# Software Product Description

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

## DESCRIPTION

DEComni/VMS is a network communication product and is an implementation of the Manufacturing Message Specification, MMS, ISO 9506-1 and ISO 9506-2. When combined with prerequisite hardware and software, DEComni/VMS interoperates with other systems supporting the Manufacturing Message Specification ISO IS/9506-1 and ISO IS/9506-2 specification.

The conformance of DEComni/VMS software to OSI standards is specified in Appendix A of this Software Product Description.

### Features

DEComni/VMS is an implementation of the Manufacturing Message Specification, MMS, ISO 9506 consisting of a callable interface on VMS which will take the proper arguments and transform them into the proper MMS protocol.

DEComni/VMS provides as a minimal set, the Client Conformance requirements for the services specified in MAP Implementation Class MAP3.

The product may interoperate with those device vendors that have implemented to ISO IS/9506(MMS).

DEComni/VMS provides a high level applications programming interface (API) with a high degree of functionality built in. The interface is easy to use and requires very little support code.

### Components

*Object Definition Facility (ODF)*

The ODF facility is used to define the objects and attribute values that are expected to be found at a remote Virtual Manufacturing Device (VMD). This facility is also used to define aspects of a local VMD if supported by the application.

ODF is used to define the mapping of MMS variable types to and from VMS data type definitions.

*OMNI API*

This component contains a callable run-time library which is an implementation of MMS. The actual support for services is listed in the Protocol Implementation Conformance Statement (PICS) found in the conformance to standards section. Service classes supported are in the following categories: Environment, VMD Support, Domains, Program Invocations, and Variables.

*OMNICL*

This component contains a facility to manage aspects of the MMS implementation installed on a machine.

*OmniView*

OmniView is a demonstration application written using the callable interface that operates in a DECwindows environment. It provides a limited user interface to the following MMS client services from a VAXstation running the prerequisite software:

Initiate
Conclude
Status
Abort
GetNameList
Identify
GetCapabilityList
Read
Write
Stop
Reset
GetVariableAccessAttributes
GetDomainAttributes
GetProgrammInvocationAttributes

*DEComni/VMS Installation Verification Procedure (IVP)*

The DEComni/VMS IVP performs a series of tests to verify proper installation.

*Documentation*

The DEComni/VMS documentation set consists of three hard copy documents and four on-line reference documents.

The hard copy documents supplied with the kit consist of two reference cards and a system pocket guide that complement the on-line documentation set.

These cards provide DEComni users with guidelines on how to install DEComni and how to get started with OmniView. The pocket guide gives DEComni users basic information about API, ODF, and OMNICL commands. For an experienced DEComni/VMS user, these hard copy documents will provide all that is needed to get DEComni running and functional; a detailed, on-line DEComni documentation set is available for all users.

The DEComni/VMS V1.1 on-line documentation set is part of the distribution kit and is optionally installed during the software installation.

The on-line documentation set consists of:

*DEComni/VMS Application Programmer's Guide* - Provides an overview of MMS concepts and terminology and an introduction to DEComni procedure calls and DEComni operations and features.

*DEComni/VMS Software Installation Guide* - Explains how to prepare for DEComni installation, how to install the product, and what to do after DEComni is installed.

*DEComni/VMS Guide to Using OmniView* - Describes how to use the OmniView interface to monitor VMD components and how to display component values and information on the OmniView screens.

*DEComni/VMS Network Management Guide* - Describes the use of the DEComni utilities OMNICL and ODF.

## INSTALLATION

Only experienced customers should attempt installation of this product. Digital recommends that all other customers purchase Digital's Installation Services. These services provide for installation of the software product by an experienced Digital Software Specialist.

Installation for DEComni/VMS will consist of the following:

- Verification that all components of DEComni/VMS have been received.
- Verification that the necessary versions of the prerequisite software and documentation are available.
- Verification of the appropriate system parameters.

**Note:** Should a customer attempt the installation and require the services of a software specialist to modify the previously installed operating system parameters, or aid in the installation, a time and materials charge will apply.

- Verification that the system meets the minimum hardware and software requirements (as specified in the SPD).
- Customer making available for a reasonable period of time, as mutually agreed upon by Digital and the customer, all hardware communication facilities and terminals that are to be used during installation.
- Install the DEComni/VMS software by creating the necessary directories and by copying the software from the distribution media.
- Verify the proper installation of DEComni/VMS by using the IVP.

Connectivity to all other nodes within the network is the responsibility of the customer.

Delays caused by any failure to meet these responsibilities will be charged at the then prevailing rate for time and materials.

## HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation, or VAXserver configuration as specified in the System Support Addendum (SSA 32.32.01-x).

## SOFTWARE REQUIREMENTS*

VMS Operating System

*Layered Products*

VAX Rdb/VMS (Run-time option)
VAX DEC/MAP

* Refer to the System Support Addendum (SSA 32.32.01-x) for availability and required versions of prerequisite software.

## ORDERING INFORMATION

Software Licenses: QL-YME**-**
Software Media & Documentation: QA-YMEA*-**
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.

## SOFTWARE LICENSING

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

## LICENSE MANAGEMENT FACILITY SUPPORT

This layered product supports the VMS License Management Facility.

License units for this product are allocated on a CPU-capacity basis.

For more information on the License Management Facility, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) or the *License Management Facility* manual of the VMS Operating System documentation set.

For more information about Digital's licensing terms and policies, contact your local Digital office.

## SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, contact your local Digital office.

## SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

## WARRANTY LIMITATIONS

Digital has produced this product according to Protocol Specifications produced by the International Organization for Standardization (ISO) defined in the Conformance to Standards (Appendix A) of this SPD.

Digital warrants this product to conform to these Protocol specifications, as described by these International Standards.

Digital cannot assume responsibility for interworking problems due to:

- Other vendors' non-conformance to the International Standards that DEComni/VMS implements.
- Ambiguities in the International Standards implemented by DEComni/VMS.
- Flaws in the protocol design appearing in the International Standards implemented by DEComni/VMS.

Assistance requested of Digital for problems resulting from any of the errors listed above will result in all associated service calls being billed at the prevailing per call rates. To minimize the risk of interworking problems, Digital has tested this product against selected other ISO 9506-1 and ISO 9506-2 implementations.

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