System Support Addendum

PRODUCT NAME: DEComni/VMS, Version 1.1 (Digital's OSI Manufacturing Network Interconnect) **SSA 32.32.01-A**

HARDWARE REQUIREMENTS

Processors Supported

VAX: VAXft 3000,
VAX 4000 Model 200 Series,
VAX 4000 Model 300 Series,
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 8500, VAX 8530, VAX 8550, VAX 8600, VAX 8650, VAX 8700, VAX 8800, VAX 8810, VAX 8820, VAX 8830, VAX 8840

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 Series, VAXstation 3150, 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 4000-200, VAXserver 4000-300, VAXserver 6000-210, VAXserver 6000-310, VAXserver 6000-410, VAXserver 6000-420

Processors Not Supported

VAX-11/725, VAX-11/730, VAX-11/782, VAXstation I, MicroVAX I, VAXstation 8000, VAX 9000-210, VAX 9000 Model 400 Series

Other Hardware Required

For an IEEE 802.4 connection:

A valid Q-bus (DTQNA-B*) controller

For an IEEE 802.3 connection:

- A DEUNA or DELUA for operation on a UNIBUS based VAX, or BI-VAX with the appropriate UNIBUS adapter
- A DEBNA for operation on a BI-bus based VAX
- A DEQNA or DELQA for operation on a Q-bus based VAX
- A DESVA for operation with a MicroVAX 2000 or VAXstation 2000

Memory Required

The VMS Operating System and DEComni/VMS products together require 4.0 MB of physical memory. See the VMS Operating System Software Product Description (SPD 25.01.xx) for additional memory required when other components are to be installed on a VMS system.

Disk Space Requirements (Block Cluster Size = 1):

Installation Type	Blocks to Install	Blocks for Permanent Use
Software Only	32,000	31,000
Software and Documentation	43,000	41,600
Documentation Only	11,000	10,600

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.

OPTIONAL HARDWARE

None

digital™

May 1991
AE-PBRDB-TE

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

VMS Operating System V5.3 - V5.4

Layered Products

VAX Rdb/VMS V4.0 (Run-time option)

VAX DEC/MAP V3.0

VMS Tailoring

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

- VMS Required Saveset
- Network Support
- Programming Support
- System Programming Support
- Utilities

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

OPTIONAL SOFTWARE

None

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the minimum 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-YME**-**
Software Media & Documentation: QA-YMEAA-**
Software Documentation: QA-YMEAA-GZ
Software Product Services: QT-YMEA*-**

* 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.

Appendix A
Conformance to Standards

This appendix defines the conformance of DEComni/VMS V1.1 product to International Organization for Standardization (ISO) international specifications for protocol standards as specified in ISO 9506-2 clause 18.

PICS Part 1: Implementation Information

PICS Serial Number:	Date Issued:
Implementation's Vendor Name	Digital
Implementation's Model Name	DEComni
Implementation's Revision Identifier	V1.1
Machine Name(s) and Version Number(s)	-
Operating System(s)	VMS
MMS abstract syntax	[1 0 9506 2 1]
MMS Version Number Supported	1
MMS Companion Standard abstract syntaxes	None
MMS Companion Standard Version Number Supported	N/A
Calling MMS-user (indicate "Yes" or "No")	YES
Called MMS-user (indicate "Yes" or "No")	YES
List of Standardized Names	None

PICS Part 2: Service CBBs

PICS Serial Number:	Date Issued:
Service Conformance Building Blocks	**Server, Client or Both**
Initiate	B
Conclude	B
Cancel	C
UnsolicitedStatus	C
Status	C
GetNameList	C

PICS Serial Number:	**Date Issued:**
Service Conformance Building Blocks	**Server, Client or Both**
Identify	B
Rename	-
GetCapabilityList	C
Read	B
Write	B
InformationReport	C
GetVariableAccessAttributes	C
DefineNamedVariable	-
DefineScatteredAccess	-
GetScatteredAccessAttributes	-
DeleteVariableAccess	-
DefineNamedVariableList	-
GetNamedVariableListAttributes	C
DeleteNamedVariableList	-
DefineNamedType	-
GetNamedTypeAttributes	-
DeleteNamedType	-
Input	-
Output	-
TakeControl	-
RelinquishControl	-
DefineSemaphore	-
DeleteSemaphore	-
ReportSemaphoreStatus	-
ReportPoolSemaphoreStatus	-
ReportSemaphoreEntryStatus	-
AttachToSemaphore	-
InitiateDownloadSequence	C
DownloadSegment	C
TerminateDownloadSequence	C
InitiateUploadSequence	C
UploadSegment	C
TerminateUploadSequence	C
RequestDomainDownload	C
RequestDomainUpload	C
LoadDomainContent	-
StoreDomainContent	-
DeleteDomain	C
GetDomainAttributes	C
CreateProgramInvocation	C
DeleteProgramInvocation	C
Start	C
Stop	C
Resume	C
Reset	C
Kill	C
GetProgramInvocationAttributes	C
ObtainFile	B
DefineEventCondition	-
DeleteEventCondition	-
GetEventConditionAttributes	-
ReportEventConditionStatus	-
AlterEventConditionMonitoring	-
TriggerEvent	-
DefineEventAction	-
DeleteEventAction	-
GetEventActionAttributes	-
ReportEventActionStatus	-
DefineEventEnrollment	-
DeleteEventEnrollment	-
AlterEventEnrollment	-
ReportEventEnrollmentStatus	-
GetEventEnrollmentAttributes	-
AcknowledgeEventNotification	-
AttachToEventCondition	-
EventNotification	-
GetAlarmSummary	-
GetAlarmEnrollmentSummary	-
ReadJournal	-
WriteJournal	-
InitializeJournal	-
CreateJournal	-
DeleteJournal	-
ReportJournalStatus	-

PICS: Part 3: Parameter CBB

PICS Serial Number:	Date Issued:

Parameter Conformance Building Blocks	Supported (Value)
STR1	Y
STR2	Y
NEST (>=0 . Give integer value.)	10
VNAM	Y
VADR	Y
VALT	Y
VSCA	N
TPY	N
VLIS	N
REAL	N
AKEC	N
CEI	N

Supplemental PICS Table

DEComni/VMS contains an implementation of the services defined in Annex C of ISO 9506-1 and ISO 9506-2. While these services are not part of the standard, they are provided to support limited file transfer capability between Digital systems and other vendor systems. Because of the limitations of these services, use of VAX FTAM is recommended. Refer to SPD 29.86.xx for further information.

PICS Serial Number:	Date Issued:

Service Conformance Building Blocks	Server, Client or Both
FileOpen	B
FileRead	B
FileClose	B
FileRename	C
FileDelete	C
FileDirectory	C

PICS Part 4: Local Implementation Values

PICS Serial Number:	Date Issued:
Range of values for floating point numbers	Note 1
Supported values of the floating point exponent width	Note 1
Supported values of the floating point format width	Note 1
Range of values for signed integer	±2**32-1
Range of values for unsigned integer	2**32
Maximum length for BIT STRING in bits	Note 2
Maximum length for OCTET STRING in octets	Note 2
Address formats for VADR horizontal CBB	N/A
Maximum Input Time Out in seconds	N/A
Level of support for time	Note 3
Granularity of time in milliseconds	N/A
Uninterruptible access to variable	Note 4
Priority processing for semaphores	N/A
Capabilities of VMD	N/A
Local Detail	N/A
File Name Syntax	Note 5
Range of Maximum Services Outstanding Calling	Note 6
Range of Maximum Services Outstanding Called	Note 6
Execution Argument	N/A
Additional Code in Error Type	Note 7
Additional Detail in Error Type	Note 7
Method for Extended Derivation of Status Information	N/A
Local Detail Calling/Called	Note 8
Load Data Format	N/A
Maximum number of Upload State Machines	N/A

Please refer to the following page for Note references.

Note 1

VAX F floating point is supported. The range is .29*10**-38 through 1.7*10**38.
An exponent width of 8 bits is supported.
A format width of 32 bits is supported.

Note 2

The effective length for strings is limited by the maximum PDU size. See Note 8.

Note 3

Date and Time are supported.
Support for Time Sequence Identifier is N/A.

Note 4

Read and Write indications are delivered to user written code; uninterruptible access is application dependent.

Note 5

The Syntax and semantics for file name are specified by the VMS Operating System. This is documented in the VMS documentation under "Full File Specification." Wildcard specifiers are not permitted.

The file name must be specified in the first graphic string of the FileName production. Any information in additional graphic strings will be ignored.

Note 6

The range is 1-infinity. Acceptance of indications is under programming control. The actual number of outstanding requests allowable is dependent upon process memory limits which is set by either the programmer or system manager.

Note 7

This implementation does not specify additional code nor additional detail in error type.

Note 8

The following semantics are defined for the use of the local detail calling/called fields. As a result, a limit is set for a maximum MMS PDU size, which limits specific functions.

The semantics of this field are contained the the implementation agreements of the NIST (National Institute for Standards and Technology - OSI Implementors Workshop) Special Publication 500-183 titled "Stable Implementation Agreements for Open Systems Interconnect Protocols, Version 4, Edition 1, December 1990," Part 20 (MMS) Sections 8.1.1.3 and 8.1.1.4.

™ The DIGITAL Logo, DEComni, VMS, VAX, MicroVAX, VAXstation and VAXserver are trademarks of Digital Equipment Corporation.