



OpenVMS Rolling Roadmap

This information contains forward looking statements and is provided solely for your convenience. While the information herein is based on our current best estimates, such information is subject to change without notice.

OpenVMS Rolling Roadmap

August 2016

2016 / 2017

2018

OpenVMS V8.4-2L1

Limited Software Release

- Updated SSL to 1.0.2h
- Updated key exchanges
- 0.9.8/1.0.2 coexistence mechanism
- VSI and HPE libraries and shareable images are compatible
- 0.9.8 no longer supported

SSL-Related Capabilities

- Updated for compatibility with 1.0.2: TCP/IP, ENCRYPT, NOTARY, LDAP, ACMELDAP, Enterprise Directory, WBEM services, WBEM providers, CSWS

Patch Kits

- Includes contents of patch kits issued through June, 2016

JVMS

- OS and LP Japanese kits

OpenVMS V8.x,.....

HPE Integrity System Support

- 16Gb Fibre Channel for rx2800
- HPE Kittson-based servers

Software Updates

- JAVA 1.8
- VSI TCP/IP 1.0
- OMNI / OSAP
- 64b Availability Manager
- CRTL: C99 features, header updates

New File System / 64b LBNs

- In addition to ODS-2 and ODS-5
- Eliminate 2TB volume size limit, better performance and much more

Recently-Announced Support

- 3PAR 8000/20000 Flash Arrays

Soon to be Announced/Released

- C++ compiler
- MSA2040 support
- LTO-7 support
- MSL6480 support

OpenVMS V9.0

Itanium & x86-64

- Network stack performance
- Containers

Itanium

Additional servers & I/O, depending on customer feedback

x86-64

- OpenVMS as a virtual machine guest
- Selected HPE Servers (Intel and AMD)
- Same compilers supported as on Itanium with standards updates for
 - C
 - C++
 - FORTRAN
- OpenJDK
- Dynamic Binary Translator (Alpha/Itanium)

Multiple releases may occur between V8.4-2L1 and V9.0. The order in which various improvements are added to these releases will be determined by readiness, hardware availability, and customer feedback.

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Research Areas

- **Virtual Machine Guest**
 - kvm
 - xen
 - VirtualBox
 - VMware
- **Containers / Docker**
- **Hadoop**
- **Cloud**
 - OpenStack
 - Rackspace
 - Apache jclouds
- **Security**
 - Encryption
 - Communications
 - Data at Rest
 - Crash Dumps
 - UEFI Secure Boot
- **Additional Scripting Language**
- **Open Source Databases**
- **Alpha Investigation**
 - Upgrade Paths to Support
 - Platforms to Support
 - Layered Products Needed

OpenVMS Operating Environment

Released

August 2016

BOE Components:

- V8.4-2 operating system (03/31/16)
- ANT (05/13/15)
- AXIS2 (05/13/15)
- CDSA (05/13/15)
- CIFS (05/13/15)
- CSWS (03/31/16)
- CSWS_JAVA (03/31/16)
- CSWS_PHP (03/31/16)
- DCPS (05/13/15)
- DECnet Phase IV (05/13/15)
- DECnet Phase V (03/31/16)
- DECram (05/13/15)
- DECwindows Motif (03/31/16)
- DCE (runtime) (05/13/15)
- ENCRYPT (05/13/15)
- Enterprise Directory (03/31/16)
- Kerberos (05/13/15)
- PERL (05/13/15)
- OpenSSL (05/13/15)
- TCP/IP (05/13/15)
- The Data Collector (03/31/16)
- UDDI (05/13/15)
- VSI Binary Checker (05/13/15)
- WBEM/CIM (03/31/16)
- WBEM providers (03/31/16)
- WSIT (05/13/15)
- XML C++ (05/13/15)
- XML_JAVA (09/24/15)

HAOE components:

- Availability Manager (05/13/15)
- RMS Journaling (05/13/15)
- Volume Shadowing (05/13/15)
- OpenVMS Cluster Client (05/13/15)
- OpenVMS Cluster Software (05/13/15)

BOE Components:

- ACMELDAP (updated)
- CSWS (update)
- CSWS_JAVA (update)
- CSWS_PHP (update)
- ENCRYPT (update)
- Enterprise Directory (update)
- JVMMS (new)
- LDAP (update)
- NOTARY (update)
- OpenSSL (update)
- TCP/IP (update)
- WBEM/CIM (update)
- WBEM providers (update)

HAOE components:

- None

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OpenVMS Layered Products

Released

August 2016

- ABS / MDMS (09/24/15)
- ACMS dev, remote, runtime (05/13/15)
- BASIC (05/13/15)
- C (05/13/15)
- COBOL (05/13/15)
- Datatrieve (09/24/15)
- DECforms dev, runtime (03/31/16)
- DECset (03/31/16)
(CMS, DTM, MMS, SCA, LSE, PCA)
- DFO (09/24/15)
- DFS (05/13/15)
- FMS dev, runtime (09/24/15)
- FORTRAN (03/31/16)
- MRU (09/24/15)
- PASCAL (05/13/15)
- SSM (03/31/16)
- TDMS dev, runtime (09/24/15)
- FORTRAN (update)

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Open Source Products Tested on OpenVMS

Available

- ActiveMQ 5.10.0
- cURL and libcurl 7.49.0 (includes OpenSSL 1.0.2h support)
- Lua 5.2.3
- Mosquitto 1.3.5 (MQTT broker)
- Paho-C 1.0.3 (MQTT client)
- PHP 5.6.10
- Ruby 2.2.2
- Subversion 1.8.13
- SWIG 3.0.5
- vgit
- ZeroMQ 4.1.2

Investigating

- Erlang
- gSOAP
- Ingres
- MariaDB
- PostgreSQL
- Python
- R

Prior VSI OpenVMS Releases

May 2015

March 2016

OpenVMS V8.4-1H1

Itanium® Processor 9500 series

- New CPU architecture
- Vastly improved performance

HP Integrity System Support

- rx2800
- HP Integrity Server Blades
 - BL860c
 - BL870c
 - BL890c
- Blades FlexFabric LAN support
- 9300 series blades and rx2800

Software

- Quality Enhancements
 - Operating System
 - Layered Products
- Product Rebranding

OpenVMS V8.4-2

HPE Integrity System Support

- Full BL890c Support
 - 64 Cores (hyperthreads off)
 - 1.5 TB Memory
- AUTOGEN (large memory)
- UEFI 2.3
- Network Boot for i4 Blades
- WBEM for i4
- rx7640 / rx8640

Performance

- More alignment faults eliminated
- Tunable BACKUP Compression

Software Component Updates

- Enterprise Directory 5.7
- CSWS (based on Apache 2.4.12)
- LDDRIVER 9.7
- Latest Time Zone Definitions
- I18N (for localized language support)
- Digital Signing 2.0
- Rebranding 2.0

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