



Software Product Description

**PRODUCT NAME: HP Operating Environments for OpenVMS for Integrity Servers
SPD 82.34.04**

DESCRIPTION

HP Operating Environments for OpenVMS for Integrity servers introduces a new delivery model for the OpenVMS I64 Operating System and OpenVMS Layered Products. This SPD describes the Operating Environment (OE) license bundles and revised media offerings for the December 2005 release of the OEs, supporting OpenVMS I64 Version 8.2-1.

Operating Environment License Bundles:

- Foundation Operating Environment (FOE)

The Foundation Operating Environment is the core environment. It includes the operating system, along with networking and infrastructure software. FOE component products are not orderable separately.

- Enterprise Operating Environment (EOE)

The Enterprise Operating Environment includes the FOE and adds system management tools. EOE component products not included in the FOE can be ordered separately.

- Mission Critical Operating Environment (MCOE)

The Mission Critical Operating Environment includes the Foundation and Enterprise Operating Environments and adds clustering and HP Reliable Transaction Router. MCOE component products not included in the FOE 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 Library CD or DVD
- Freeware CDs
- Open Source Tools CD
- Operating Environment Update CD or DVD (provided as needed for updating OE components)
- Hardcopy Documentation:
 - *HP OpenVMS License Management Utility Manual*
 - *HP OpenVMS Version 8.2-1 for Integrity Servers New Features and Release Notes*
 - *HP OpenVMS Version 8.2 Release Notes*
 - *HP OpenVMS Version 8.2-1 for Integrity Servers Upgrade and Installation Manual*

Table 1 lists the OE component products included with the currently shipping OE media. This SPD revises with each OE update to track OE component versions and ship dates.

Table 1
OpenVMS I64 Operating Environments

| OE Component | Version | SPD | Ship Date |
|---|---------|-------|-----------|
| Foundation Operating Environment - Media product BA322A* | | | |
| OpenVMS I64 Operating System | 8.2-1 | 82.35 | Sep 2005 |
| OpenVMS I64 Operating System/Japanese ¹ | 8.2 | 25.C4 | May 2005 |
| OpenVMS I64 Operating System/Hangul | 8.2-1 | | Dec 2005 |
| OpenVMS I64 Operating System/Hanzi | 8.2-1 | | Dec 2005 |
| CDSA | 2.1 | 82.35 | Mar 2005 |
| DECnet Phase IV | 8.2-1 | 48.48 | Sep 2005 |
| DECnet-Plus | 8.2-1 | 50.45 | Sep 2005 |
| DECprint Supervisor (DCPS) | 2.5 | 44.15 | Dec 2005 |
| DECprint Supervisor/Japanese | 2.4 | 48.27 | May 2005 |
| DECwindows Motif | 1.5 | 42.19 | Mar 2005 |
| DECwindows Motif/Japanese | 1.5 | 28.A8 | May 2005 |
| DECwindows Motif/Hangul | 1.5 | | Jun 2005 |
| DECwindows Motif/Hanzi | 1.5 | | Jun 2005 |
| Distributed Computing Environment (RT) | 3.2 | 43.05 | Mar 2005 |
| Java® Software Development Kit (SDK), <i>for the Java® platform</i> | 1.4.2-1 | 80.58 | Mar 2005 |
| Kerberos | 2.1 | 82.35 | Mar 2005 |
| NetBeans Suite | | 80.58 | Mar 2005 |
| NetBeans IDE | 3.6 | | Mar 2005 |
| Plugins: C/C++, EDT keypad, CMS Client | | 80.58 | Mar 2005 |
| OpenVMS Enterprise Directory | 5.5 | 81.03 | Dec 2005 |
| Performance Data Collector (TDC) | 2.1-78 | | Sep 2005 |
| Secure Web Browser | 1.7-11 | 80.58 | Dec 2005 |
| SSL | 1.2 | 80.58 | Mar 2005 |
| TCP/IP Services for OpenVMS | 5.5 | 46.46 | Mar 2005 |
| Web Management Agents | 3.2 | 82.35 | Sep 2005 |
| Web Server Suite | | 80.58 | Mar 2005 |
| Secure Web Server | 1.3-1 | 80.58 | Mar 2005 |
| CSWS_Java (Tomcat) | 2.1 | 80.58 | Mar 2005 |
| CSWS_Perl (mod_Perl) | 1.1-1 | 80.58 | Mar 2005 |
| CSWS_PHP (mod_PHP) | 1.2-1 | 80.58 | Mar 2005 |
| Perl | 5.6.1 | 80.58 | Mar 2005 |
| Web Services Toolkit | | 80.58 | Mar 2005 |
| SOAP Toolkit | 2.0 | 80.58 | Mar 2005 |
| UDDI Client Toolkit | 1.0 | 80.58 | Mar 2005 |
| Web Services Integration Toolkit (WSIT) | 1.0 | 80.58 | Dec 2005 |
| XML Technology | 2.0 | 80.58 | Mar 2005 |
| Enterprise Operating Environment - Media product BA323A* | | | |
| Availability Manager | 2.4-1 | 82.35 | Mar 2005 |
| DECram | | 34.26 | Mar 2005 |
| OpenVMS Management Station | 3.2D | 82.35 | Mar 2005 |
| RMS Journaling for OpenVMS | 8.2-1 | 27.58 | Sep 2005 |
| Volume Shadowing for OpenVMS | 8.2-1 | 27.29 | Sep 2005 |

¹Supports Version 8.2 and 8.2-1 FOE or EOE media (options A18 and A24).

Table 1 (Cont.)
OpenVMS I64 Operating Environments

Mission Critical Operating Environment - Media product BA324A*

| | | | |
|--|-------|-------|----------|
| VMS Cluster Client ² | 8.2-1 | 29.78 | Sep 2005 |
| VMS Cluster Software ² | 8.2-1 | 29.78 | Sep 2005 |
| Reliable Transaction Router, Back End ² | 8.2 | 51.04 | Sep 2005 |

²Order separately. MCOE will be introduced at a later date.

For information about future additions, please refer to the Software Public Rollout reports at:

<http://h71000.www7.hp.com/openvms/os/swroll/index.html>

Please refer to individual SPDs for details about the OE components. Component SPDs are listed in the SPD repository:

http://h18000.www1.hp.com/info/spd/spd_alpha.html

INSTALLATION

A subset of OE components can be factory installed. Products requiring customized installation are *not* included in factory installation. Binaries and online documentation for uninstalled OE components are provided with the system purchase. Please refer to the "Preinstalled Software Information Sheet" for a list of installed components. This information sheet is delivered with systems when factory installed software is requested.

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

HARDWARE REQUIREMENTS

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

SOFTWARE REQUIREMENTS

Unless otherwise noted, the OE components support OpenVMS Version 8.2-1. Some components will also support OpenVMS Version 8.2. 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 OpenVMS I64 OEs may be different from the requirements for the current version.

SOFTWARE LICENSING

OpenVMS OEs are offered with Per-Processor Licenses (PPLs). One PPL is required for each active physical processor in a system or hard partition. If additional processors are later added to the system or hard partition, each requires an additional PPL.

An OE license grants the right to use all the components included in the specified OE.

For OEs, three hardware tiers are defined:

- Maximum of 2 Sockets (rx16xx, rx26xx)
- Maximum of 4 Sockets (rx46xx)
- Unlimited Sockets (rx76xx, rx86xx, Superdome)

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

Other differences from OpenVMS Alpha and OpenVMS VAX licensing practices are as follows:

- User licenses are not required. The FOE 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 OpenVMS licensing terms and policies, contact your local HP sales office, or find HP software licensing information on the World Wide Web at:

<http://licensing.hp.com/swl/view/slm?page=index>

SOFTWARE MEDIA

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.

| | |
|---|---------|
| HP VMS I64 MCOE PPL LTU Max2 Sock w/o Sys | BA454AC |
| HP VMS I64 MCOE PPL LTU Max4 Sock w/o Sys | BA400AC |
| HP VMS I64 MCOE PPL LTU Unltd Soc w/o Sys | BA331AC |

SOFTWARE DOCUMENTATION

Online documentation is included with all product binary offerings. Hardcopy documentation is available for most products. Manuals typically include information about all three OpenVMS platforms (VAX, Alpha, and I64). See the *Ordering Information* section for details.

Ordering OE License Upgrades

The OE license upgrade allows the customer to trade in an existing OE license to move to a higher OE socket license or to a higher OE level for OpenVMS I64. A new PAK is required for the new license. The old license and PAK are terminated according to the process for trademarks.

Process:

1. The customer orders the new OE using the standard OE product number.
2. The field applies an Upgrade Credit option product number for the OE the customer is upgrading (trading in).
3. The customer must trade in his original license, and remove it from support (if covered). Support is added to the order for the new license, which is then added to the customer contract.

ORDERING INFORMATION

Ordering OE licenses

Table 2 and Table 3 list the licenses for each OE. One license is required for each active processor. The license type is the PPL (Per-Processor License); LTU is License-to-Use. "With system" means there is an Integrity server on the order. "Without system" means there is no Integrity server on the order.

Table 4 lists the OE license upgrade options.

**Table 2
Operating Environment Software
Licenses Sold WITH System**

| Common Description | Product no. |
|---|-------------|
| HP VMS I64 FOE PPL LTU Max2 Sock w/Sys | BA453AC |
| HP VMS I64 FOE PPL LTU Max4 Sockt w/ Sys | BA325AC |
| HP VMS I64 FOE PPL LTU Unltd Sockt w/ Sys | BA329AC |
| HP VMS I64 EOE PPL LTU Max2 Sock w/ Sys | BA451AC |
| HP VMS I64 EOE PPL LTU Max4 Sockt w/ Sys | BA397AC |
| HP VMS I64 EOE PPL LTU Unltd Sockt w/ Sys | BA327AC |
| HP VMS I64 MCOE PPL LTU Max2 Sock w/Sys | BA455AC |
| HP VMS I64 MCOE PPL LTU Max4 Sockt w/ Sys | BA399AC |
| HP VMS I64 MCOE PPL LTU Unltd Sock w/ Sys | BA328AC |

**Table 4
OE License Upgrade Options**

| Common Description |
|--|
| HP LTU Upgr credit from VMS FOE 2 Socket |
| HP LTU Upgr credit from VMS FOE 4 Socket |
| HP LTU Upgr credit from VMS FOE Unlimited |
| HP LTU Upgr credit from VMS FOE 2 socket |
| HP LTU Upgr credit from VMS EOE 4 socket |
| HP LTU Upgr credit from VMS EOE Unlimited |
| HP LTU Upgr credit from VMS MCOE 2 Socket ¹ |
| HP LTU Upgr credit from VMS MCOE 4 socket ¹ |

¹The MCOE will be introduced later in the OpenVMS I64 Software Rollout.

**Table 3
Operating Environment Software
Licenses Sold WITHOUT System**

| Common Description | Product no. |
|---|-------------|
| HP VMS I64 FOE PPL LTU Max2 Sock w/o Sys | BA452AC |
| HP VMS I64 FOE PPL LTU Max4 Sock w/o Sys | BA338AC |
| HP VMS I64 FOE PPL LTU Unltd Sock w/o Sys | BA326AC |
| HP VMS I64 EOE PPL LTU Max2 Sock w/o Sys | BA450AC |
| HP VMS I64 EOE PPL LTU Max4 Sock w/o Sys | BA398AC |
| HP VMS I64 EOE PPL LTU Unltd Sock w/o Sys | BA330AC |

Ordering OE Media and Media Options

Media is offered for Foundation, Enterprise, and Mission Critical Operating Environments. Purchase of an OE media product requires purchase of a corresponding OE license on the same order.

Table 5 lists the media product offerings for the three OEs. Table 6 lists the options available with each media product number.

Table 5
OpenVMS I64 Media Offerings

| Common Description | Product No. |
|--|-------------|
| HP OpenVMS I64 FOE Media | BA322AA |
| HP OpenVMS/Japanese I64 FOE Media | BA322AJ |
| HP OpenVMS/Hangul I64 FOE Media | BA322AK |
| HP OpenVMS/Hanzi I64 FOE Media | BA322AS |
| HP OpenVMS I64 EOE Media | BA323AA |
| HP OpenVMS/Japanese I64 EOE Media | BA323AJ |
| HP OpenVMS/Hangul I64 EOE Media | BA323AK |
| HP OpenVMS/Hanzi I64 EOE Media | BA323AS |
| HP OpenVMS I64 MCOE Media ¹ | BA324A* |

¹The MCOE will be introduced later in the OpenVMS I64 Software Rollout.

Table 6
OpenVMS I64 Media Options

| Description | Media Option |
|-----------------------------------|--------------|
| HP VMS I64 Version 8.2 | #A18 |
| HP VMS I64 Version 8.2-1 | #A24 |
| DVD Media | #AJR |
| Factory Installation ¹ | #0D1 |

¹Factory installation is not offered for Japanese Media. English-only factory installation is offered for Hanzi and Hangul.

Each media order must include the OE Version option. Please specify option #A24 for Version 8.2-1.

For each media order, one of the following must be ordered:

- DVD Media (option #AJR)
- Factory Installation (option #0D1)
- DVD Media and Factory Installation (options #AJR and #0D1)

The purchase of at least one DVD Media option per customer site is strongly advised, because not all items in the DVD Media are included in the Factory Installation.

Product update media are delivered through a Support Agreement.

Ordering OE Components Sold Separately

The license and media product numbers listed in Table 7 for EOE and MCOE component products can be ordered separately. The license or LTU product number is for the individual OE component license. The media product number is for the individual OE component as well and must be included in the order to ensure the delivery of updates. The initial delivery of product binaries for any OE component is through the purchase of an OE Media Kit.

Table 7
Operating Environment
Components Sold Separately

| Common Description | Product No. |
|---|-------------|
| HP Availability Manager VMS I64 PPL LTU | BA418AC |
| HP Availability Manager VMS I64 Media | BA418AA |
| HP Cluster Client VMS I64 PPL LTU | BA411AC |
| HP Cluster Client VMS I64 Media | BA419AA |
| HP Clusters for VMS I64 PPL LTU | BA412AC |
| HP Clusters for VMS I64 Media | BA420AA |
| HP DECram VMS I64 PPL LTU | BA407AC |
| HP DECram VMS I64 Media | BA415AA |
| HP Dnet-Plus Ext Funct VMS I64 PPL LTU | BA406AC |
| HP Dnet-Plus Ext Funct VMS I64 Media ¹ | BA414AA |
| HP OpenVMS Mgmt Station VMS I64 PPL LTU | BA425AC |
| HP OpenVMS Mgmt Station VMS I64 Media | BA425AA |
| HP RTR Back End VMS I64 PPL LTU | BA408AC |
| HP RTR Back End VMS I64 Media | BA416AA |
| HP RMS Journaling for VMS I64 PPL LTU | BA409AC |
| HP RMS Journaling VMS I64 Media | BA416AA |
| HP Volume Shadowing VMS I64 PPL LTU | BA413AC |
| HP Volume Shadowing VMS I64 Media | BA421AC |

¹Media update is included with FOE update.

Ordering Hardcopy Documentation

Tables 8 and 9 show hardcopy documentation available for the OEs. The documentation applies to OpenVMS on both Integrity servers and on AlphaServers. Two order numbers are shown. Either order number delivers the same documentation at the same price. Use the BA-MN number if the order includes Integrity servers. Use the QA-GZ number if the same documents are ordered separately or with AlphaServers.

Table 8
Hardcopy Documentation Sets

| Description | Integrity Server Order No. | Alpha-Server Order No. |
|--|----------------------------|------------------------|
| HP OpenVMS Base Documentation | BA555MN | QA-09SAA-GZ |
| HP OpenVMS Full Documentation | BA554MN | QA-001AA-GZ |
| HP OpenVMS OE Extension Manuals ¹ | BA401MN | not available |

¹DECnet-Plus, DECprint Supervisor, DECwindows Motif, DCE and TCP/IP manuals are included. RTR manuals are not included.

Table 9
Hardcopy Documentation for OE Component Products

| Description | Integrity Server Order no. | Alpha-Server Order No. |
|--------------------------------------|----------------------------|------------------------|
| HP DCE for OpenVMS | BA361MN | QA-24CAA-GZ |
| HP DECnet-Plus for OpenVMS | BA406MN | QA-MTFAA-GZ |
| HP DECprint Supervisor (DCPS) | BA552MN | QA-09NAA-GZ |
| HP DECwindows Motif for OpenVMS | BA402MN | QA-MV4AB-GZ |
| HP Reliable Transaction Router (RTR) | BA416MN | QA-XNCAA-GZ |
| HP TCP/IP Services for OpenVMS | BA548MN | QA-0LXAA-GZ |

Trade-in Policy

License trade-ins are available for OpenVMS I64 Operating Environments. HP 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:

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

Enterprise Operating Environment (EOE) - The EOE is also sold and supported at a package level; however, the additional EOE component products are also available for sale or service at an individual level.

Mission Critical Operating Environment (MCOE) - The MCOE, like the EOE, is sold and supported at the package level, and the additional MCOE component products are available for sale or service at an individual level.

A variety of service options are available from HP. For more information, contact your local HP account representative or distributor. Information is also available at the following web site: www.hp.com/hps/software.

SOFTWARE WARRANTY

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

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