

For Host Development System

VMS Operating System V4.7 - V5.4 (V5.1 if DECwindows is used)

MicroVMS Operating System V4.7

VMS Tailoring

For VMS V5.x systems, The following VMS classes are required for full functionality of this layered product:

- VMS Required Saveset
- Network Support (If using the VAXELN Remote Debugger feature.)
- Programming Support (Required if VAX C, VAX Ada, VAX FORTRAN or VAX Rdb/ELN are installed.)
- Utilities

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

MicroVMS Tailoring

- Base System
- Common Utilities
- Program Development

For Target System

None

OPTIONAL SOFTWARE

Development Environment

- DECnet-VAX (V4.6 - V5.4) is required for downline loading, remote debugging, and communication between VAXELN and VMS.
- The VAX C (V2.4 - V3.1) compiler is required if C is used for VAXELN program development.

- The VAX FORTRAN (V4.4 - V5.5) compiler is required if FORTRAN is used for VAXELN program development.
- The VAX Ada (V1.4 - V2.1) compiler and VAXELN Ada (V2.0) is required if Ada is used for VAXELN program development.
- To make use of the Language-Sensitive Editor template for EPascal, the VAX Language-Sensitive Editor (V3.0) is required.
- VAX Rdb/ELN (V2.2) is required for developing VAX Rdb/ELN databases.
- VAX TRA (V2.0A) is required for VAX RTA applications.

Target Environment

- VAX Rdb/ELN (V2.2) Target System License is required for realtime database applications.

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

Tape: 9-track 1600 BPI Magtape (PE), TK50/70 Streaming Tape

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

ORDERING INFORMATION

For VAXELN Toolkit

Software Licenses: QL-375A*-**
Software Media: QA-375A*-**
Software Documentation: QA-375AA-GZ
Source Kit: QA-375AA-C*
Software Product Services: QT-375A*-**

For VAXELN Runtime System

Software Licenses: QL-376A*-**

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

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

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