

Software Product Description

PRODUCT NAME: VSI Operating Environments for OpenVMS Version 8.4-2L1 for Integrity Servers

DO-VIBHAC-006

This SPD describes the VSI Operating Environments for OpenVMS for Integrity Servers, including Operating Environment (OE) license bundles and revised media offerings.

Operating Environment License Bundles:

VSI OpenVMS Version 8.4-2L1 features a two-tier Operating Environment model consisting of Base Operating Environment (BOE) and High Availability Operating Environment (HA-OE).

- **Base Operating Environment (BOE)**

The BOE bundle includes the operating system, along with networking and infrastructure software.

- **High Availability Operating Environment (HA-OE)**

The HA-OE bundle includes all components of the BOE including Clusters, Availability Manager, RMS Journaling for OpenVMS, and Volume Shadowing for OpenVMS. HA-OE component products that are not included in the BOE can be ordered separately.

The Operating Environment media kits deliver the Operating System, the Operating Environment component products, and the Layered Products as follows:

- **Media and Online Documentation:**

The media offerings (updated quarterly as necessary) include the most recent revision of OE components, Layered Products Library, and Online Documentation Library.

- Operating Environment DVD (binaries)
- Layered Product Library DVD (binaries)
- Online Documentation media for Operating Environments and Layered Products
- Operating Environment Update media (provided as needed for updating OE components)

- **Hardcopy Documentation:**

- *VSI OpenVMS License Management Utility Manual*
- *VSI OpenVMS Version 8.4-2L1 Cover Letter and Release Notes*
- *VSI OpenVMS Version 8.4-2 Cover Letter and Release Notes*
- *VSI OpenVMS Version 8.4-2 Guide to Media*
- *VSI OpenVMS Version 8.4-2 Installation and Upgrade Manual*

Operating Environment Contents

Table 1 lists the OE component products included with the VSI OpenVMS Operating Environments.

Table 1
VSI OpenVMS Integrity Server Base Operating Environment

VSI OpenVMS Integrity Server Base Operating Environment			
OE Component	Version	HPE SPD	VSI SPD
VSI OpenVMS for Integrity Servers Operating System	8.4-2L1	82.35	DO-VIBHAB-005
VSI Another Neat Tool (ANT)	1.7-1B	80.58	DO-VIBHAA-028
VSI AXIS2	1.1-1	80.58	DO-VIBHAA-028
VSI Common Data Security Architecture (CDSA)	2.4-322A	82.35	DO-VIBHAB-005
VSI Common Internet File System (CIFS)	1.2-ECO1A	82.42	DO-VIBHAB-022
VSI DECnet-Plus for OpenVMS End System	8.4C	50.45	DO-VIBHAA-023
VSI DECnet IV	8.4-2L1	48.48	DO-VIBHAA-024
VSI DECprint Supervisor (DCPS)	2.8	44.15	DO-VIBHAA-025
VSI DECram	8.4-2L1	82.35	DO-VIBHAB-005
VSI DECwindows Motif	1.7E	42.19	DO-VIBHAA-026
VSI Distributed Computing Environment (DCE RT)	3.2A	43.05	DO-VIBHAA-027
VSI Enterprise Directory	5.7	81.03	DO-VIBHAA-034
VSI HPBINARYCHECKER	1.1A	82.35	DO-VIBHAB-005
VSI I18N	8.4-2L1	82.35	DO-VIBHAB-005
VSI Kerberos	3.2-260	82.35	DO-VIBHAB-005
VSI Perl	5.20-2A	82.35	DO-VIBHAB-005
VSI Secure Sockets Layer 1 (SSL1)	1.0	80.58	DO-VIBHAA-028
VSI Secure Sockets Layer (SSL)	1.4-503	80.58	DO-VIBHAA-028
VSI Secure Web Server (CSWS)	2.4	80.58	DO-VIBHAA-028
VSI Secure Web Server (CSWS_Java (Tomcat))	7.0.29B	80.58	DO-VIBHAA-028
VSI Secure Web Server (CSWS_PHP)	5.2-17A	80.58	DO-VIBHAA-028
VSI TCP/IP Services for OpenVMS	5.7-13ECO05B	46.46	DO-VIBHAA-029
VSI TDC_RT	2.3-1120	82.35	DO-VIBHAB-005
VSI UDDI Client Toolkit	1.0-B	80.58	DO-VIBHAA-028
VSI WBEM/CIM	3.0-B151019	82.35	DO-VIBHAB-005
VSI WBEM Providers	2.2-5	82.35	DO-VIBHAB-005
VSI Web Services Integration Toolkit (WSIT)	3.4-1-1	80.58	DO-VIBHAA-028
VSI XML_JAVA	4.0-1	80.58	DO-VIBHAA-028
XML C++ (Based on Apache Xerces-C 2.2.0 & Apache Xalan-C 1.5)	3.0-1-1	80.58	DO-VIBHAA-028
VSI OpenVMS Integrity Server High Availability Operating Environment			
VSI Availability Manager	3.2	82.35	DO-VIBHAB-005
RMS Journaling for VSI OpenVMS	8.4-2L1	27.58	DO-VIBHAA-030
Volume Shadowing for VSI OpenVMS	8.4-2L1	27.29	DO-VIBHAA-031
VSI VMS Cluster Client	8.4-2L1	29.78	DO-VIBHAA-033
VSI VMS Cluster Software	8.4-2L1	29.78	DO-VIBHAA-033

For additional information, please refer to the VSI OpenVMS Roadmap at: <http://www.vmssoftware.com>

INSTALLATION

Customers who are unfamiliar with the OE components can purchase Installation Services through VSI Professional Services. These services provide installation of the software product by an experienced VSI software specialist.

A subset of OE components can be factory installed on new servers when purchased through HPE. Products requiring customized installation are *not* included in factory installation, however their binaries and online documentation are provided with the system purchase. Please refer to the "Preinstalled Software Information Sheet" for a list of installed components. This sheet is delivered with systems when factory installed software is requested.

HARDWARE REQUIREMENT

For details about the hardware requirements, memory requirements, and disk space requirements, please consult the appropriate sections of the *VSI OpenVMS Operating System SPD* and component product SPDs.

SOFTWARE REQUIREMENTS

Unless otherwise noted, the OE components support VSI OpenVMS Version 8.4-2L1. Some components will also support prior OpenVMS versions. For details about software requirements for individual component products, please consult the *Software Requirements* sections of the component SPDs.

GROWTH CONSIDERATIONS

The minimum hardware and software requirements for future versions of the VSI OpenVMS Integrity server OEs might be different from the requirements for the current version.

SOFTWARE LICENSING

A BOE or HA-OE license grants the right to use all the components included in the specified OE. VSI OpenVMS OEs are offered with Per Socket Licenses (PSLs) on HPE Integrity BL8x0c i2 and i4 server blades, rx2800 i2 and i4 rackmount servers, and on pre-i2 servers. One PSL is required for each active physical socket in a system or hard partition. If additional processors are later added to the system or hard partition, each processor core or socket requires an additional PSL respectively.

Note: A socket is a receptacle for microprocessor modules. A single-microprocessor module may contain one or more processor cores.

For OEs on HPE Integrity i2 and i4 servers, hardware tiers are defined as:

- Maximum of 2 processor sockets (BL860c i2 and i4, and rx2800 i2 and i4 rackmount servers)
- Maximum of 4 processor sockets (BL870c i2 and i4)
- Maximum of 8 processor sockets (BL890c i2 and i4)

VSI OpenVMS OEs are also available on the following HPE pre-i2 Integrity servers:

- rx1600
- rx2600, rx2620, rx 2660
- rx3600
- rx6600
- rx7640
- rx8640

Other licensing practices are as follows:

- User licenses are not required. The BOE license provides for unlimited OpenVMS users.
- Version update licenses are not available. Update services are available only through a Support Agreement.
- Trade-in allowances are offered as license "options" rather than as separate licenses.

For more information about VSI OpenVMS licensing terms and policies, contact your local VSI sales office.

SOFTWARE MEDIA AND DOCUMENTATION

OE media kits include both DVD and CD media. Please see the *Description* section at the beginning of this SPD for a listing of contents, and the *Ordering Information* section for ordering details.

Online documentation is included with all product binary offerings.

ORDERING INFORMATION**Ordering OE licenses**

Table 2 lists the licenses for each OE. One license is required for each active socket on HPE Integrity i2, i4, and pre-i2 servers. The license type is PSL (Per Socket License) on HPE Integrity i2 and i4 servers. LTU is License-to-Use.

Table 2
Operating Environment Software Licenses

VSI OpenVMS Base Operating Environment LTU	
VSI Product Number	Description
SL-VIB21P-H4W	PSL VMS I64 BOE 2Skt/1C LTU
SL-VIB22P-H4W	PSL VMS I64 BOE 2Skt/2C LTU
SL-VIB24P-H4W	PSL VMS I64 BOE 2Skt/4C LTU
SL-VIB28P-H4W	PSL VMS I64 BOE 2Skt/8C LTU
SL-VIB41P-H4W	PSL VMS I64 BOE 4Skt/1C LTU
SL-VIB42P-H4W	PSL VMS I64 BOE 4Skt/2C LTU
SL-VIB44P-H4W	PSL VMS I64 BOE 4Skt/4C LTU
SL-VIB48P-H4W	PSL VMS I64 BOE 4Skt/8C LTU
SL-VIB81P-H4W	PSL VMS I64 BOE 8Skt/1C LTU
SL-VIB82P-H4W	PSL VMS I64 BOE 8Skt/2C LTU
SL-VIB84P-H4W	PSL VMS I64 BOE 8Skt/4C LTU
SL-VIB88P-H4W	PSL VMS I64 BOE 8Skt/8C LTU

VSI OpenVMS High Availability Operating Environment LTU	
VSI Product Number	Description
SL-VIH21P-H4W	PSL VMS I64 HA-OE 2Skt/1C LTU
SL-VIH22P-H4W	PSL VMS I64 HA-OE 2Skt/2C LTU
SL-VIH24P-H4W	PSL VMS I64 HA-OE 2Skt/4C LTU
SL-VIH28P-H4W	PSL VMS I64 HAOE 2Skt/8C LTU
SL-VIH41P-H4W	PSL VMS I64 HA-OE 4Skt/1C LTU
SL-VIH42P-H4W	PSL VMS I64 HA-OE 4Skt/2C LTU
SL-VIH44P-H4W	PSL VMS I64 HA-OE 4Skt/4C LTU
SL-VIH48P-H4W	PSL VMS I64 HAOE 4Skt/8C LTU
SL-VIH81P-H4W	PSL VMS I64 HA-OE 8Skt/1C LTU
SL-VIH82P-H4W	PSL VMS I64 HA-OE 8Skt/2C LTU
SL-VIH84P-H4W	PSL VMS I64 HA-OE 8Skt/4C LTU
SL-VIH88P-H4W	PSL VMS I64 HAOE 8Skt/8C LTU

Ordering OE License Upgrades

The Upgrade License is used when the Operating Environment is upgraded from a smaller OE to a larger OE on the same Integrity server. The BOE to HA-OE License Upgrades deliver a license for HA-OE and the pricing gives credit for the previous purchase of the BOE.

Table 3 lists the OE (BOE/HA-OE) license upgrade options.

Table 3
OE (BOE to HA-OE) License Upgrade Options

VSI Product Number	Description
SL-VIH21U-H4W	VSI V842L1 BOE to HAOE Upg 2S/1C LTU
SL-VIH22U-H4W	VSI V842L1 BOE to HAOE Upg 2S/2C LTU
SL-VIH24U-H4W	VSI V842L1 BOE to HAOE Upg 2S/4C LTU
SL-VIH28U-H4W	VSI V842L1 BOE to HAOE Upg 2S/8C LTU
SL-VIH41U-H4W	VSI V842L1 BOE to HAOE Upg 4S/1C LTU
SL-VIH42U-H4W	VSI V842L1 BOE to HAOE Upg 4S/2C LTU
SL-VIH44U-H4W	VSI V842L1 BOE to HAOE Upg 4S/4C LTU
SL-VIH48U-H4W	VSI V842L1 BOE to HAOE Upg 4S/8C LTU
SL-VIH81U-H4W	VSI V842L1 BOE to HAOE Upg 8S/1C LTU
SL-VIH82U-H4W	VSI V842L1 BOE to HAOE Upg 8S/2C LTU
SL-VIH84U-H4W	VSI V842L1 BOE to HAOE Upg 8S/4C LTU
SL-VIH88U-H4W	VSI V842L1 BOE to HAOE Upg 8S/8C LTU

Ordering OE License Trade-ins

The Trade-in policy provides software investment protection when a customer is moving to an HPE Integrity i2 or i4 server, or pre-i2 server. To be eligible for credit, the licenses being traded in must be on a valid support agreement.

The old software must be equivalent in function to the new software. The credit allowed cannot exceed 50% of the purchase price of the target license.

Process:

1. The customer orders the new OE license.
2. The customer provides proof of license and proof of support to the VSI representative.
3. The VSI representative calculates credit and applies it to the order.
4. License keys for the old system should be deleted at least 90 days after the new licenses/new system delivery.

Table 4 lists the OE license trade-ins.

Table 4
OE License Trade-ins

VSI Product Number	VSI OpenVMS BOE Trade-in Description
SL-VIB21T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 2Skt/1C Trade-in LTU
SL-VIB22T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 2Skt/2C Trade-in LTU
SL-VIB24T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 2Skt/4C Trade-in LTU
SL-VIB28T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 2Skt/8C Trade-in LTU
SL-VIB41T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 4Skt/1C Trade-in LTU
SL-VIB42T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 4Skt/2C Trade-in LTU
SL-VIB44T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 4Skt/4C Trade-in LTU
SL-VIB48T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 4Skt/8C Trade-in LTU
SL-VIB81T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 8Skt/1C Trade-in LTU
SL-VIB82T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 8Skt/2C Trade-in LTU
SL-VIB84T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 8Skt/4C Trade-in LTU
SL-VIB88T-H4W	VSI OpenVMS BOE Trade-in LTU PSL VMS I64 BOE 8Skt/8C Trade-in LTU
VSI Product Number	VSI OpenVMS HA-OE (High Availability) Trade-in Description
SL-VIH21T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 2Skt/1C Trade-in LTU
SL-VIH22T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 2Skt/2C Trade-in LTU
SL-VIH24T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 2Skt/4C Trade-in LTU
SL-VIH28T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 2Skt/8C Trade-in LTU
SL-VIH41T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 4Skt/1C Trade-in LTU
SL-VIH42T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 4Skt/2C Trade-in LTU
SL-VIH44T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 4Skt/4C Trade-in LTU
SL-VIH48T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 4Skt/8C Trade-in LTU
SL-VIH81T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 8Skt/1C Trade-in LTU
SL-VIH82T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 8Skt/2C Trade-in LTU
SL-VIH84T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 8Skt/4C Trade-in LTU
SL-VIH88T-H4W	VSI OpenVMS HAOE Trade-in LTU PSL VMS I64 HA-OE 8Skt/8C Trade-in LTU

Ordering OE Media and Media Options

Purchase of an OE media product requires purchase of a corresponding OE license on the same order. Please note:

- Each media order must specify the complete media option (for example, SK-VIHKIT-H4W)
- VSI strongly advises the purchase of at least one DVD media option per customer site, because not all items on the DVD media are included in the Factory Installation.
- Product update media are delivered through a Support Agreement.

Table 5 lists the media offerings available, along with their corresponding option numbers.

Table 5
OpenVMS Integrity Server Media Offerings and Options

Media Option	Description
SK-VIHKIT-H4W	VSI OpenVMS V8.4-2L1 physical media kit
SE-VIHKIT-H4W	VSI OpenVMS V8.4-2L1 electronic media kit
SK-VIHKIT-H42	VSI OpenVMS V8.4-2 physical media kit
SE-VIHKIT-H42	VSI OpenVMS V8.4-2 electronic media kit
SK-VIHKIT-H41	VSI OpenVMS V8.4-1H1 physical media kit
SE-VIHKIT-H41	VSI OpenVMS V8.4-1H1 electronic media kit

Ordering OE Components Sold Separately

The OE component products listed in Table 6 can be ordered separately. The license or LTU product number is for the individual OE component license. The initial delivery of product binaries for any OE component is through the purchase of an OE Media Kit. Where the media product number is shown as "SIP", the product is a System Integrated Product and is included on the Operating System media. It is not necessary to order separate media delivery for SIPs. Where the media product number is shown in the table, it must be ordered when Software Updates Service is planned.

Table 6 lists the operating environment components sold separately.

Table 6

Operating Environment Components Sold Separately

VSI Product Number	Description
SL-LIAM1P-30V	VSI Availability Manager PSL 1 Core 1 P-LTU
SL-LIAM2P-30V	VSI Availability Manager PSL 2 Core 2 P-LTU
SL-LIAM4P-30V	VSI Availability Manager PSL 4 Core 4 P-LTU
SL-LIAM8P-30V	VSI Availability Manager PSL 8 Core 8 P-LTU
SIP	VSI Availability Manager Media
SL-LICL1P-84V	VSI Cluster Client PSL 1 Core Server 1 P-LTU units
SL-LICL2P-84V	VSI Cluster Client PSL 1 Core Server 2 P-LTU units
SL-LICL4P-84V	VSI Cluster Client PSL 1 Core Server 4 P-LTU units
SL-LICL8P-84V	VSI Cluster Client PSL 8 Core Server 8 P-LTU units
SIP	VSI Cluster Client Media
SL-LIVC1P-84V	VSI Clusters PSL 1 Core 1 P-LTU
SL-LIVC2P-84V	VSI Clusters PSL 2 Core 2 P-LTU
SL-LIVC4P-84V	VSI Clusters PSL 4 Core 4 P-LTU
SL-LIVC8P-84V	VSI Clusters PSL 8 Core 8 P-LTU
SIP	VSI Clusters Media
SW-LIDN1P-84V	VSI Dnet-Plus Ext Funct PSL 1 Core Server 1 P-LTU units
SW-LIDN2P-84V	VSI Dnet-Plus Ext Funct PSL 2 Core Server 2 P-LTU units
SW-LIDN4P-84V	VSI Dnet-Plus Ext Funct PSL 4 Core Server 4 P-LTU units
SW-LIDN8P-84V	VSI Dnet-Plus Ext Funct PSL 8 Core Server 8 P-LTU units
SIP	VSI Dnet-Plus Ext Funct Media
SL-LIRJ1P-82V	VSI RMS Journaling PSL 1 Core Server 1 P-LTU units
SL-LIRJ2P-82V	VSI RMS Journaling PSL 2 Core Server 2 P-LTU units
SL-LIRJ4P-82V	VSI RMS Journaling PSL 4 Core Server 4 P-LTU units
SL-LIRJ8P-82V	VSI RMS Journaling PSL 8 Core Server 8 P-LTU units
SIP	VSI RMS Journaling Media
SL-LIVS1P-84V	VSI Volume Shadowing PSL 1 Core 1 P-LTU
SL-LIVS2P-84V	VSI Volume Shadowing PSL 2 Core 2 P-LTU
SL-LIVS4P-84V	VSI Volume Shadowing PSL 4 Core 4 P-LTU
SL-LIVS8P-84V	VSI Volume Shadowing PSL 8 Core 8 P-LTU
SIP	VSI Volume Shadowing Media

Trade-in Policy

License trade-ins are available for OpenVMS Integrity server Operating Environments. VSI sales representatives verify Proof of License, determine how many credits the customer is entitled to receive, and add Trade-in Credits and Support to the order.

SOFTWARE PRODUCT SERVICES

Software services are provided to the OEs as follows:

Base Operating Environment (BOE) - All components listed in the BOE are supported under one BOE service contract. Components of the BOE cannot be purchased or supported independently.

High Availability Operating Environment (HA-OE) - The HA-OE is sold and supported at the package level, and the additional HA-OE component products are available for sale or service at an individual level.

A variety of service options are available from VSI. For more information, visit VSI's website at <http://vmssoftware.com/services> or contact VSI via email at info@vmssoftware.com

SOFTWARE WARRANTY

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

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