



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

2017

2018

2019

Q1 2017

- Alpha V8.4-2L1 Operating System
- Itanium
 - JAVA 1.8
 - 64b Availability Manager
 - Digital Signing for ISVs
 - OpenSSL 1.0.2j

Q2 2017

- Alpha Layered Products
- VSI TCP/IP 10.5
- CRTL: C99 features, header updates

Q4 2017 - OpenVMS V8.x

HPE Integrity System Support

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

VMS Advanced File System

- Improved Performance over ODS-2/5
- Current (32b) Size Limitations

Enhanced Password Management

OpenVMS V9.0

Itanium & x86-64

- Increased Network Performance
- Stronger Password Encryption
- VMS Advanced File System: Support for Disks > 2TB

Itanium

Additional servers & I/O devices, depending on customer feedback

x86-64 Early Adopters

- Cross-built on Itanium
- OpenVMS as a virtual machine guest
- Selected HPE Servers (Intel and AMD)
- Graphical Boot Manager

OpenVMS V9.x

Itanium & x86-64

- Security
 - Secure Boot
 - Encrypted Crash Dumps
 - Volume (Data-at-Rest) Encryption
- Enhanced Application Isolation and Management

x86-64 General Release

- Native Build
- More virtual machine guest options
- OpenJDK
- Dynamic Binary Translator for Alpha and Itanium Images
- Same compilers supported as on Itanium plus standards updates for
 - C
 - C++
 - FORTRAN

Additional releases may occur. The order in which various improvements are added to these releases will be determined by readiness, hardware availability, and customer feedback. Depending on timing, Independent Kit candidates may be introduced in a release.

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Research Areas

- **Virtual Machine Guest**
 - kvm
 - xen
 - VirtualBox
 - VMware
- **Containers / Docker**
- **Hadoop**
- **Cloud**
 - OpenStack
 - Rackspace
 - Apache jclouds
- **RoCEv2**
- **UTF-8**
- **Security**
 - Encryption
 - Communications
 - Passwords
 - Data at Rest
 - Crash Dumps
 - Secure Boot
- **Additional Scripting Language**
- **Open Source Databases**
 - Ingres
 - MariaDB
 - PostgreSQL

OpenVMS Operating Environment

Released

BOE Components:

- V8.4-2L1 operating system (08/31/16)
- ACMELDAP (08/31/16)
- ANT (05/13/15)
- AXIS2 (05/13/15)
- CDSA (05/13/15)
- CIFS (05/13/15)
- CSWS (08/31/16)
- CSWS_JAVA (08/31/16)
- CSWS_PHP (08/31/16)
- DCPS (05/13/15)
- DECnet Phase IV (08/31/16)
- DECnet Phase V (03/31/16)
- DECram (08/31/16)
- DECwindows Motif (03/31/16)
- DCE (runtime) (05/13/15)
- ENCRYPT (08/31/16)
- Enterprise Directory (08/31/16)
- JVMMS (09/26/16)
- Kerberos (05/13/15)
- LDAP (08/31/16)

- NOTARY (08/31/16)
- OpenSSL (08/31/16)
- PERL (05/13/15)
- TCP/IP (08/31/16)
- The Data Collector (03/31/16)
- UDDI (05/13/15)
- VSI Binary Checker (08/31/16)
- WBEM/CIM (08/31/16)
- WBEM providers (08/31/16)
- WSIT (05/13/15)
- XML C++ (05/13/15)
- XML_JAVA (09/24/15)

HAOE components:

- Availability Manager (08/31/16)
- RMS Journaling (08/31/16)
- Volume Shadowing (08/31/16)
- OpenVMS Cluster Client (08/31/16)
- OpenVMS Cluster Software (08/31/16)

Planned

BOE Components:

- CSWS additional modules
- GNV Updates

HAOE components:

- RTR

OpenVMS Layered Products

Released

- ABS / MDMS (09/24/15)
- ACMS dev, remote, runtime (05/13/15)
- BASIC (05/13/15)
- C (05/13/15)
- C++ (08/31/16)
- 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 (08/31/16)
- MRU (09/24/15)
- PASCAL (05/13/15)
- SSM (03/31/16)
- TDMS dev, runtime (09/24/15)

Planned

- OMNI / OSAP

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
- Precision Time Protocol (PTP)
- Python
- R

Prior VSI OpenVMS Releases

May 2015

March 2016

August 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

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 15, 2016



For more information, please contact us at:

RnD@vmssoftware.com

VMS Software, Inc. • 580 Main Street • Bolton MA 01740 • +1 978 451 0110