



OpenVMS Rolling Roadmap

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OpenVMS Rolling Roadmap

2017

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

Security

- Enhanced Password Management

H2 2016 Announcements

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

2018

OpenVMS V9.0

Itanium & x86-64

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

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

2019

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.

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Research Areas

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

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 (05/13/15)
- DECnet Phase V (03/31/16)
- DECram (05/13/15)
- DECwindows Motif (03/31/16)
- DCE (runtime) (05/13/15)
- ENCRYPT (08/31/16)
- Enterprise Directory (08/31/16)
- 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 (05/13/15)
- 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 (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)

Planned

BOE Components:

- JVMS (09/26/16)
 - Japanese OpenVMS
 - Japanese DECwindows Motif
 - Japanese DCPS
 - Japanese FMS dev, runtime
 - Japanese DECforms dev, runtime

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
- Ingres
- MariaDB
- PostgreSQL
- 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

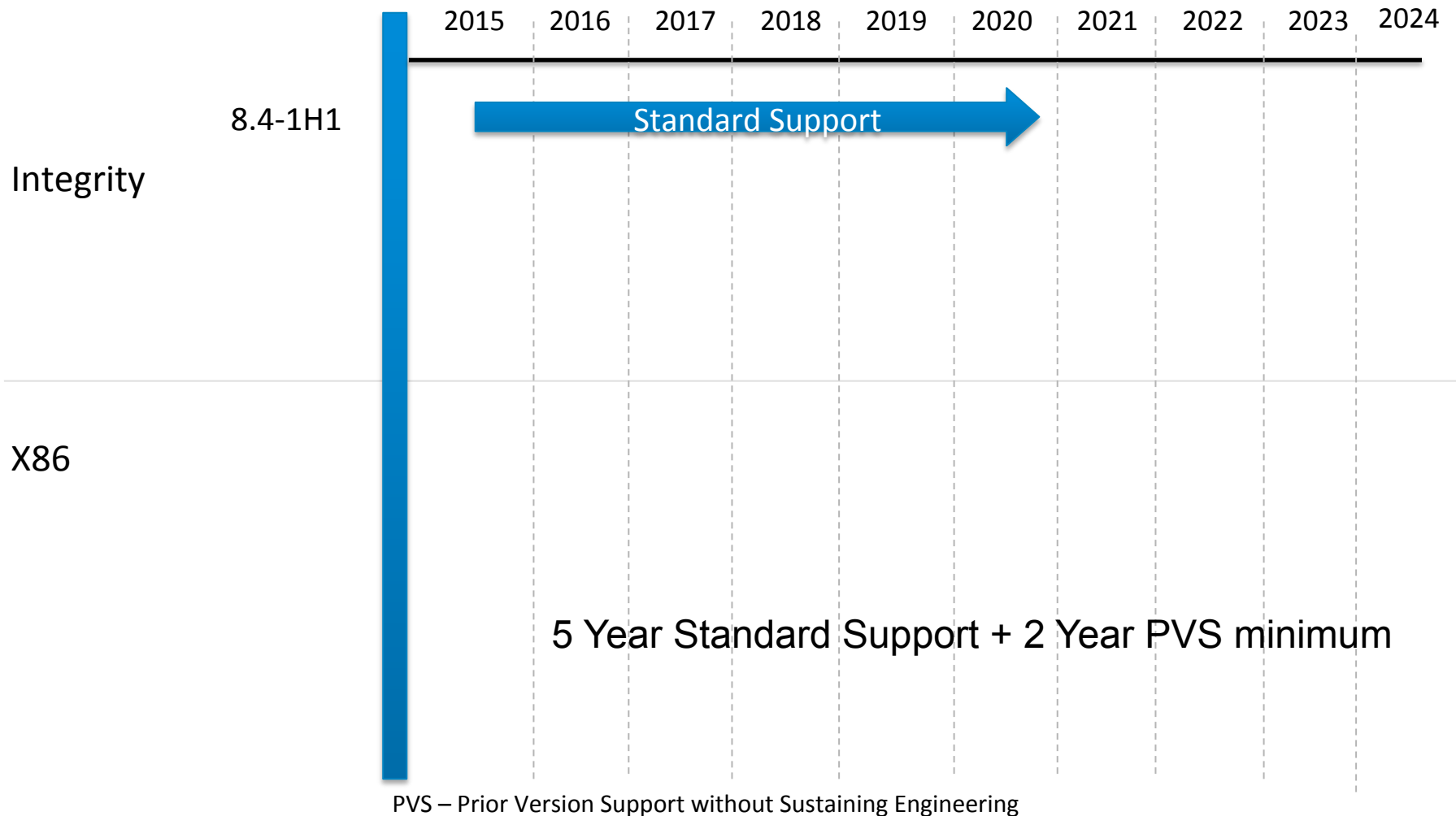
- Updated for compatibility with 1.0.2: TCP/IP, ENCRYPT, NOTARY, LDAP, ACMELDAP, Enterprise Directory, WBEM services, WBEM providers, CSWS

Patch Kits

- Includes contents of patch kits issued through June 15, 2016

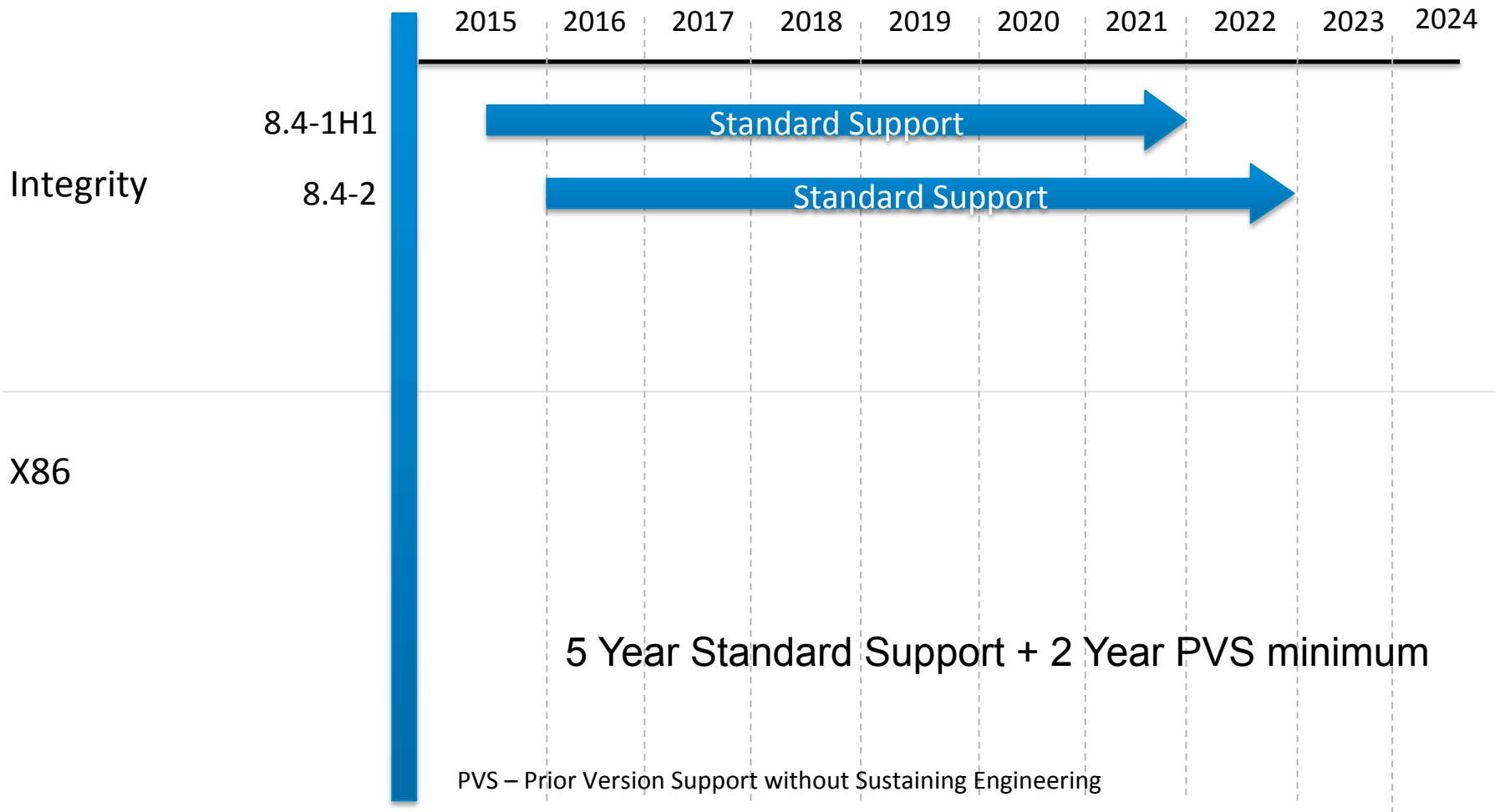
VSI OpenVMS Support Roadmap

VSI OpenVMS Service Roadmap



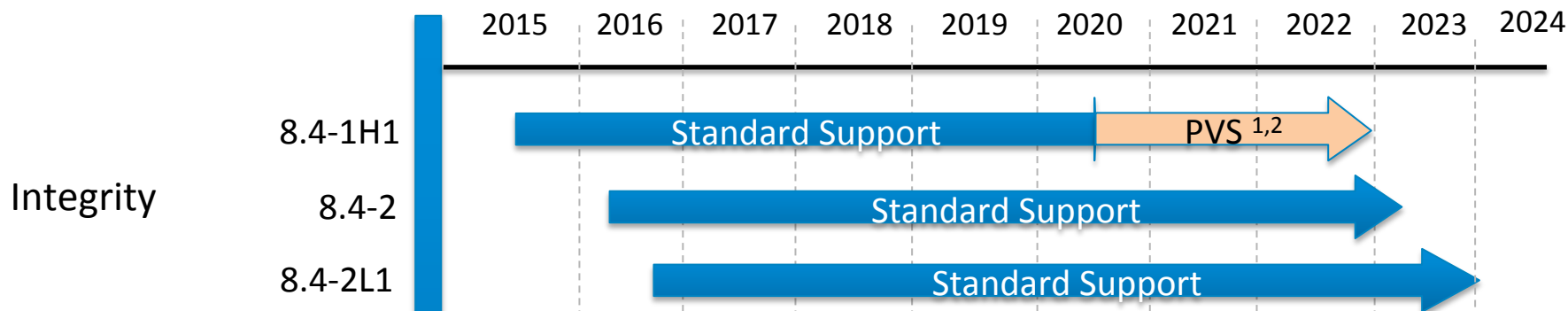
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VSI OpenVMS Service Roadmap



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VSI OpenVMS Service Roadmap



5 Year Standard Support + 2 Year PVS minimum

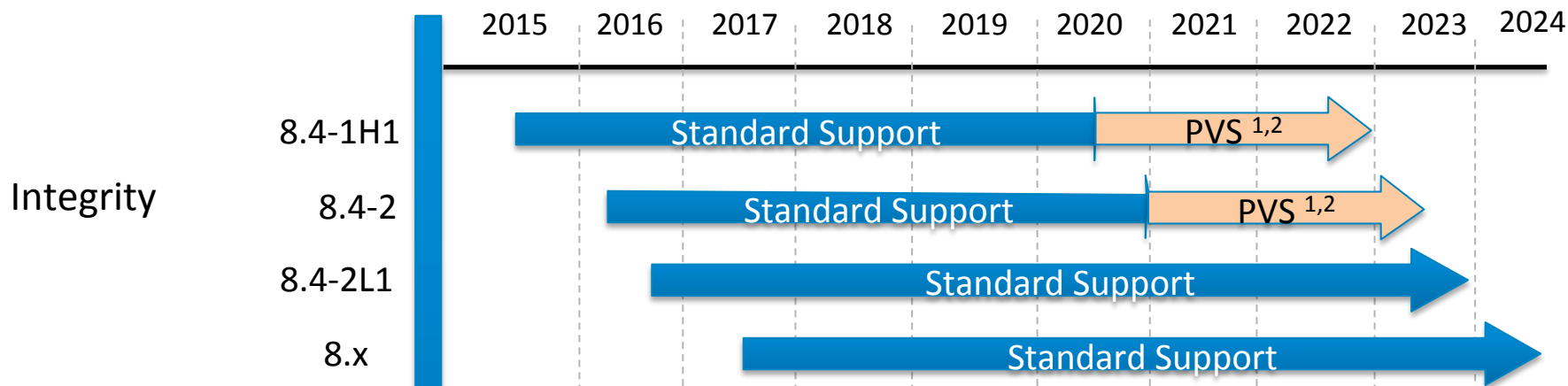
PVS – Prior Version Support without Sustaining Engineering

¹ 24 Month notice will be provided before support is ended

² Extended Engineering Support (EES) contract is available

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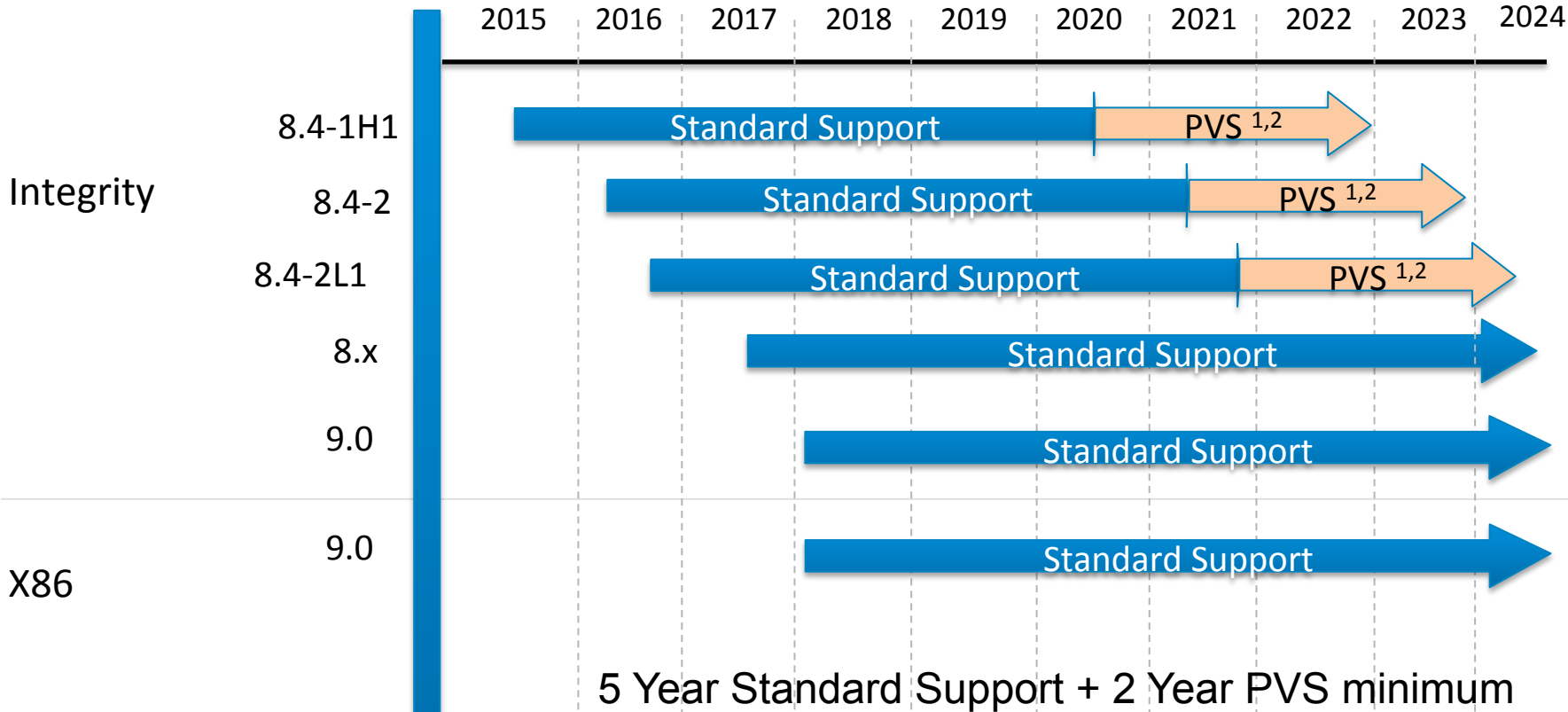
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