Software Product Description

PRODUCT NAME: VSI OMNI API for OpenVMS   **SPD   DO-DOMNI1-01A**

DESCRIPTION

This document addresses VSI OMNI API for OpenVMS Version 4.1 for OpenVMS for VSI Alpha and VSI Integrity. VSI OMNI API for OpenVMS is a network communications product that provides an Application Programming Interface (API) for the connection and management of manufacturing shop floor devices and control systems. The VSI OMNI API for OpenVMS provides for both open and proprietary device connections.

FEATURES

VSI OMNI API for OpenVMS contains a callable runtime library that is an implementation of the Manufacturing Message Specification (MMS) Device Model. Service classes supported are in the following categories: Environment, VMD Support, Domains, Program Invocations, and Variables.

ODSCL

ODSCL is a command line interface to the OMNI Directory Service. This management level tool provides system managers with the following functions:
   • Register directory names
   • Deregister directory names
   • Modify directory names
   • Query the directory

OMNIView

OMNIView is a demonstration application written using the callable interface that operates in a DECwindows Motif environment. It provides a limited user interface to the following MMS client services from a system running the prerequisite software:
   • Initiate
   • Conclude
   • Status
   • Abort
   • GetNameList
   • Identify
   • GetCapabilityList
   • Read
   • Write
   • Start
   • Stop
   • Reset
   • GetVariableAccessAttributes
   • GetDomainAttributes
   • GetProgramInvocationAttributes

Object Definition Facility (ODF)

ODF 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 OpenVMS data type definitions.

VSI OMNI API Installation Verification Procedure (IVP)

The VSI OMNI API for OpenVMS IVP performs a series of tests to verify proper installation and operation.

INSTALLATION

Only experienced customers should install the VSI OMNI API for OpenVMS product. VSI recommends the purchase of VSI Professional Services that provide for installation of the software product by an experienced VSI software specialist.

Installation for VSI OMNI API for OpenVMS relies on the following:

- Verification that all components of VSI OMNI API have been received

- Verification that the necessary versions of the pre-requisite software and documentation are available

- Verification of the appropriate system parameters

- Verification that the system meets the minimum hardware and software requirements as specified in this SPD

- Verification from the customer that, for a reasonable period of time as mutually agreed upon by VSI and the customer, all hardware communication facilities and terminals that are to be used during installation will be available

- Installation of the VSI OMNI API for OpenVMS software by creating the necessary directories and by copying the software from the distribution media

- Verification that VSI OMNI API for OpenVMS has been installed correctly by using the IVP

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

HARDWARE REQUIREMENTS

Processors Supported:

- Integrity: Any HPE Integrity system capable of running the VSI OpenVMS Integrity Operating System Version 8.4-1H1 or higher.

- Alpha: Any HPE AlphaServer system capable of running the VSI OpenVMS Alpha Operating System Version 8.4-2L1 or higher.

Refer to the latest VSI OpenVMS Integrity or Alpha Software Product Description for information about supported servers.

Disk Space Requirements (Block Cluster Size = 1)

Requirement	Integrity	Alpha
Disk space required for kit installation	36MB	29 MB
Disk space required for permanent use	27MB	20 MB

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.

VSI OMNI API for OpenVMS

SOFTWARE REQUIREMENTS

On Integrity servers, VSI OpenVMS Integrity Version 8.4-1H1 or higher is the required operating system version for this product. On AlphaServer systems, VSI OpenVMS Alpha Version 8.4-2L1 or higher is the required operating system version for this product.

SOFTWARE LICENSING

A software license is required in order to use the VSI OMNI API for OpenVMS software product.

- For Integrity servers, the license is a per-socket license. Rights to use future revisions of VSI OMNI API are available only through a Support Agreement or through a new license purchase.

- For AlphaServer systems, the license to use VSI OMNI API for OpenVMS is included in the ALPHA-LP license.

For more information about OpenVMS licensing terms and policies, contact your VSI account representative. Information is also available at the following website: http://vmssoftware.com/services

LICENSE MANAGEMENT FACILITY SUPPORT

VSI OMNI API for OpenVMS supports the *OpenVMS License Management Facility*.

For more information about the License Management Facility, refer to the *VSI OpenVMS License Management Utility Manual* in the OpenVMS documentation set.

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed OpenVMS Cluster configuration, which are fully described in the *OpenVMS Cluster Software Product Description* **(SPD DO-VIBHAA-032).** See the HARDWARE REQUIREMENTS section in this document for hardware requirements.

OPTIONAL SOFTWARE

- OpenVMS DECwindows Motif V1.7 (only necessary if you want to use OMNIView)
- Oracle Rdb V7.3 for OpenVMS run-time option (only necessary if you want to use the OMNI Definition Facility)

GROWTH CONSIDERATIONS

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

ORDERING INFORMATION

VSI OMNI API for OpenVMS licenses are available as electronic licenses (E-LTU) or physical licenses (P-LTU):

For VSI Integrity:

Part Number	Description
SL-LIOM1E-41V	VSI OMNI PSL 1 Core Server 1 E-LTU units
SL-LIOM1P-41V	VSI OMNI PSL 1 Core Server 1 P-LTU units
SL-LIOM2E-41V	VSI OMNI PSL 2 Core Server 2 E-LTU units
SL-LIOM2P-41V	VSI OMNI PSL 2 Core Server 2 P-LTU units
SL-LIOM4E-41V	VSI OMNI PSL 4 Core Server 4 E-LTU units
SL-LIOM4P-41V	VSI OMNI PSL 4 Core Server 4 P-LTU units
SL-LIOM8E-41V	VSI OMNI PSL 8 Core Server 8 E-LTU units
SL-LIOM8P-41V	VSI OMNI PSL 8 Core Server 8 P-LTU units

For VSI Alpha:

VSI OMNI API for OpenVMS is included in the ALPHA-LP license bundle

SOFTWARE PRODUCT SERVICES

A variety of service options are available from VSI. For more information, contact your VSI account representative or distributor. Information is also available at the following website: http://vmssoftware.com/services

SOFTWARE WARRANTY

This software product is provided by VSI with a 90-day conformance warranty in accordance with the VSI warranty terms applicable to the license purchase.