



Software Product Description

**PRODUCT NAME: HP Operating Environments for OpenVMS for Integrity Servers
SPD 82.34.10**

DESCRIPTION

This SPD describes the HP Operating Environments for OpenVMS for Integrity Servers, including Operating Environment (OE) license bundles and revised media offerings for the October 2007 release of the OEs, supporting OpenVMS Version 8.3-1H1.

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 media for Operating Environments and Layered Products
- Freeware CDs
- Open Source Tools CD
- Operating Environment Update media (provided as needed for updating OE components)
- Hardcopy Documentation:
 - *HP OpenVMS License Management Utility Manual*
 - *HP OpenVMS Version 8.3-1H1 New Features and Release Notes*
 - *HP OpenVMS Version 8.3 Release Notes*
 - *HP OpenVMS Version 8.3-1H1 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 for Integrity Servers Operating System	8.3-1H1	82.35	Nov 2007
OpenVMS for Integrity Servers Operating System/Japanese	8.3	25.C4	Nov 2006
OpenVMS for Integrity Servers Operating System/Hangul	8.3	82.37	Nov 2006
OpenVMS for Integrity Servers Operating System/Hanzi	8.3	82.36	Nov 2006
Common Data Security Architecture (CDSA)	2.3	82.35	Nov 2007
DECnet-Plus for OpenVMS End System	8.3-1H1	50.45	Nov 2007
DECnet IV	8.3-1H1	48.48	Nov 2007
DECprint Supervisor (DCPS)	2.6	44.15	May 2007
DECprint Supervisor/Japanese	2.5	48.27	Nov 2007
DECwindows Motif	1.6	42.19	Sep 2006
DECwindows Motif/Japanese	1.6	28.A8	Nov 2006
DECwindows Motif/Hangul	1.6	46.96	Nov 2006
DECwindows Motif/Hanzi	1.6	46.95	Nov 2006
Distributed Computing Environment (RT)	3.2	43.05	Mar 2005
Java™ Platform, Standard Edition, Development Kit (JDK)	1.5.0-2	80.58	Nov 2007
Kerberos	3.1	82.35	Nov 2007
NetBeans Suite		80.58	
Distributed NetBeans	1.1-1	80.58	Mar 2006
NetBeans IDE	3.6		Mar 2005
Plugins ¹			Mar 2005
OpenVMS Enterprise Directory	5.5ECO1	81.03	Dec 2005
OpenVMS I18N	8.3-1H1	82.35	Nov 2007
Pay per use (PPU)	8.0	82.35	Sep 2006
Performance Data Collector (TDC)	2.3	82.35	Nov 2007
Secure Web Browser	1.7-13	80.58	Sep 2006
Secure Sockets Layer (SSL)	1.3	80.58	Sep 2006
TCP/IP Services for OpenVMS	5.6-9ECO2	46.46	Nov 2007
WBEM/CIM	2.6		Nov 2007
WBEM Providers	1.5		Nov 2007
Web Management Agents	3.4	82.35	Sep 2006
Web Server Suite		80.58	Mar 2005
Secure Web Server	2.1-1ECO	80.58	Nov 2007
CSWS_Java (Tomcat)	3.0	80.58	Mar 2006
CSWS_Perl (mod_Perl)	2.1	80.58	Mar 2006
CSWS_PHP (mod_PHP)	1.3	80.58	Mar 2006
Perl	5.8-6	80.58	Sep 2006
Web Services Toolkit		80.58	Mar 2005
Simple Object Access Protocol (SOAP) Toolkit	2.0	80.58	
UDDI Client Toolkit	1.0	80.58	Mar 2005
Web Services Integration Toolkit (WSIT)	1.2	80.58	Feb 2007
XML Technology	2.0	80.58	Mar 2005
Enterprise Operating Environment - Media product BA323A*			
Availability Manager	3.0-1	82.35	Nov 2007
DECram		34.26	Mar 2005
OpenView Performance Agent	4.0		Sep 2006
OpenVMS Management Station	3.3	82.35	Sep 2006
RMS Journaling for OpenVMS	8.3-1H1	27.58	Nov 2007
Volume Shadowing for OpenVMS	8.3-1H1	27.29	Nov 2007

¹Plugins include BASH, C/C++, CMS Client, COBOL, DCL, EDT Keypad, FORTRAN, MMS

Table 1 (Cont.)
OpenVMS I64 Operating Environments

Mission Critical Operating Environment - Media product BA324A*

VMS Cluster Client	8.3-1H1	29.78	Nov 2007
VMS Cluster Software	8.3-1H1	29.78	Nov 2006
Reliable Transaction Router, Back End	5.1	51.04	May 2007

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://www.hp.com/go/spd>

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 8.3-1H1. 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 OpenVMS I64 OEs may be different from the requirements for the current version.

SOFTWARE LICENSING

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

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

For OEs, four hardware tiers are defined:

- Tier C (used for HP BL860c Integrity Server Blade)
- Maximum of 2 processor sockets (rx16xx, rx26xx)
- Maximum of 4 processor sockets (rx46xx)
- Unlimited processor sockets (rx76xx, rx86xx, Superdome)

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

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.

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 INFORMATION

Ordering OE licenses

Table 2 and Table 3 list the licenses for each OE. One license is required for each active processor core. The license type is the PCL (Per-processor Core 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 2
Operating Environment Software
Licenses Sold WITH System**

Common Description	Product no.
HP VMS I64 FOE PCL LTU Tier C w/ Sys	BA819AC
HP VMS I64 FOE PCL LTU Max2 Proc w/ Sys	BA453AC
HP VMS I64 FOE PCL LTU Max4 Proc w/ Sys	BA325AC
HP VMS I64 FOE PCL LTU Unltd Proc w/ Sys	BA329AC
HP VMS I64 EOE PCL LTU Tier C w/ Sys	BA817AC
HP VMS I64 EOE PCL LTU Max2 Proc w/ Sys	BA451AC
HP VMS I64 EOE PCL LTU Max4 Proc w/ Sys	BA397AC
HP VMS I64 EOE PCL LTU Unltd Proc w/ Sys	BA327AC
HP VMS I64 MCOE PCL LTU Tier C w/Sys	BA821AC
HP VMS I64 MCOE PCL LTU Max2 Proc w/Sys	BA455AC
HP VMS I64 MCOE PCL LTU Max4 Proc w/Sys	BA399AC
HP VMS I64 MCOE PCL LTU Unltd Proc w/Sys	BA328AC

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

Common Description	Product no.
HP VMS I64 FOE PCL LTU Tier C w/o Sys	BA818AC
HP VMS I64 FOE PCL LTU Max2 Proc w/o Sys	BA452AC
HP VMS I64 FOE PCL LTU Max4 Proc w/o Sys	BA338AC

HP VMS I64 FOE PCL LTU Unltd Proc w/oSys	BA326AC
HP VMS I64 EOE PCL LTU Tier C w/o Sys	BA816AC
HP VMS I64 EOE PCL LTU Max2 Proc w/ Sys	BA451AC
HP VMS I64 EOE PCL LTU Max4 Proc w/o Sys	BA398AC
HP VMS I64 EOE PCL LTU Unltd Proc w/oSys	BA330AC
HP VMS I64 MCOE PCL LTU Tier C w/oSys	BA820AC
HP VMS I64 MCOE PCL LTU Max2 Proc w/oSys	BA454AC
HP VMS I64 MCOE PCL LTU Max4 Proc w/oSys	BA400AC
HP VMS I64 MCOE PCL LTU UnltdProc w/oSys	BA331AC

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 trade-ins.

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.

Table 4 lists the OE license upgrade options.

**Table 4
OE License Upgrade Options**

Common Description	Product No.
HP Upgr credit from VMS FOE Tier C LTU	BA819ACN#130
HP Upgr credit from VMS FOE 2 Proc LTU	BA453ACN#130
HP Upgr credit from VMS FOE 4 Proc LTU	BA325ACN#130
HP Upgr credit VMS FOE Unltd Proc LTU	BA326ACN#130
HP Upgr credit from VMS EOE Tier C LTU	BA817ACN#130
HP Upgr credit from VMS EOE 2 Proc LTU	BA451ACN#130
HP Upgr credit from VMS EOE 4 Proc LTU	BA397ACN#130
HP Upgr credit VMS EOE Unltd Proc LTU	BA327ACN#130
HP Upgr credit from VMS MCOE Tier C LTU	BA821ACN#130
HP Upgr credit from VMS MCOE 2 Proc LTU	BA455ACN#130
HP Upgr credit from VMS MCOE 4 Proc LTU	BA399ACN#130

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.

Hangul (Korean) and Hanzi (Simplified Chinese) software is included in the base media kits. Translated documentation is available online at the OpenVMS Website: <http://h71000.www7.hp.com/doc/localized.html>.

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 ¹	BA322AA
HP OpenVMS/Japanese I64 FOE Media	BA322AJ
HP OpenVMS I64 EOE Media ¹	BA323AA
HP OpenVMS/Japanese I64 EOE Media	BA323AJ
HP OpenVMS I64 MCOE Media ¹	BA324AA
HP OpenVMS/Japanese I64 MCOE Media	BA324AJ

¹Translated software for Hanzi and Hangul are included in the English media offerings.

Table 6
OpenVMS I64 Media Options

Description	Media Option
HP VMS I64 Version 8.3-1H1	#A57
HP VMS I64 Version 8.3	#A35
DVD Media	#AJR
Factory Installation ¹	#0D1

¹English-only factory installation is offered for Hanzi and Hangul.

Each media order must include the OE Version option. Please specify option #A57 for Version 8.3-1H1.

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 OE component products listed in Table 7 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 7
Operating Environment Components Sold Separately

Common Description	Product No.
HP Availability Manager VMS I64 PCL LTU	BA418AC
HP Availability Manager VMS I64 Media	BA418AA
HP Cluster Client VMS I64 PCL LTU	BA411AC
HP Cluster Client VMS I64 Media ¹	"SIP"
HP Clusters for VMS I64 PCL LTU	BA412AC
HP Clusters for VMS I64 Media ¹	"SIP"
HP Clusters VMS I64 Tier C PCL LTU	BA825AC
HP Clusters VMS I64 Tier C Media ¹	"SIP"
HP DECram VMS I64 PCL LTU	BA407AC
HP DECram VMS I64 Media ¹	"SIP"
HP Dnet-Plus Ext Funct VMS I64 PCL LTU	BA406AC
HP Dnet-Plus Ext Funct VMS I64 Media ¹	"SIP"
HP OpenView Perf Agent VMS Tier* LTU	T400*AA ²
HP OV Ops/Perf 7.x for "nn" Media	B7490nn ³
HP OpenVMS Mgmt Station VMS I64 PCL LTU	BA425AC
HP OpenVMS Mgmt Station VMS I64 Media	BA425AA
HP RTR Back End VMS I64 PCL LTU	BA408AC
HP RTR Back End VMS I64 Media	BA416AA
HP RMS Journaling for VMS I64 PCL LTU	BA409AC
HP RMS Journaling VMS I64 Media ¹	"SIP"
HP Volume Shadowing VMS I64 PCL LTU	BA413AC
HP Volume Shadowing VMS I64 Media ¹	"SIP"

¹System Integrated Product (SIP), included on OS Media.

²Asterisk "*" denotes license tier. Tier0=1, Tier1=2, Tier2=3, Tier4=5

³"nn" denotes platform. OpenView Performance Agent for OpenVMS (OVPA) ships in the following media kits: HP-UX=BA, Sun Solaris=EA. Windows=XA

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-XNKAA-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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