VSI OpenVMS Alpha

September 26 , 2016

Events Since 2015 Boot Camp

- How to respond to customer requests?
- **October 30, 2015:** Alpha investigation started
- **December 12, 2015:** Successful system upgrade
- **April 11, 2016:** Alpha Evaluation Kit announced
  - "Kick the tires"
  - No Layered Products
  - No documentation
  - No support
  - No updates
- Entered into new partnerships
- **September 14, 2016:** Finalized release strategy

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Goal of the VSI Alpha Release

- **IS:** Get customers to an up-to-date release of OpenVMS to make it easier to move to x86

- **IS NOT:** an "extend the legacy system" strategy

- Advantages of upgrading
  - Updated security
  - OS enhancements
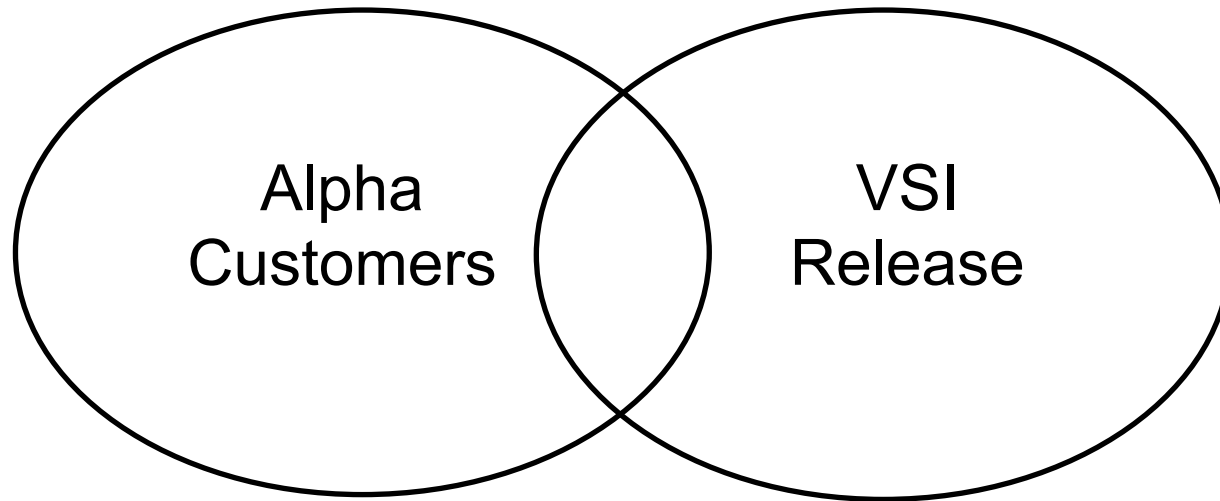 - Performance improvements
  - Newer compilers
  - Bug fixes

Release V8.4-2L1 for Alpha

- The Plan: **one, and only one**, Alpha release

- Customer demand might possibly change this but currently there are no further releases planned

- Release Contents
  - Same Layered Products as on Itanium
  - Same compilers as on Itanium (except C++ and Ada)
  - Selected platforms and I/O devices
  - TCPIP V5.7
  - ISO download only (no physical media)

- Support
  - Fully supported with three levels available
  - Updates (patch kits) as needed

Alpha Evaluation Kit

- Available to anyone at www.vmssoftware.com
  - **OpenVMS V8.4-2**
  - Original license expiration 9/30/16 (now 9/30/2017)
  - Run on any Alpha platform
  - VSI tested on DS10, DS15, DS20, ES45 and ES47
  - Must upgrade, no from-scratch installations
  - Comments to alpha@vmssoftware.com

- 253 downloads (as of 9/25/16)

- We **Do Not** Know – how many ran it

- We **Do** Know
  - Only a couple minor complaints from those who did
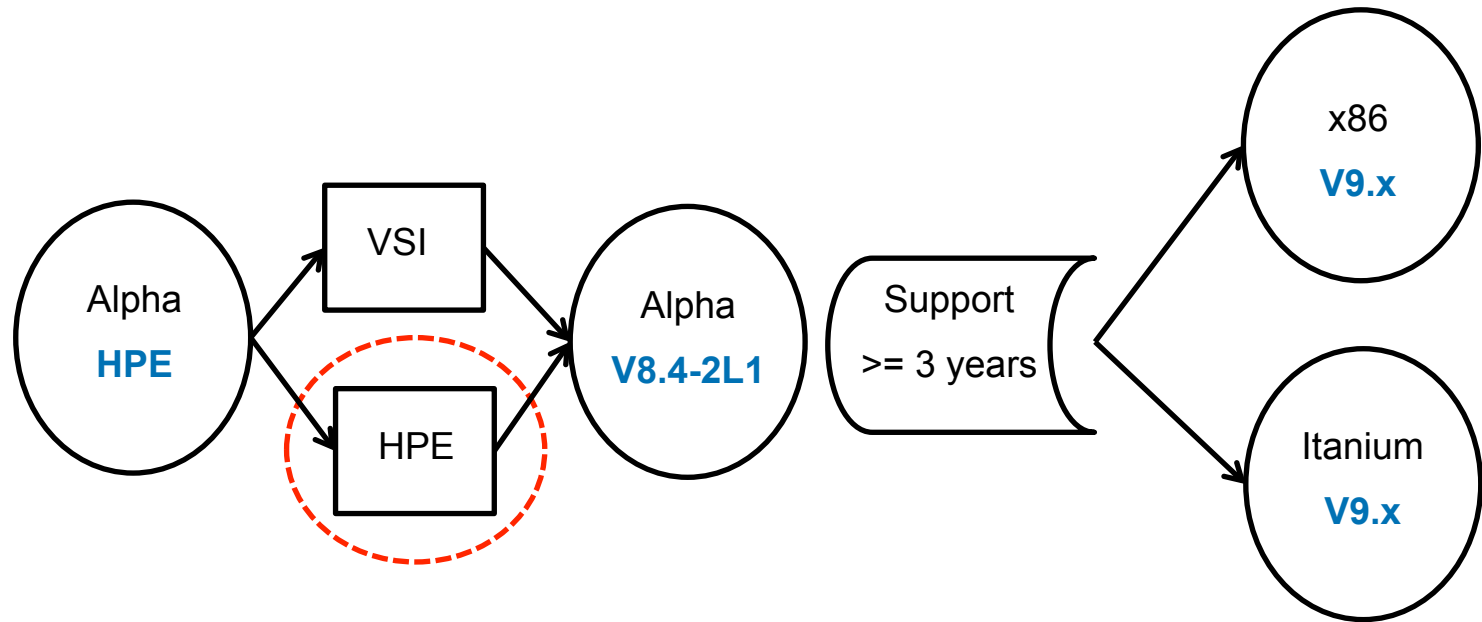 - Runs on many HW platforms

Cannot Be All Things to All People

Licensing

- <u>Support Model</u> with software licenses included
- Classes
  - Workgroup: 1-2 CPUs
  - Departmental: 4 CPUs
  - Enterprise: 8 or more CPUs
- Tiers
  - Platinum (Proactive 24x7)
  - Silver (24x7)
  - Bronze (9x5)
- All contracts grant Rights to new Minor Versions, if there are any
- Any contract of 3 or more years grants Rights to new Major Versions (Itanium and x86)

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Path to x86

Alpha
HPE

VSI

HPE

Unknown at this time

Alpha
V8.4-2L1

Support
>= 3 years

x86
V9.x

Itanium
V9.x

Schedule

- **TBD**

- Currently working on execution details
  - Final Kit contents
  - Testing (platforms and upgrade paths)
  - Field Test (scaled-down version)
  - Documentation
  - Support

- Also in the pipeline are
  - Six independent Kits (e.g. VSI TCP/IP 10.5 kit)
  - OpenVMS V8.next

vms

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vms Software

For more information, please contact us at:

alpha@vmssoftware.com

OpenVMS Rolling Roadmap

2017

2018

2019

H1 2017 - Independent Kits
- JAVA 1.8
- VSI TCP/IP 10.5
- 64b Availability Manager
- CRTL: C99 features, header updates
- Digital Signing for ISVs
- OpenSSL 1.1.x

H2 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

VSI TCP/IP 10.x
Enhanced Password Management

H2 2016 Announcements
- C++ compiler availability
- Support for Pure Storage, MSA2040, ESL G3, LTO-7, MSL6480

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 with 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.

OpenVMS Layered Products

Released	Planned

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

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