

OpenVMS Update

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OpenVMS Support

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Agenda

- OpenVMS Base Directions & Roadmap
- OpenVMS Releases 2001
- OpenVMS Alpha V7.3-1
- OpenVMS Alpha V7.3-next
- OpenVMS Alpha V7.Next
- OpenVMS V.next
- Prior Version support

OpenVMS Releases 2001

OpenVMS V7.3

Alpha
VAX

- FRS = Shipping Now!
- Highlights:
 - Availability
 - ATM & Gigabit Ethernet as Cluster Interconnects
 - Volume Shadowing Minicopy
 - Fibre Channel Tape Support
 - CPU Hot Swap for the GS80/160/320 systems
 - Performance
 - Fastpath for SCSI & Fibre Channel
 - Extended File Cache (XFC)
 - Lock Manager performance enhancements
 - Security
 - Kerberos MIT V5
 - Clusterwide Intrusion Detection

OpenVMS V7.2-2

Alpha

- FRS = Shipping Now!
- Focus: Maintenance, performance, HW support, mixed version compatibility
- Contents:
 - SMP and System Performance Enhancements
 - Fibre Channel Tape support
 - Volume Shadowing Minicopy feature
 - Maintenance
- No application changes from earlier V7.2x releases
- Remedial support for VMS Alpha V7.2, V7.2-1 and V7.2-1H1 ends 30-Jun-02.
- OpenVMS Alpha V7.2-2 will receive standard support through 12/2002, followed by 18 months of PVS support.

OpenVMS Alpha V7.3-1

OpenVMS V7.3-1

Alpha

- Expected shipment date = mid CY2002
- Focus Areas:
 - System Performance
 - Fibre/SAN Environment
 - RAS Feature
 - Security
 - Easier porting of UNIX application to VMS
 - C-RTL & RMS enhancements
 - New hardware support
 - Compaq Secure Web Browser (based on Mozilla)

Performance Enhancements

Alpha

Faster system & application performance!

- Performance Improvements in:
 - I/O
 - SMP and General System Performance
 - System Scaling
 - NUMA Enhancements

Fibre/SAN and I/O enhancements

Higher availability & Performance!

- Fibre Channel I/O performance enhancements
 - Reduction in IOlock8 usage in FC port drivers)
 - Interrupts off the Primary
- Multi-path Failover for Served Devices
- Multi-path Tapes for Fibre Channel

OpenVMS SMP & System Performance

Faster system & application performance!

- Performance Improvements in the areas of:
 - AST Delivery
 - Mailbox IO
 - Time Queue Processing
 - PEdriver Check-summing
 - RMS Global Buffers Locking
 - Faster SYS\$GETJPI service used by CRTL
 - Improved Kernel Threads performance for multi-thread applications
 - Shadowing IO completion

Scaling and NUMA Enhancements

Alpha

- Scaling Enhancements
 - Larger WSMAX or BALSETCNT due to reduced usage of SOS1 by the operating system
- NUMA Enhancements
 - Some OS Read-only data is replicate on each RAD

OpenVMS RAS Features

Alpha

Easier serviceability, investment protection!

- RAS Features for GS80/160/320 systems:
 - CPU Hot Add
 - Replace a CPU with a faster CPU (Secondary CPUs only)

OpenVMS Security

Alpha

Expanding the OpenVMS security model!

- CDSA
 - Allows stronger encryption on OpenVMS.
- Integrated Kerberos
- Publish SYS\$ACM API
 - Allows applications to provide their own external authentication to VMS
- Publish OpenSSL API for VMS
 - 64-bit SSL support
 - 32-bit jacket for compatibility
 - SSL support for LDAP API

E-Business

Alpha

Expanding the OpenVMS eBusiness Offerings!

- DECdtm V2.0
 - Implemented the XA standard interface
 - XA Gateway and XA Veneer support
 - Ships in base O/S
- Reliable Transaction Router V4.1
- Compaq Secure Web Browser V1.0
(based upon Mozilla)

OpenVMS UNIX Portability

Alpha

Easier porting of UNIX applications to OpenVMS!

- C-RTL
 - Greater than 2 gigabyte files
 - Unix Style file name enhanced
 - Posix Root support
 - Support for 64-bit pointers in signal
- RMS File System Enhancements
 - Hard Links
 - Time of last file access
- GNV (Introduced as EAK - “Best effort” support only)

OpenVMS System Management

Alpha

- Web based System Management
 - Continued Insight Manager XE integration
- OpenVMS Management Tools:
 - Availability Manager V2.2 with switched LAN enhancements and RAD support
- Graphical Configuration Manager (GCM)
 - web-enabled
- Faster Large Memory Dump

Applications shipping with V7.3-1

Alpha

- TCP/IP Services for OpenVMS, Version 5.3
- DECnet-Plus V7.3-1
- DECnet Phase IV
- Advanced Server V7.3
- PATHWORKS V6.1

TCP/IP Services V5.3

Alpha
VAX*Enhanced Performance!*

- Available in Q2/2002
- UNIX Portability Functionality
- IMAP 4
- Kernel, NFS and other application performance enhancements
- Selected security applications
- Additional IPv6 Features
- Additional support for IPv6 programming API
- Mobile IP support

Advanced Server for OpenVMS

Alpha

- Advanced Server V7.3
 - Available now
 - Member Server functionality
 - Support for alias file names, dynamic cluster load balancing, DNS, extended character sets, Win NT printer management, and PCSI installation
 - Interoperability with Windows 2000
 - OpenVMS V7.3-1, V7.3, V7.2-2, V7.2-1 Support

OpenVMS e-Business Products

Alpha

Newest Internet Technologies for OpenVMS!

- Compaq Software Development Kit (SDK) 1.3.1, *for the Java™ platform*, on OpenVMS Alpha, Version 1.4 planned for H2/2002.
- Compaq Fast Virtual Machine (Fast VM) 1.3.1, *for the Java™ platform*, on OpenVMS Alpha, Version 1.4 planned for H2/2002
- ACMS V4.4 – Available Now!
 - Remote Manager capabilities
- Bridgeworks
 - Version 2.0a adds support for EJB components, in addition to COM and performance enhancements (Available now)
 - Version 2.1 (April, 2002)
 - Performance Enhancements
 - Version 3.0 (Q4, 2002)

OpenVMS e-Business Products

Alpha

Newest Internet Technologies for OpenVMS!

- Compaq Secure Web Server V1.2 for OpenVMS Alpha
 - Will replace Netscape FastTrack Web Server
 - Available Now!
- Compaq Secure Web Browser (CSWB)
 - Based upon Mozilla open source web browser
 - Mozilla is also the base for Netscape 6.x
 - CSWB is the supported browser for OpenVMS Alpha
 - Field test will start in Feb '02 concurrent with OpenVMS V7.3-1
 - V1.0 will ship in April/May '02

Upgrading OpenVMS Environments

System Software Upgrade Paths to V7.3-1

- Direct Upgrade Paths
 - V7.1-2 to V7.3-1
 - V7.2x to V7.3-1
 - V7.3 to V7.3-1
- Cluster Upgrade Paths
 - Cluster rolling upgrades are supported from V7.2x and V7.3.

OpenVMS Cluster Version Support

	Version 7.2x	Version 7.3x
Version 7.2x	<i>Warranted</i>	Migration
Version 7.3x	Migration	<i>Warranted</i>

OpenVMS Zukunft

OpenVMS V7.3-next

Alpha

- Expected shipment date = Q1CY2003
- Focus Areas:
 - EV7 Platform Support
 - 2 to 8 processor support initially
 - USB keyboard and mouse support
 - All existing storage and cluster interconnects will be supported
 - New PCI-X device support: Gigabit Ethernet and Fibre Channel
 - Support for Hard and Soft (Galaxy) partitions
 - No application changes are necessary
 - SMP and I/O Performance Enhancements
 - Unix Portability
 - DECwindows X11R6 support

OpenVMS V7.Next

Alpha

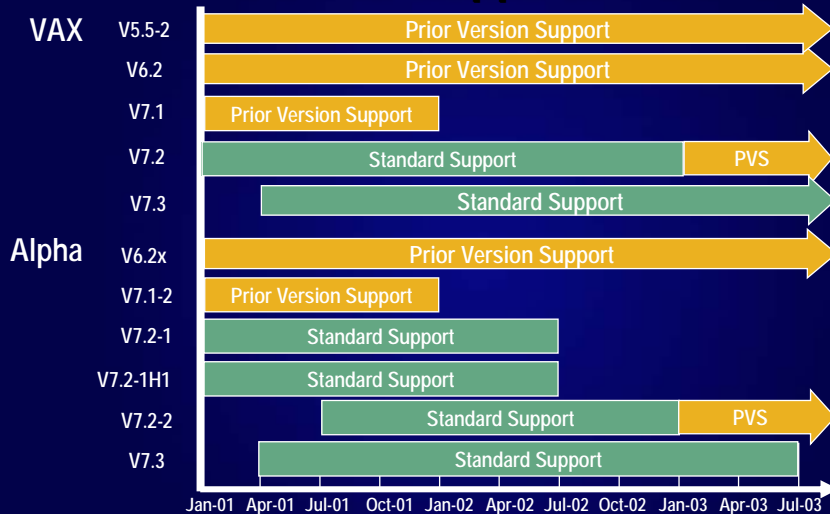
- Expected shipment date = H2CY2003
- Focus Areas:
 - Ongoing EV7 Platform Rollout Support
 - SMP and I/O Performance Enhancements
 - More UNIX Portability features

OpenVMS Vx.x



- Expected shipment date = H12004
- Candidates:
 - System & I/O Performance Enhancements
 - Cluster Interconnect Enhancements
 - Fibre/SAN enhanced support including Disaster Tolerance Enhancements
 - Continued Security Enhancements
 - Alpha Compatibility with OpenVMS Itanium™ release, including Clusters
 - More UNIX Portability features

Prior Version Support Schedule



Resources



OpenVMS Home Page

- <http://www.openvms.compaq.com>

OpenVMS Software Rollout Reports

- <http://www.openvms.compaq.com/openvms/os/swroll/index.html>
- <http://www.openvms.digital.com/openvms/os/swroll/>

Compaq OpenVMS Services Information

- http://www.openvms.compaq.com/serv_support.html

Compaq Services Prior Version Support

- http://www.compaq.com/services/software/ss_mature.html

OpenVMS Product Roadmaps

- http://www.openvms.compaq.com/openvms/roadmap/openvms_roadmaps.htm

COMPAQ