

### OpenVMS Roadmap Update, Fall 2017

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Today there are two parallel tracks for OpenVMS:

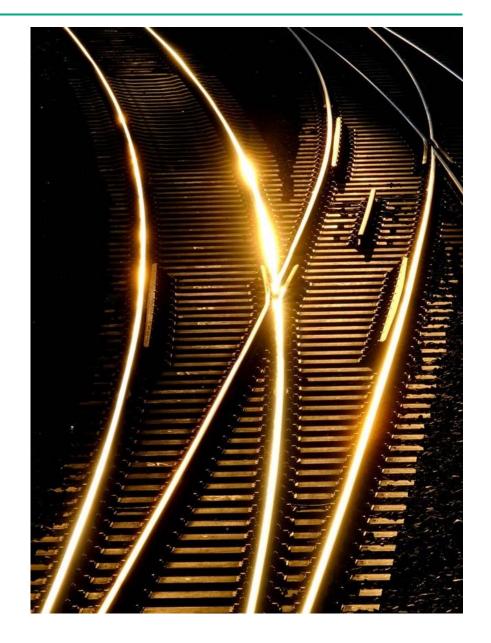
HPE and VSI





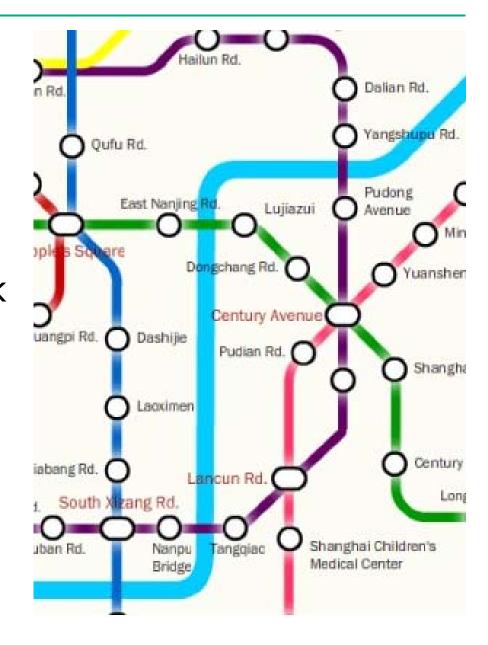


You can move from one track to another when you choose.





With a map, you can pick your destination, and know what track you need to take to get there, and where you need to switch tracks.





#### **Possible Destinations**

–HPE Integrity i4 Servers:

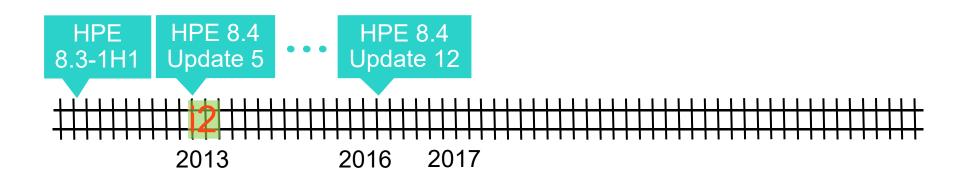
–HPE Integrity i6 Servers:

-x86 Servers:





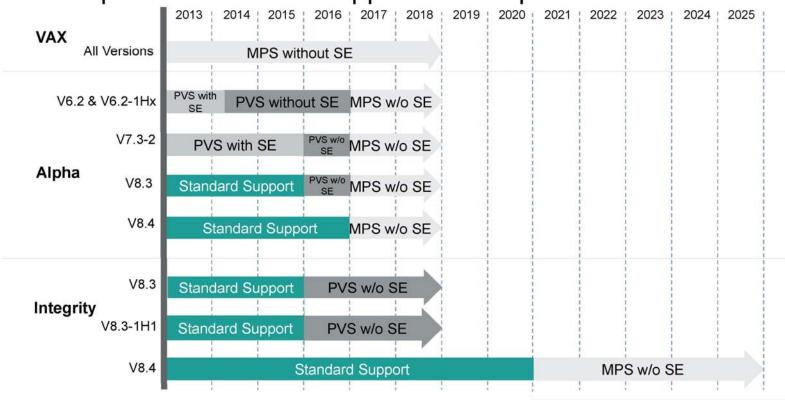






#### HPE OpenVMS Roadmap





Hewlett Packard Enterprise

MPS w/o SE	Mature Product Support Without Sustaining Engineering
PVS w/o SE	Prior Version Support Without Sustaining Engineering
PVS With SE	Prior Version Support With Sustaining Engineering



<sup>·</sup> A 24-month notification will be provided before support is ended

<sup>·</sup> For details on the PVS and MPS offers, click here

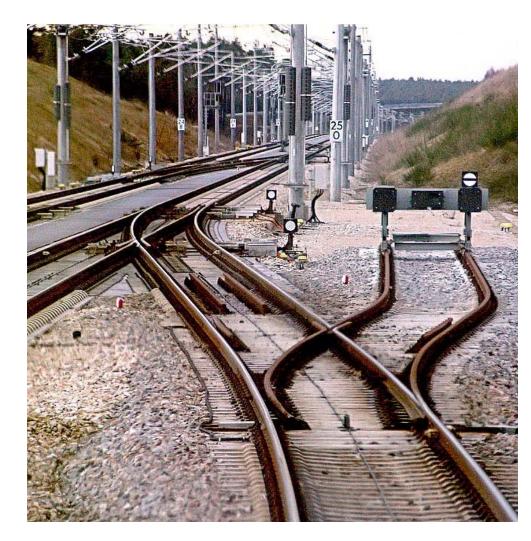
## Sustaining Engineering for HPE OpenVMS 8.4

Standard Support for HPE OpenVMS 8.4 Integrity (with Sustaining Engineering) ends December 31, 2020.

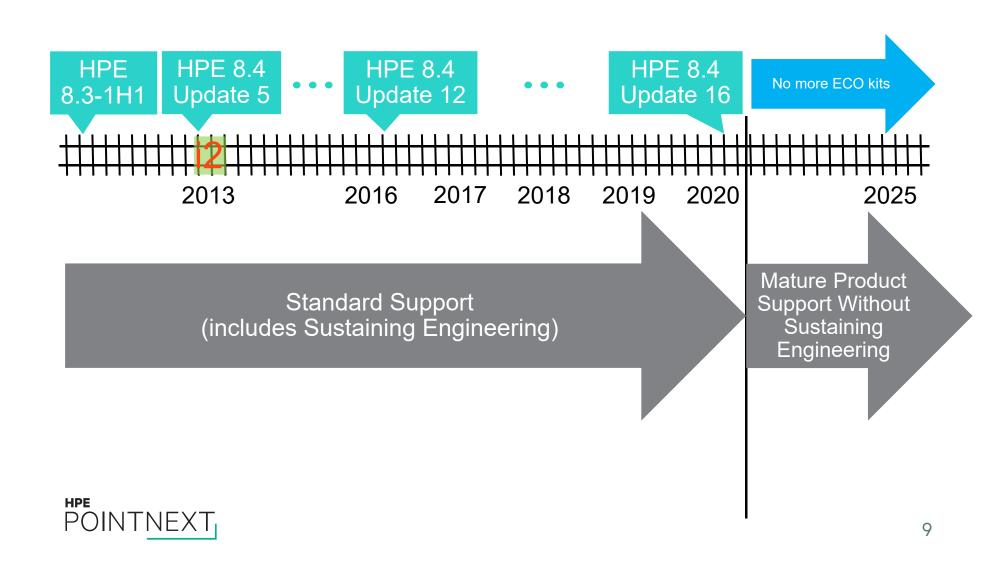
Do you need new patches beyond that point?

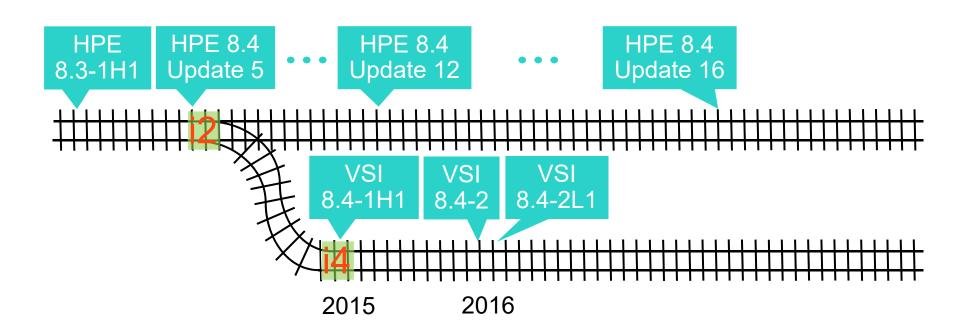
If so, you may need to plan to change tracks by that time.

If not, Mature Product Support without Sustaining Engineering will be available through at least the end of 2025.











#### **Prior VSI OpenVMS Releases**

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May 2015	March 2016	August 2016
OpenVMS V8.4-1H1	OpenVMS V8.4-2	OpenVMS V8.4-2L1
New CPU architecture  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	<ul> <li>HPE Integrity System Support</li> <li>Full BL890c Support</li> <li>64 Cores (hyperthreads off)</li> <li>1.5 TB Memory</li> <li>AUTOGEN (large memory)</li> <li>UEFI 2.3</li> <li>Network Boot for i4 Blades</li> <li>WBEM for i4</li> <li>rx7640 / rx8640</li> </ul> Performance <ul> <li>More alignment faults eliminated</li> <li>Tunable BACKUP Compression</li> </ul> Software Component Updates <ul> <li>Enterprise Directory 5.7</li> <li>CSWS (based on Apache 2.4.12)</li> <li>LDDRIVER 9.7</li> <li>Latest Time Zone Definitions</li> <li>I18N (for localized language support)</li> <li>Digital Signing 2.0</li> <li>Rebranding 2.0</li> </ul>	<ul> <li>Limited Software Release</li> <li>Updated SSL to 1.0.2h</li> <li>Updated key exchanges</li> <li>0.9.8/1.0.2 coexistence mechanism</li> <li>VSI and HPE libraries and shareable images are compatible</li> <li>0.9.8 no longer supported</li> <li>SSL-Related Capabilities</li> <li>Updated for compatibility with 1.0.2: TCP/IP, ENCRYPT, NOTARY, LDAP, ACMELDAP, Enterprise Directory, WBEM services, WBEM providers, CSWS</li> <li>Patch Kits</li> <li>Includes contents of patch kits issued through June 15, 2016</li> </ul>

### Advantages of i4 Servers over i2

Much faster clock rate:

2.53 gigahertz vs. 1.73 gigahertz

Twice the CPU cores per socket

BL860c i4 (1 blade) = BL870c i2 (2 blades)

i4 system sales through Q1 2018; upgrades through Q1 2019

Hardware support through at least Q1 2023

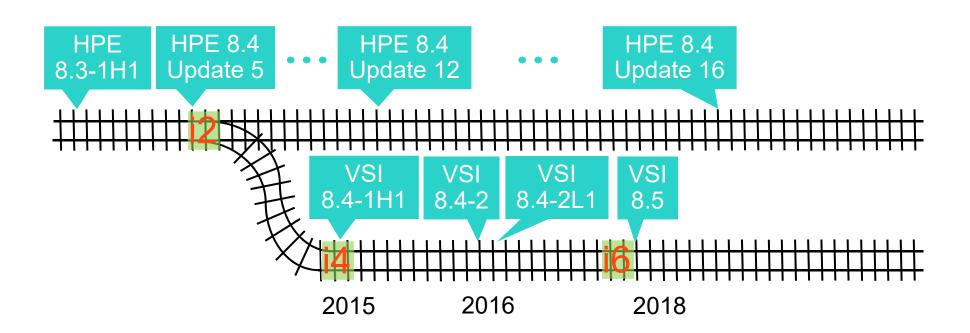


Integrity server blades BL860c i4, BL870c i4, BL890c i4



Integrity rx2800 i4 Server







## Advantages of i6 Servers over i4

Slightly faster clock rate than i4:

2.67 gigahertz vs. 2.53 gigahertz

i6 system sales from 2017 onward

Last Itanium-based platform

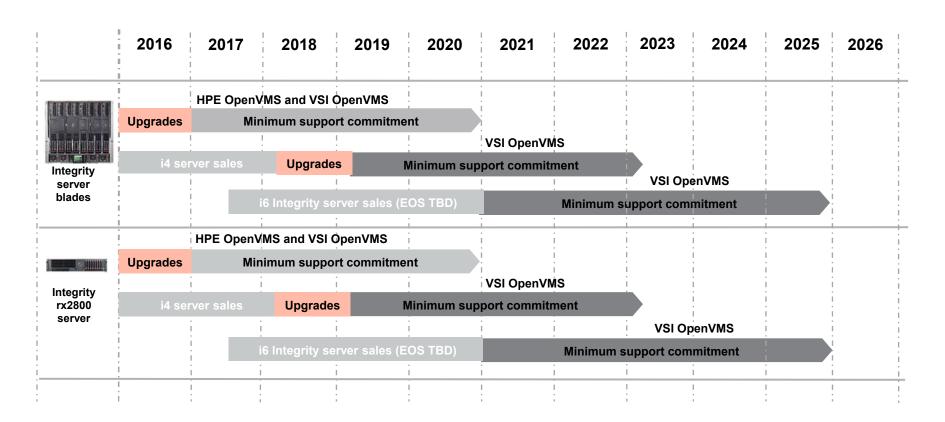
Hardware support for a minimum of 5 years after last sale



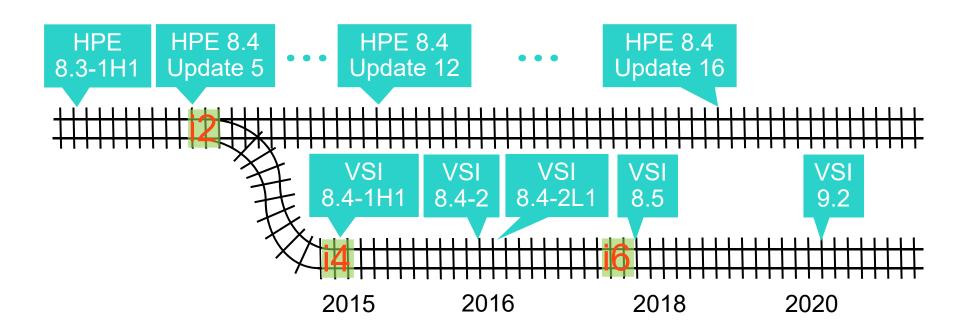




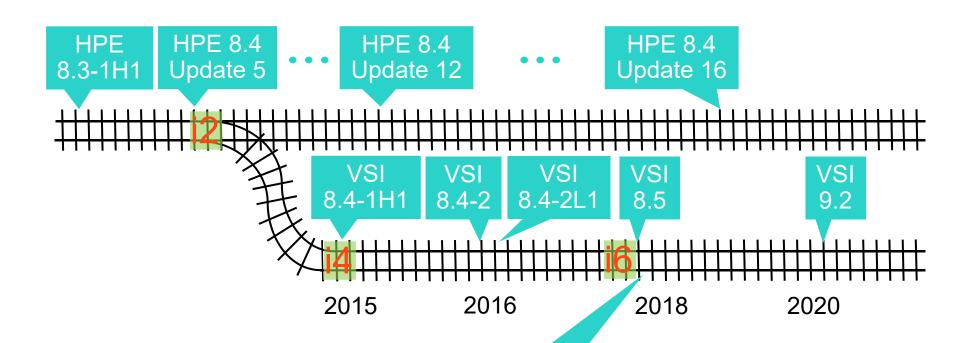
## HPE Integrity Itanium-based Servers roadmap





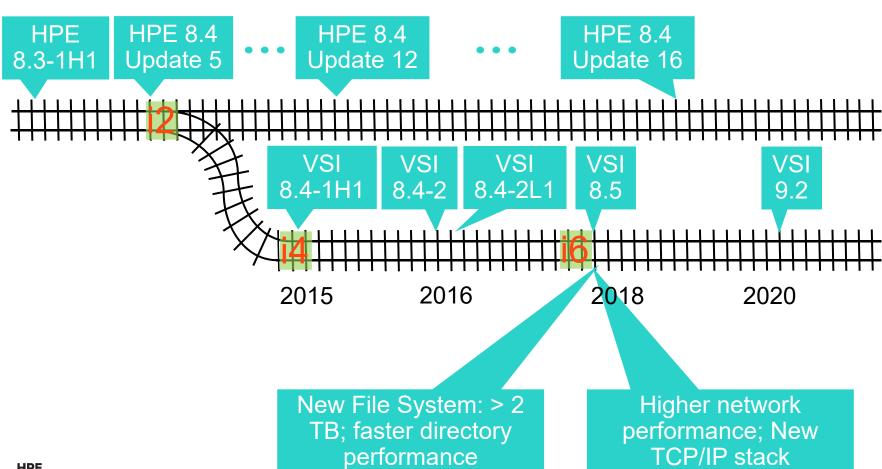






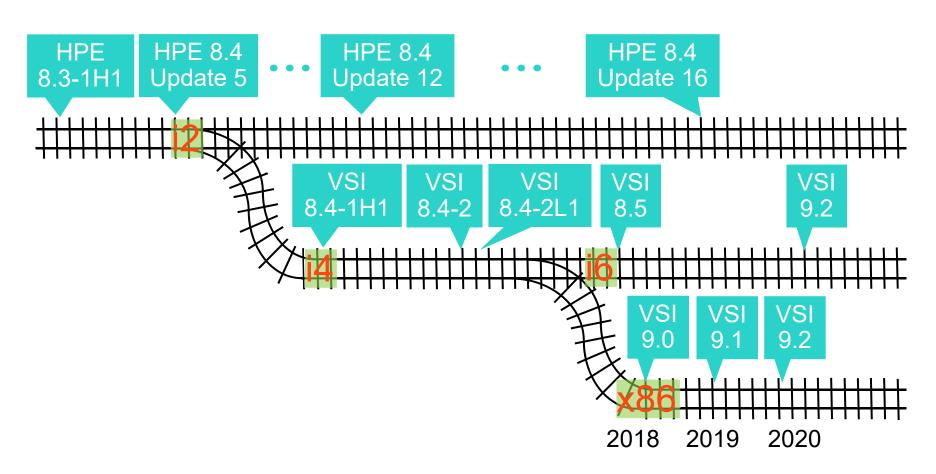
New File System: > 2 TB; faster directory performance







# OpenVMS Tracks: VSI OpenVMS on x86





#### VSI OpenVMS Rolling Roadmap

2018 2019 2020 Q1 OpenVMS V9.1 OpenVMS V9.2 · HPE Kittson-based Servers Production Release - X86-64, Itanium\* x86-64 General Early Adopters Kit LTO-8 Tape Full Production Release Available to All ISVs, Partners & Security Customers Q2 · Additional HPE & Dell Servers - Secure Boot OpenVMS V8.5 Itanium Encrypted Crash Dumps Additional I/O Devices Additional HPE & Dell Servers & I/O VSI TCP/IP 10.6 · Additional Layered Products · CRTL: C99 features, header updates **Devices** · Additional Compilers · Enhanced Application Isolation and · Up to date ACPI · Additional Open Source Applications SSL 1.1.x VMS Advanced File System

· Additional Virtual Machine guest options

Alpha to x86-64 Dynamic Binary

Translator

· Enhanced Password Management SAMBA

**JAVA 8 Update** 12Gb SAS (low cost cluster)

#### H<sub>2</sub>

#### OpenVMS V9.0 x86-64 Early Adopters Kit

- · Selected ISVs, Partners & Customers
- New Licensing
- · Selected HPE & Dell Servers
- · Graphical Boot Manager
- · Virtual Machine guest option
- VSI TCP/IP
- Compilers
- · Select Layered Products
- Cross-build tools (native thereafter)

#### Alpha V8.5 (General/Performance)

Includes TCPIP V10.6

#### **Enhanced Password Management**

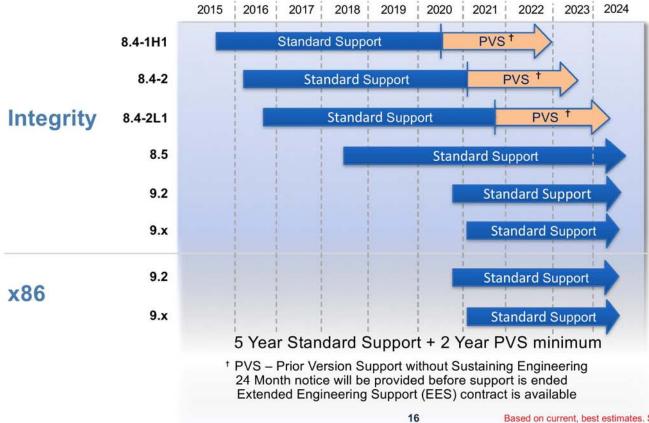
Pre-V8.5 Patch Kit: Alpha & Integrity

- Management
- Increased Network Performance
- · Stronger Password Encryption
- OpenJDK (X86-64 only)
- · Same compilers supported on Itanium plus standards updates for:
  - C
  - C++
  - FORTRAN



<sup>\*</sup> OpenVMS V9.2 will be released on Itanium after the x86-64 release followed by Alpha in 2021.

#### VSI OpenVMS Integrity & x86 Support Roadmap



### Questions?



# POINTNEXT<sub>I</sub>

## Thank you

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