

Software Product Description

PRODUCT NAME: VSI Operating Environments for OpenVMS Version 8.4-2L3 for Integrity Servers

DO-VIBHOE-01A

DESCRIPTION

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 8.4-2L3 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, DECwindows and infrastructure software.

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

The HA-OE bundle includes all components of the BOE plus Clusters, Cluster Client, Availability Manager, RMS Journaling for OpenVMS, Reliable Transaction Router (Back End) 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 Layered Products as follows:

- **Software Media and Online Documentation:**

The media offerings are updated as necessary and include the most recent revision of OE components and documentation.

- Operating Environment DVD (binaries)
- Documentation CD for Operating Environments and Layered Products

- **Hardcopy Documentation:**

- *VSI OpenVMS Integrity Version 8.4-2L3 Cover Letter and Guide to Media*
- *VSI OpenVMS Integrity Version 8.4-2L3 Release Notes*
- *VSI OpenVMS Documentation CD Cover Letter and Guide to Media*
- *End User License Agreement (EULA)*
- *Important Information When Migrating from HPE OpenVMS to VSI OpenVMS*

Additional documentation is provided in PDF format on the Documentation CD.

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

OE Component	Version	HPE SPD	VSI SPD
VSI OpenVMS for Integrity Servers Operating System	8.4-2L3	82.35	DO-VIBHOS-01A
VSI Common Data Security Architecture (CDSA)	2.4-322A	82.35	DO-VIBHOS-01A
VSI DECnet-Plus for OpenVMS End System	8.4-K	50.45	DO-VIBHAA-023
VSI DECnet-Plus Extended Functionality (no separate license needed)	8.4-K	50.45	DO-VIBHAA-023
VSI DECnet IV	8.4-2L3	48.48	DO-VIBHAA-024
VSI DECram	8.4-2L3	82.35	DO-VIBHOS-01A
VSI DECwindows Motif	1.7E	42.19	DO-VIBHAA-026
VSI DECwindows Motif Support	8.4-2L3	42.19	DO-VIBHAA-026
VSI HPBINARYCHECKER	1.2-A	82.35	DO-VIBHOS-01A
VSI I18N Internationalization base kit, plus the VMSI18N842L1_JA-V0100 patch kit	8.4-2	82.35	DO-VIBHOS-01A
VSI Kerberos	3.2-260	82.35	DO-VIBHOS-01A
VSI Secure Sockets Layer 111 (SSL111)	1.1-11A	80.58	DO-VIBHAA-028
VSI Secure Sockets Layer 1 (SSL1)	1.0-2UA	80.58	DO-VIBHAA-028
VSI Secure Sockets Layer (SSL)	1.4-503	80.58	DO-VIBHAA-028
VSI TCP/IP Services for OpenVMS	5.7-13ECO5F	46.46	DO-VIBHAA-029
VSI TDC_RT	2.3-1220A	82.35	DO-VIBHOS-01A
VSI WBEM/CIM	3.0-E180108	82.35	DO-VIBHOS-01A
VSI WBEM Providers	2.2-5D	82.35	DO-VIBHOS-01A
VSI OpenVMS Integrity Server High Availability Operating Environment			
VSI Availability Manager	3.2	82.35	DO-VIBHOS-01A
Reliable Transaction Router, Back End	5.3	51.04	DO-VIBHAA-042
RMS Journaling for VSI OpenVMS	8.4-2L3	27.58	DO-VIBHAA-030
Volume Shadowing for VSI OpenVMS	8.4-2L3	27.29	DO-VIBHAA-031
VSI VMS Cluster Client	8.4-2L3	29.78	DO-VIBHAA-033
VSI VMS Cluster Software	8.4-2L3	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.

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 8.4-2L3. 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, i4, and i6 server blades, rx2800 i2, i4 and i6 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 additional socket requires a PSL.

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 servers, hardware tiers are defined as:

- Maximum of 2 processor sockets (BL860c i2, i4, i6, and rx2800 i2, i4, i6 rackmount servers)
- Maximum of 4 processor sockets (BL870c i2, i4, i6)
- Maximum of 8 processor sockets (BL890c i2, i4, i6)

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

- rx1600, rx1620
- rx2600, rx2620, rx2660
- rx3600
- rx6600
- rx7640
- rx8640

Other licensing practices are as follows:

- User licenses are not required. The BOE license provides for unlimited OpenVMS users.
- Update services are available only through a VSI Support Agreement.

For more information about VSI OpenVMS licensing terms and policies, contact VSI at sales@vmssoftware.com.

ORDERING INFORMATION

Ordering OE licenses

Table 2 lists the BOE and HA-OE licenses. The license type is PSL (Per Socket License) on all HPE Integrity server models where one license is required for each active socket.

Table 2
Operating Environment Software Licenses

VSI OpenVMS Base Operating Environment LTU (License-to-Use)	
VSI Product Number	Description
VL-VIB21x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 2SkT/1C LTU
VL-VIB22x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 2SkT/2C LTU
VL-VIB24x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 2SkT/4C LTU
VL-VIB28x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 2SkT/8C LTU
VL-VIB41x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 4SkT/1C LTU
VL-VIB42x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 4SkT/2C LTU
VL-VIB44x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 4SkT/4C LTU
VL-VIB48x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 4SkT/8C LTU
VL-VIB81x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 8SkT/1C LTU

VL-VIB82x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/2C LTU
VL-VIB84x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/4C LTU
VL-VIB88x-H4Y	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/8C LTU

VSI OpenVMS High Availability Operating Environment LTU (License-to-Use)	
VSI Product Number	Description
VL-VIH21x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/1C LTU
VL-VIH22x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/2C LTU
VL-VIH24x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/4C LTU
VL-VIH28x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/8C LTU
VL-VIH41x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/1C LTU
VL-VIH42x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/2C LTU
VL-VIH44x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/4C LTU
VL-VIH48x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/8C LTU
VL-VIH81x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/1C LTU
VL-VIH82x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/2C LTU
VL-VIH84x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/4C LTU
VL-VIH88x-H4Y	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/8C LTU

Note: In the Product Numbers above, an x indicates that licenses are available in physical (printed) form (P) or in electronic form (E). Indicate P or E when ordering.

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
VL-VIH21U-H4Y	VSI V842L3 BOE to HA-OE Upg 2S/1C LTU
VL-VIH22U-H4Y	VSI V842L3 BOE to HA-OE Upg 2S/2C LTU
VL-VIH24U-H4Y	VSI V842L3 BOE to HA-OE Upg 2S/4C LTU
VL-VIH28U-H4Y	VSI V842L3 BOE to HA-OE Upg 2S/8C LTU
VL-VIH41U-H4Y	VSI V842L3 BOE to HA-OE Upg 4S/1C LTU
VL-VIH42U-H4Y	VSI V842L3 BOE to HA-OE Upg 4S/2C LTU
VL-VIH44U-H4Y	VSI V842L3 BOE to HA-OE Upg 4S/4C LTU
VL-VIH48U-H4Y	VSI V842L3 BOE to HA-OE Upg 4S/8C LTU
VL-VIH81U-H4Y	VSI V842L3 BOE to HA-OE Upg 8S/1C LTU
VL-VIH82U-H4Y	VSI V842L3 BOE to HA-OE Upg 8S/2C LTU
VL-VIH84U-H4Y	VSI V842L3 BOE to HA-OE Upg 8S/4C LTU
VL-VIH88U-H4Y	VSI V842L3 BOE to HA-OE Upg 8S/8C LTU

Subscription Licenses

Tables 4 and 5 list the product number and description for OE Subscriptions. One Subscription is required for each active socket on HPE Integrity i2, i4, i6, and pre-i2 servers. Subscriptions are available in 1, 3, 4, 5-year terms with Bronze, Silver, Gold and Platinum levels (1-year Silver Subscriptions are shown in Table 4 below). A subscription must be renewed at the end of the term for continued proper system operation and uninterrupted support. Licenses terminate at the end of the subscription term.

**Table 4
Operating Environment Subscription**

VSI OpenVMS Base Operating Environment Subscription	
Product Number	Description
VB-VIB21P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 2Skt/1C 1 Year Silver 24x7 Subscription
VB-VIB22P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 2Skt/2C 1 Year Silver 24x7 Subscription
VB-VIB24P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 2Skt/4C 1 Year Silver 24x7 Subscription
VB-VIB28P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 2Skt/8C 1 Year Silver 24x7 Subscription
VB-VIB41P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 4Skt/1C 1 Year Silver 24x7 Subscription
VB-VIB42P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 4Skt/2C 1 Year Silver 24x7 Subscription
VB-VIB44P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 4Skt/4C 1 Year Silver 24x7 Subscription
VB-VIB48P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 4Skt/8C 1 Year Silver 24x7 Subscription
VB-VIB81P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/1C 1 Year Silver 24x7 Subscription
VB-VIB82P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/2C 1 Year Silver 24x7 Subscription
VB-VIB84P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/4C 1 Year Silver 24x7 Subscription
VB-VIB88P-B10	VSI OpenVMS I64 V8.4-2L3 BOE 8Skt/8C 1 Year Silver 24x7 Subscription

**Table 5
Operating Environment Subscription**

VSI OpenVMS High Availability Operating Environment Subscription	
Product Number	Description
VB-VIH21P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/1C 1 Year Silver 24x7 Subscription
VB-VIH22P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/2C 1 Year Silver 24x7 Subscription
VB-VIH24P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/4C 1 Year Silver 24x7 Subscription
VB-VIH28P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 2Skt/8C 1 Year Silver 24x7 Subscription
VB-VIH41P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/1C 1 Year Silver 24x7 Subscription
VB-VIH42P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/2C 1 Year Silver 24x7 Subscription
VB-VIH44P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/4C 1 Year Silver 24x7 Subscription
VB-VIH48P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 4Skt/8C 1 Year Silver 24x7 Subscription
VB-VIH81P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/1C 1 Year Silver 24x7 Subscription
VB-VIH82P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/2C 1 Year Silver 24x7 Subscription
VB-VIH84P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/4C 1 Year Silver 24x7 Subscription
VB-VIH88P-B10	VSI OpenVMS I64 V8.4-2L3 HA-OE 8Skt/8C 1 Year Silver 24x7 Subscription

Ordering OE Components Sold Separately

OE component products listed in Table 6 can be ordered separately. The license or LTU product number is for the individual OE component license. Initial delivery of product binaries for an OE component is through the purchase of an OE media kit (either physical or electronic). Each product listed in Table 6 is a System Integrated Product (SIP) and is included on the Operating System media.

Table 6 lists the operating environment components sold separately.

Table 6
Operating Environment Components Sold Separately

VSI Product Number	Description
VL-LIAM1x-30V	VSI Availability Manager PSL 1 Core 1 LTU
VL-LIAM2x-30V	VSI Availability Manager PSL 2 Core 2 LTU
VL-LIAM4x-30V	VSI Availability Manager PSL 4 Core 4 LTU
VL-LIAM8x-30V	VSI Availability Manager PSL 8 Core 8 LTU
VL-LICL1x-84V	VSI Cluster Client PSL 1 Core Server 1 LTU units
VL-LICL2x-84V	VSI Cluster Client PSL 1 Core Server 2 LTU units
VL-LICL4x-84V	VSI Cluster Client PSL 1 Core Server 4 LTU units
VL-LICL8x-84V	VSI Cluster Client PSL 8 Core Server 8 LTU units
VL-LIVC1x-84V	VSI Clusters PSL 1 Core 1 LTU
VL-LIVC2x-84V	VSI Clusters PSL 2 Core 2 LTU
VL-LIVC4x-84V	VSI Clusters PSL 4 Core 4 LTU
VL-LIVC8x-84V	VSI Clusters PSL 8 Core 8 LTU
VL-LIRF1x-52V	VSI Reliable Transaction Router, Front End PSL 1 Core Server 1 LTU units
VL-LIRF2x-52V	VSI Reliable Transaction Router, Front End PSL 2 Core Server 2 LTU units
VL-LIRF4x-52V	VSI Reliable Transaction Router, Front End PSL 4 Core Server 4 LTU units
VL-LIRF8x-52V	VSI Reliable Transaction Router, Front End PSL 8 Core Server 8 LTU units
VL-LIRJ1x-82V	VSI RMS Journaling PSL 1 Core Server 1 LTU units
VL-LIRJ2x-82V	VSI RMS Journaling PSL 2 Core Server 2 LTU units
VL-LIRJ4x-82V	VSI RMS Journaling PSL 4 Core Server 4 LTU units
VL-LIRJ8x-82V	VSI RMS Journaling PSL 8 Core Server 8 LTU units
VL-LIVS1x-84V	VSI Volume Shadowing PSL 1 Core 1 LTU
VL-LIVS2x-84V	VSI Volume Shadowing PSL 2 Core 2 LTU
VL-LIVS4x-84V	VSI Volume Shadowing PSL 4 Core 4 LTU
VL-LIVS8x-84V	VSI Volume Shadowing PSL 8 Core 8 LTU

Note: In the VSI Product Numbers above, an x indicates that licenses are available in physical (printed) form (P) or in electronic form (E). Indicate P or E when ordering.

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-H4Y)
- VSI strongly advises the purchase of at least one physical DVD media option per customer site.

Table 7 lists the media offerings available, along with their corresponding option numbers.

Table 7
OpenVMS Integrity Server Media Offerings and Options

Media Option	Description
SK-VIHKIT-H4Y	VSI OpenVMS V8.4-2L3 physical media kit
SE-VIHKIT-H4Y	VSI OpenVMS V8.4-2L3 electronic media kit
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
SE-VIHKIT-H41	VSI OpenVMS V8.4-1H1 electronic media kit

Note: VSI OpenVMS Version 8.4-1H1 is electronic only; physical media is not available.

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 send email to VSI 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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