



HP OpenVMS Rolling Roadmaps

These roadmaps are provided to you solely for your convenience and are updated approximately every 3 months. While it contains our current plans, all information in the roadmaps is subject to change without notice. We don't warrant that we'll introduce any product or feature discussed in the roadmap at any time, nor that the information is accurate.

May 2006





HP Systems Roadmaps



Moving to 3 leadership product lines – built on 2 industry standard architectures

Current

HP
NonStop

HP
Integrity

HP 9000 /
e3000

HP
AlphaServer

HP
ProLiant

Enabling larger investment
in value-add innovation

Future

Industry Standard

HP NonStop
(Itanium based)
'05

HP Integrity
(Itanium based)

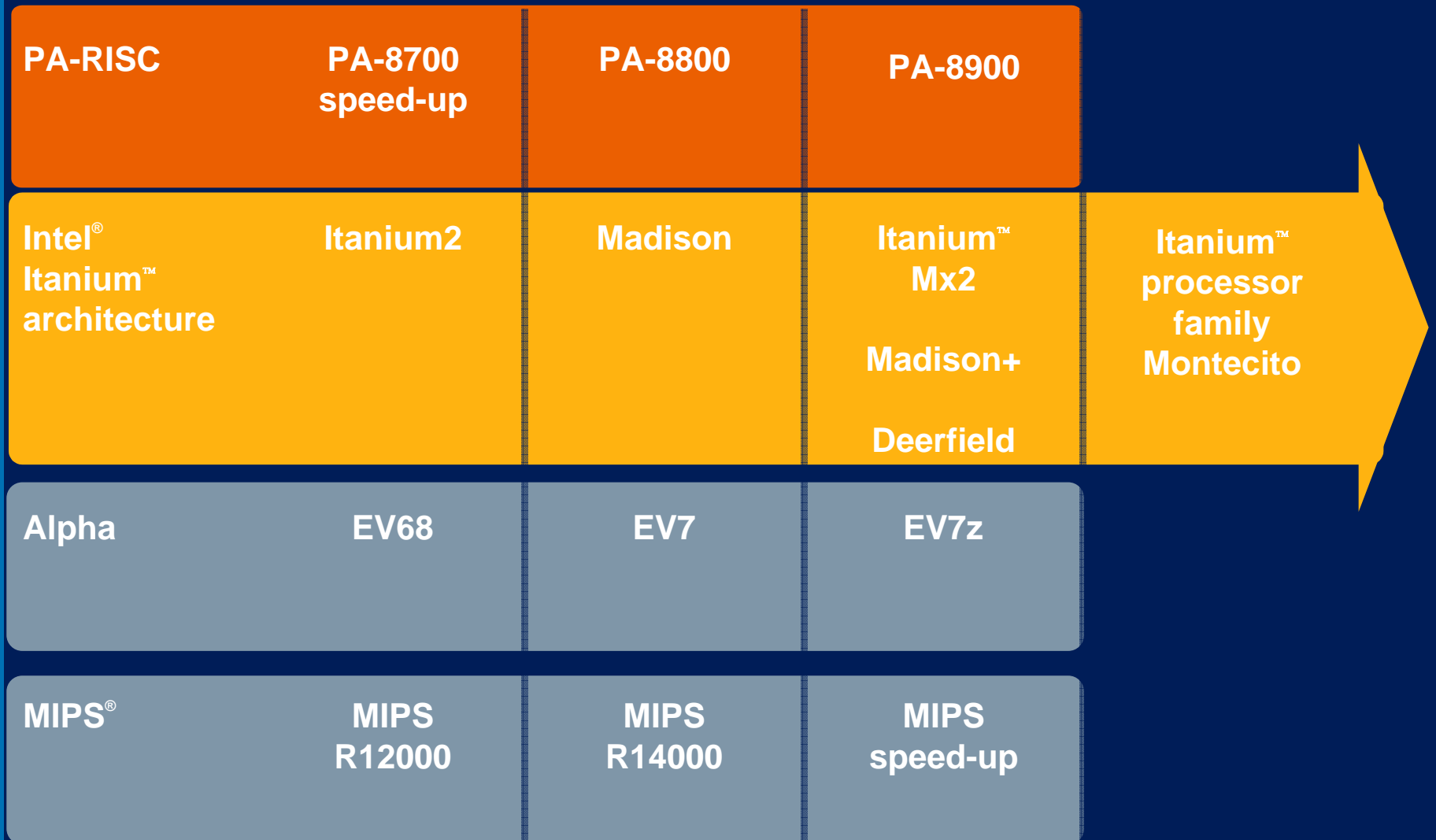
HP ProLiant
(IA-32 based)

Common Technologies

- Management
- Virtualization
- HA
- Storage
- Clustering

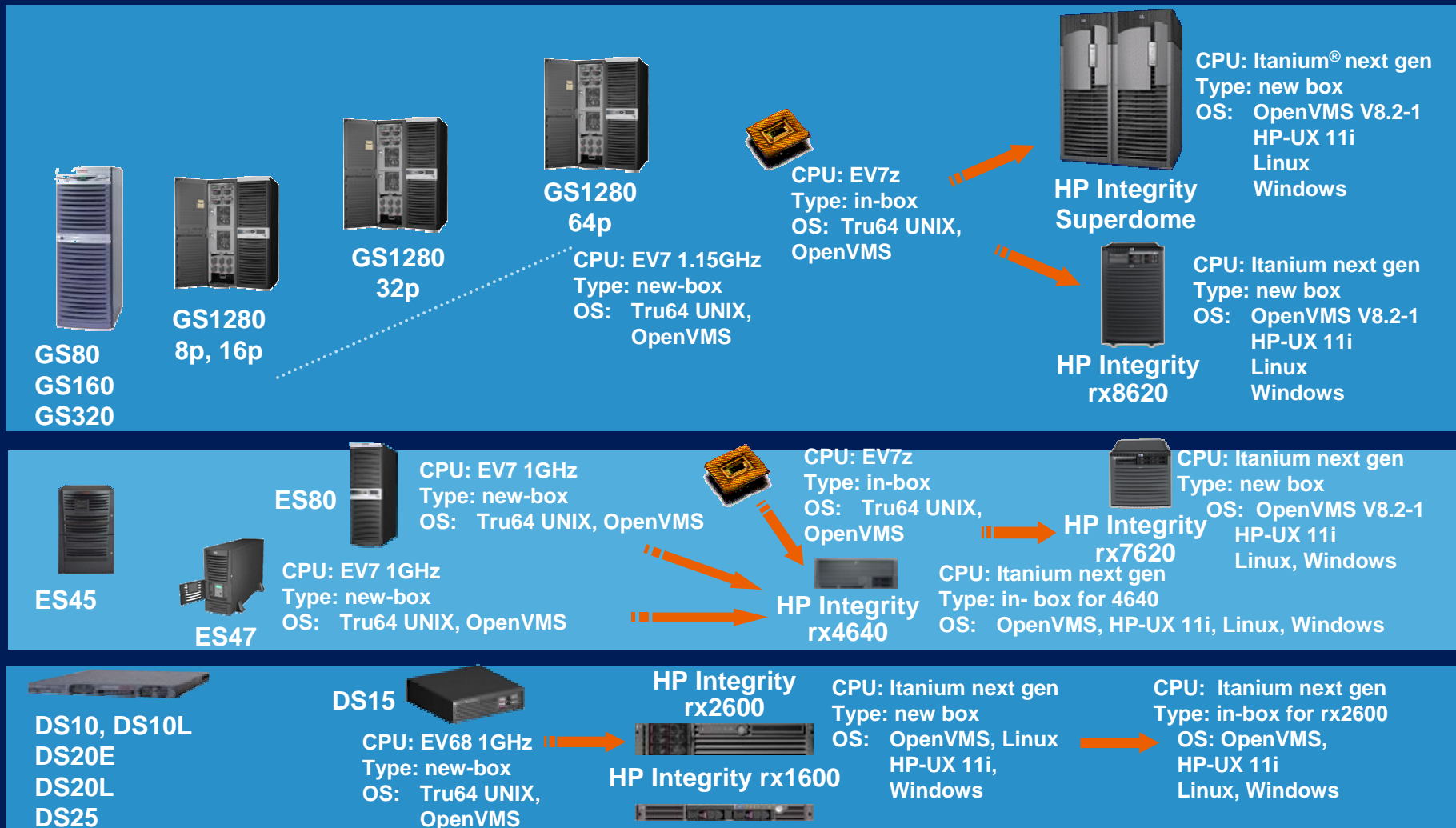


HP's multi investment strategy allows for phased evolution to Integrity servers



HP AlphaServer Evolution

Sales until 2006, with support at least through 2011



HP AlphaServer Roadmap

Last System order date
October 2006

Last System ship date
December 2006



GS1280



ES80/ES47

ES45



DS25



DS15



2005				2006				2007			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
JanMar	AprJun	JulSep	OctDec	JanMar	AprJun	JulSep	OctDec	JanMar	AprJun	JulSep	OctDec
EV7 M8/M16/M32/M64 1.3/1.15 GHz				E n d o f S a l e s				E n d o f S a l e s			
ES80 EV7 1.15/1.0 GHz M2/M4/M6/M8											
ES47 EV7 1.15/1.0GHz M2/M4/Tower											
ES45 EV68 1.25GHz											
DS25 EV68 1GHz											
DS15 EV68 1GHz				E n d o f S a l e s				E n d o f S a l e s			
Options: CPU MEMORY IO Storage Network											

Support at least through 2011



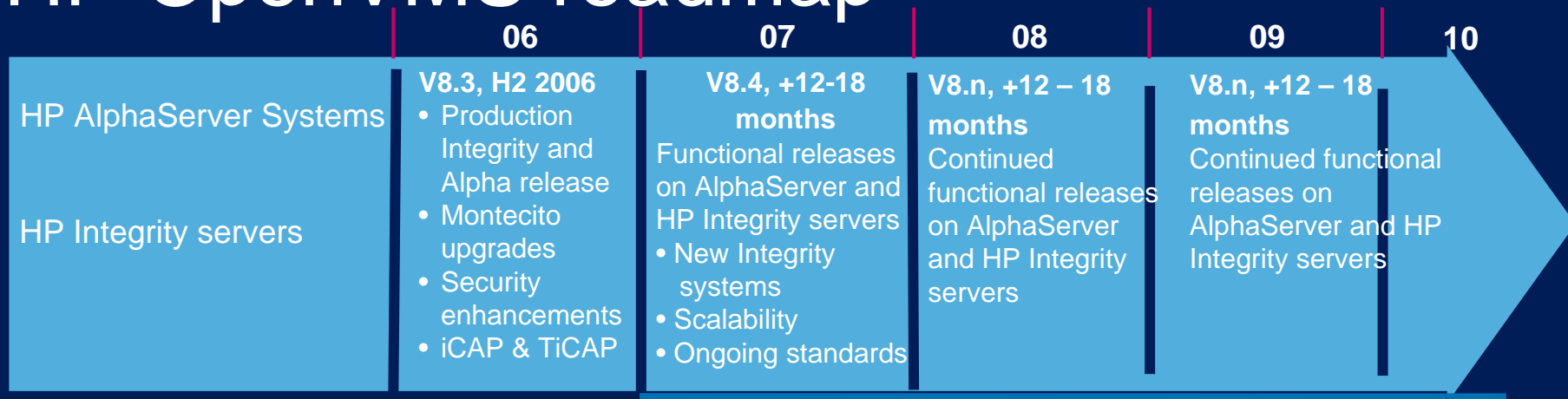
HP OpenVMS Operating System for Integrity servers, AlphaServers and VAX

- OpenVMS Releases
- OpenVMS on Integrity Servers
- UNIX Portability
- Clusters
- Storage
- LAN
- Security

Note: Bright green shaded product boxes means product is already available



HP OpenVMS roadmap



Continued enhancements, sales of AlphaServer systems at least until 2006, with support at least until 2011
Integrity Server support:

- Support for new Montecito platforms plus upgrades for rx2620 and rx4640 supported in OpenVMS V8.3
- Support for Next Generation HP Blade Server with OpenVMS in H2 2007

• Focus areas:

- Virtualization: Global Workload Manager, Pay Per Use, iCAP, TiCAP
- OpenView support for OpenVMS: Network Node Manager, Data Protector, Storage Area Manager, OVO Agent available today; adding Performance Agent, database SPI, upgrade to OVO v8, Storage Essentials
- Continued enhancements in performance and scaling, disaster tolerance, security and standards
- Support for current and next generation storage architectures
- Continued J2EE and .Net support
- Mixed Alpha and Integrity cluster support with shared fibre channel storage today

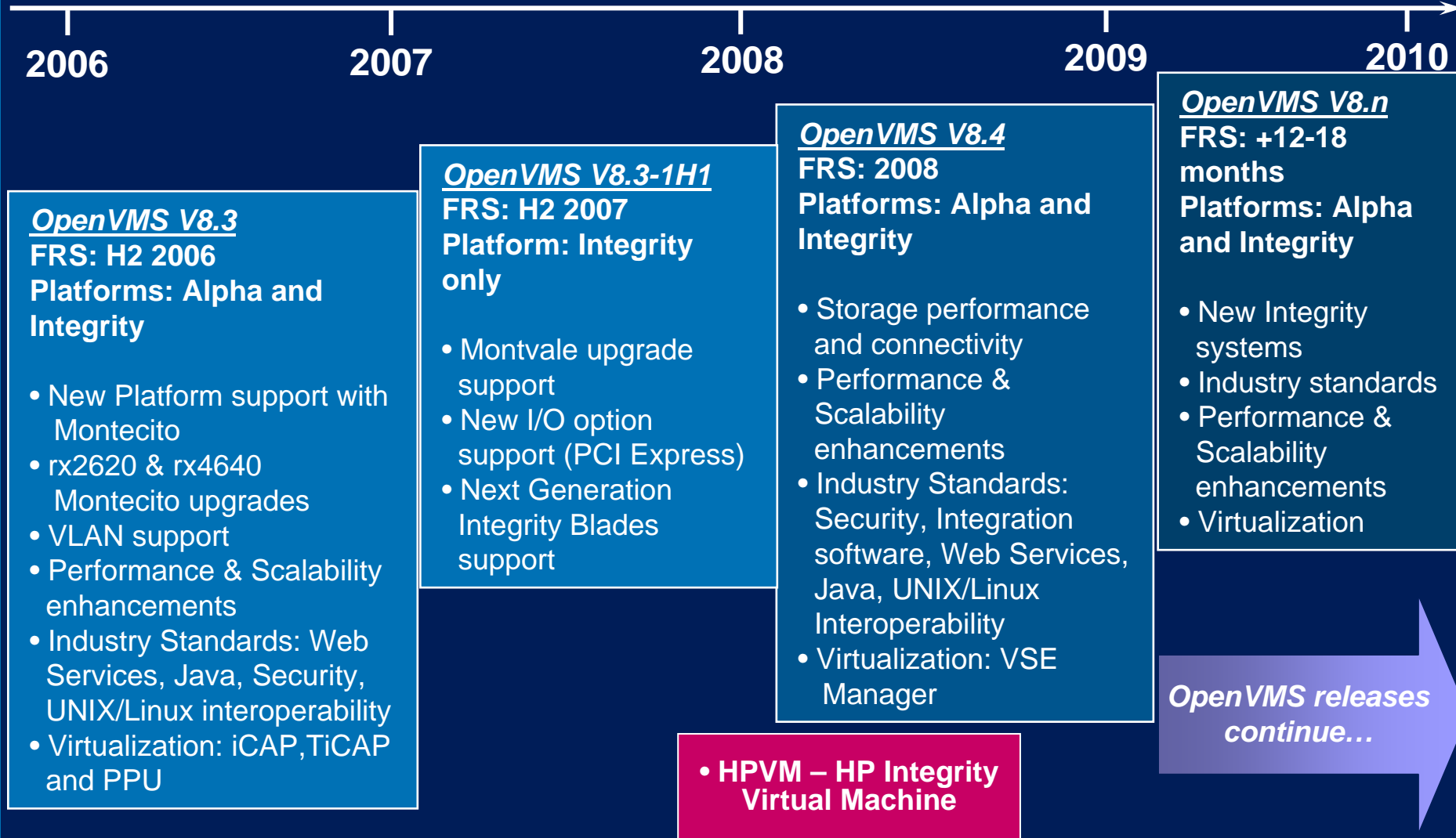
Services

- Full set of tools/services to support ISVs and customer transition to HP Integrity servers
- Investment protection through Alpha RetainTrust Program

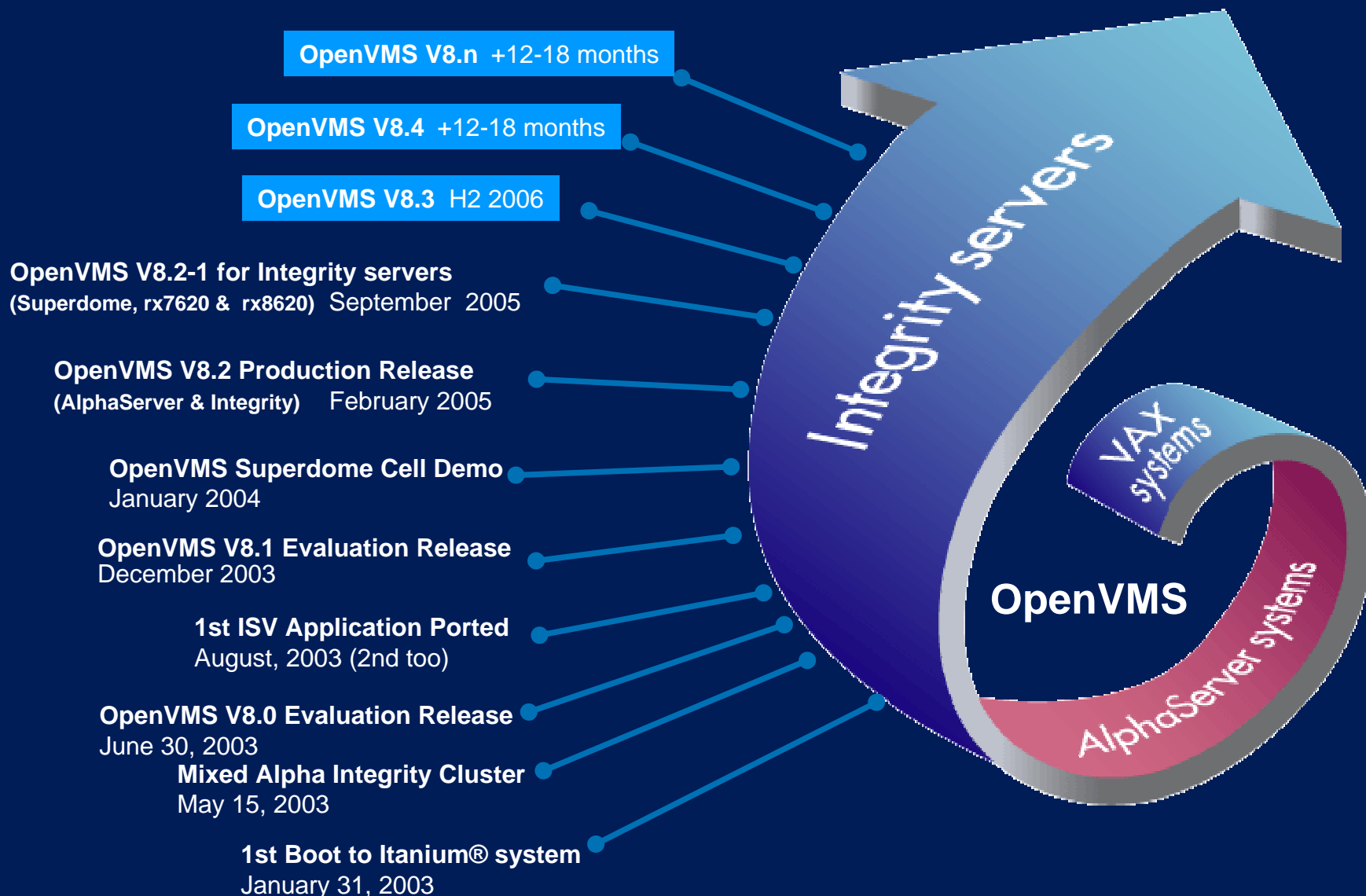
ISV support

- Nearly 1,000 applications committed for porting to OpenVMS for Integrity servers
- FastTrack program to assist with ISV support

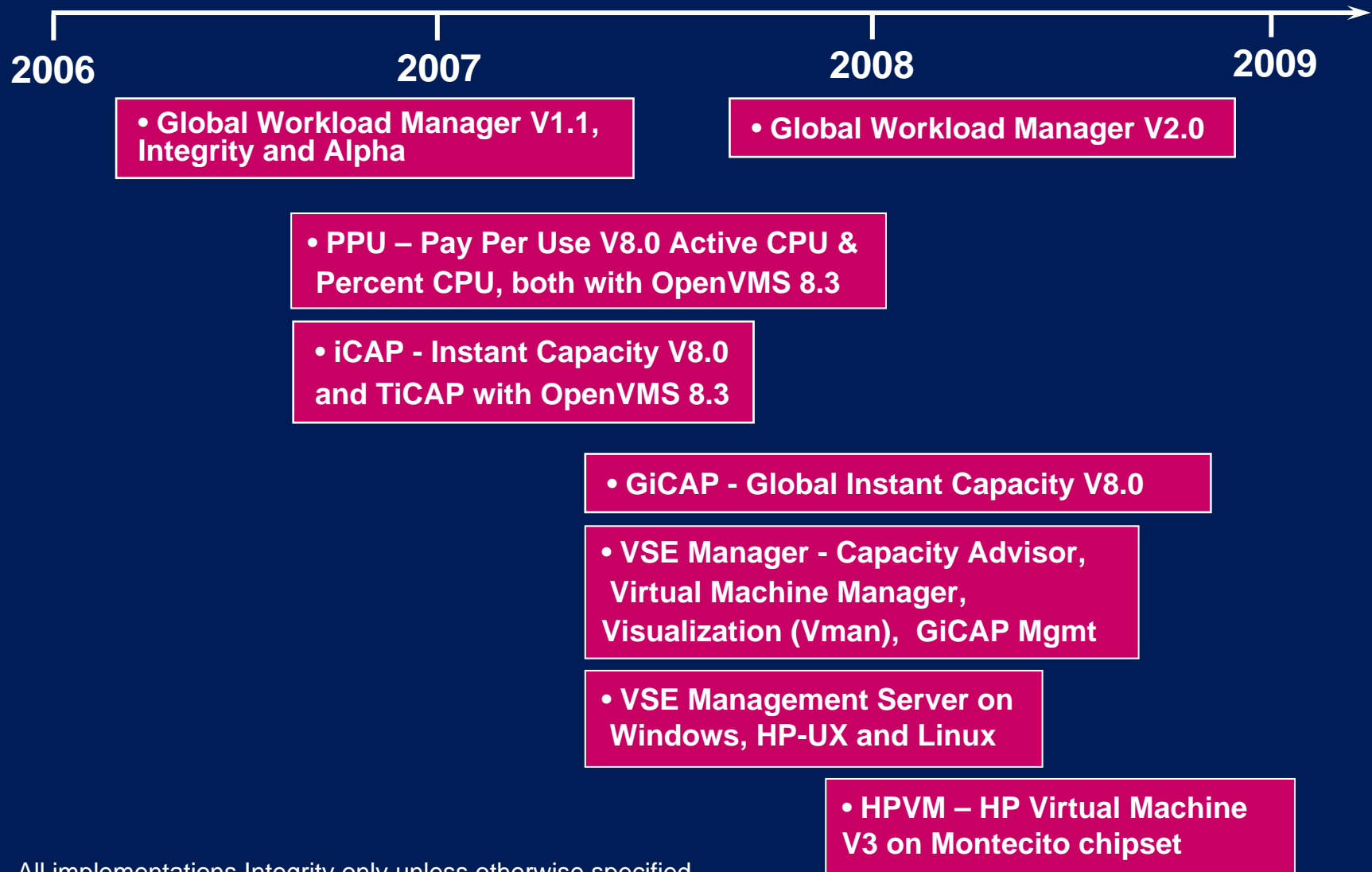
HP OpenVMS Operating System Rolling Roadmap



HP OpenVMS – The Road to Integrity



OpenVMS *Virtual Server Environment* Virtualization Roadmap



All implementations Integrity only unless otherwise specified

OpenVMS Cluster Roadmap

2006

2007

2008

2009

2010

V8.2-1 (Integrity Only) – Improved Cluster Support

- Full 96 node mixed Alpha/Integrity server cluster
- 2-node Shared SCSI cluster support w/MSA30MI (Multi-initiator) shelf

V8.3 – Improved Mixed-Architecture Alpha/Integrity Clusters

- Integrity Server Satellite Boot Support

Disaster Tolerant (DT) Cluster Interconnect

- Qualify “FC to IP” bridge technology
- Share Storage and SCSI traffic over single protocol path

Post V8.3 – Cluster Interconnect Update

- SCSI Traffic over TCP/IP Protocol

New Cluster Interconnect (Post V8.3)

- Investigation of Next-generation Low-Latency Interconnect (RDMA-based)
(Integrity Servers Only)

OpenVMS Cluster Support Matrix

		AlphaServer Releases		
		V7.3-2	V8.2	V8.3
Integrity server Releases	V8.2	Warranted	Warranted	Migration
	V8.2-1	Warranted	Warranted	Migration
	V8.3	Migration	Migration	Warranted

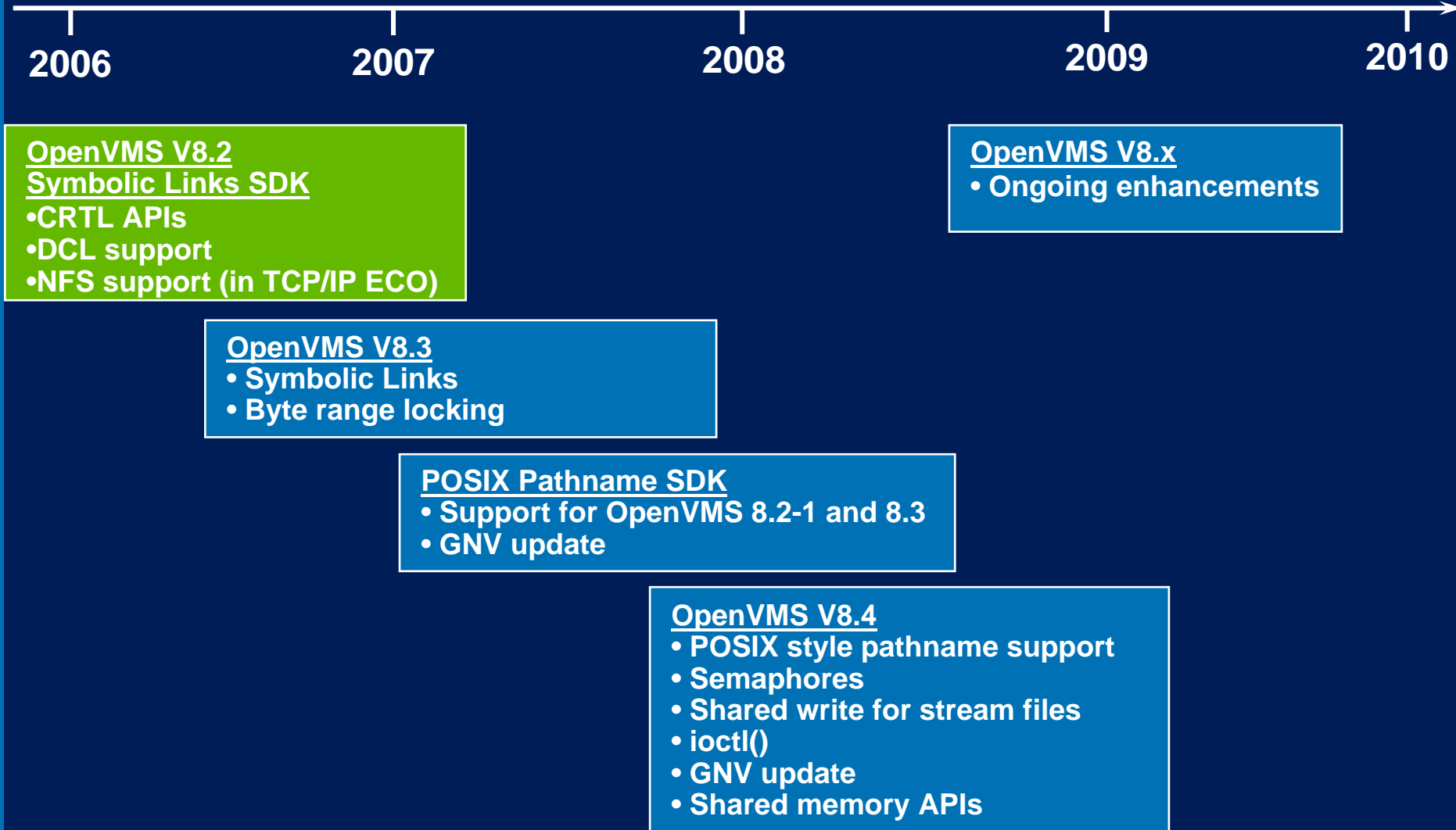
Notes:

- Same platform/version pairings always warranted
- Alpha V7.3-2 and V8.2 are Warranted Together
- Alpha V7.3-2 goes into Prior Version Support 31-Dec-2006
- Integrity V8.2 goes EOSL 31-Dec-2006

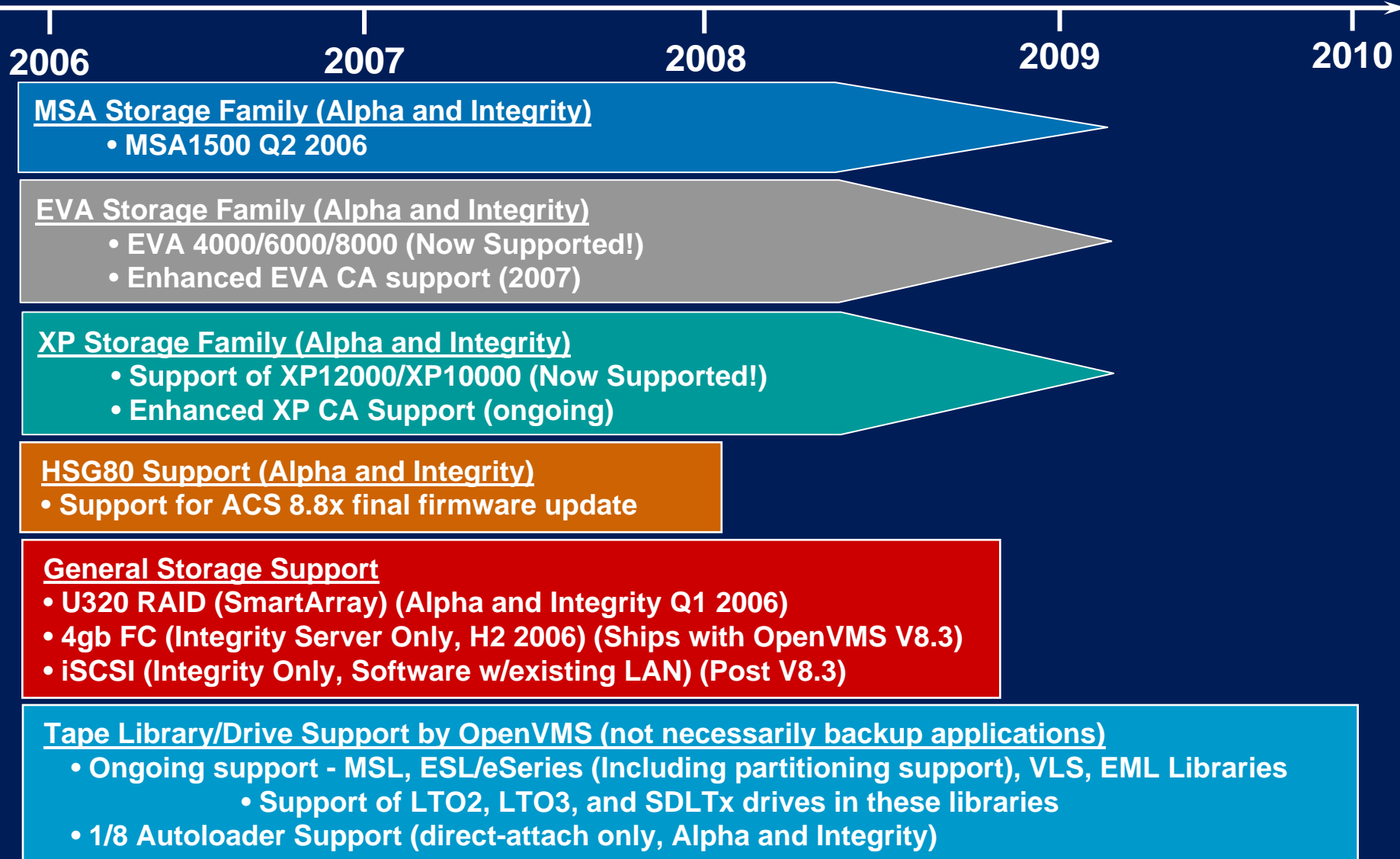
		AlphaServer Releases		
		V7.3-2	V8.2	V8.3
VAX Release	V7.3	Warranted	Warranted	Warranted

Note: VAX and Integrity Servers can exist in the same cluster ONLY for temporary migration purposes

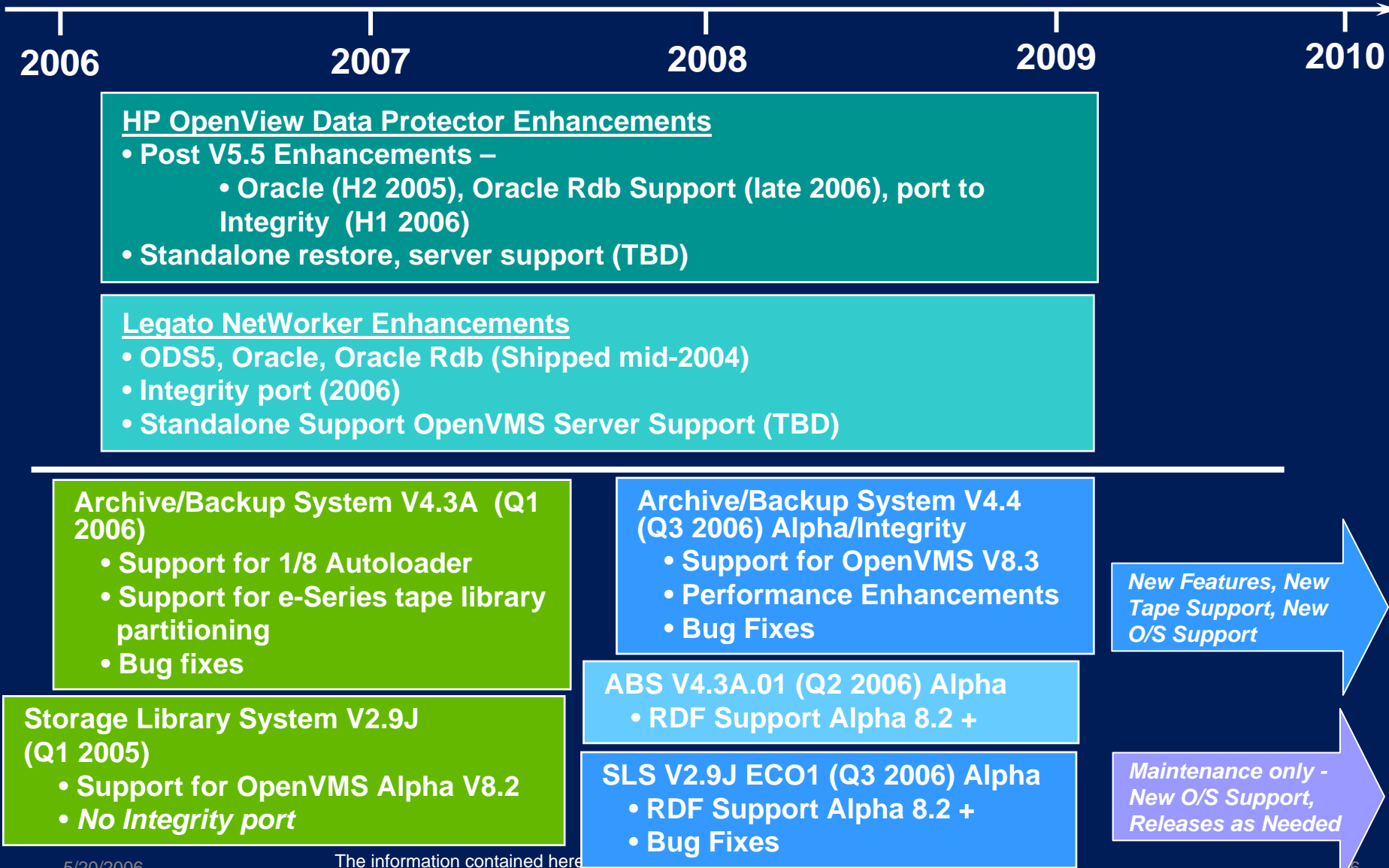
UNIX Portability Roadmap



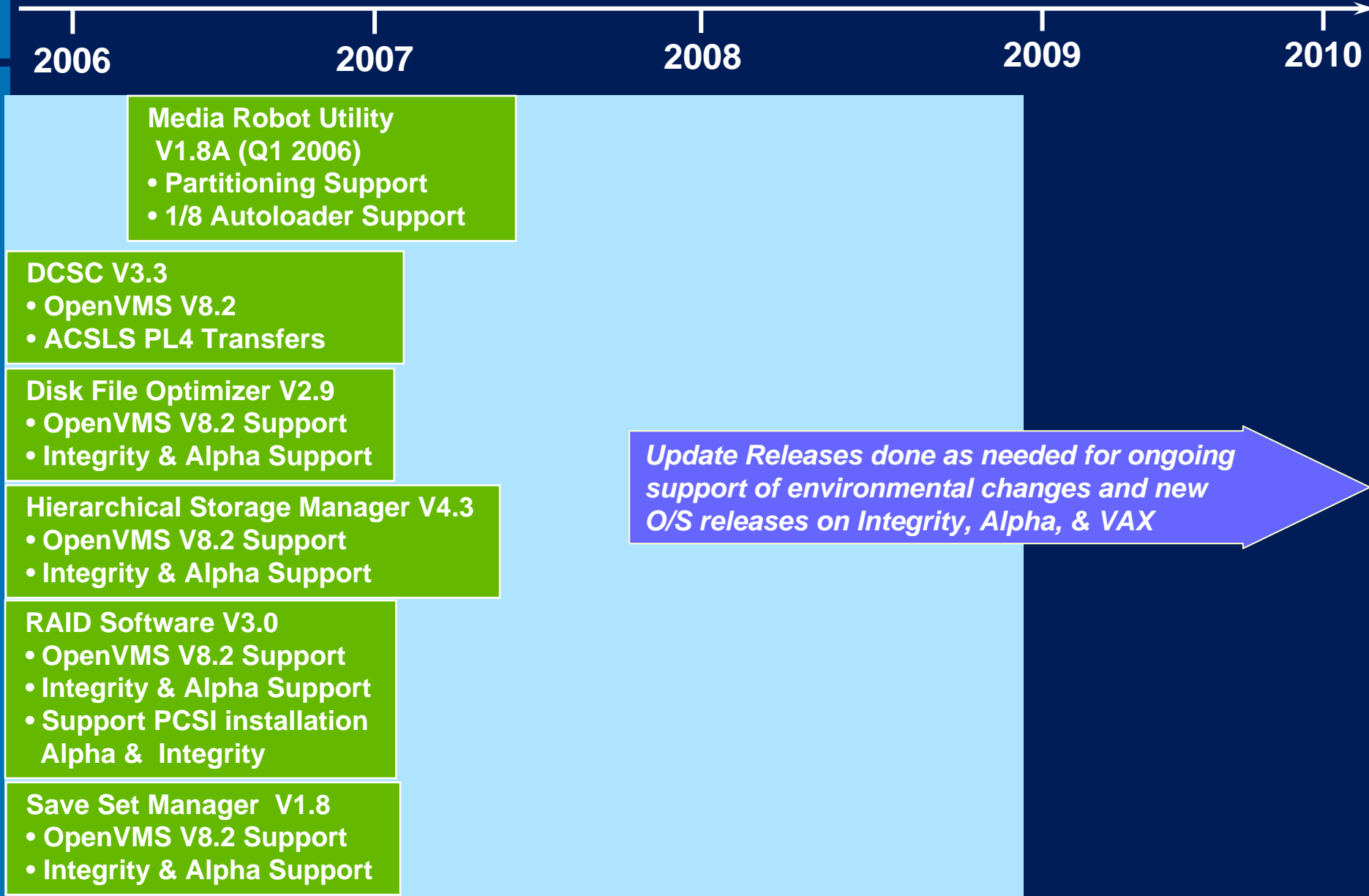
OpenVMS Storage HW Roadmap



OpenVMS Enterprise Backup Solutions Roadmap



OpenVMS Storage SW Roadmap



OpenVMS LAN HW Roadmap

2006

2007

2008

2009

2010

OpenVMS V8.3

- Integrity Network Boot support
- VLAN support
- 10 Gigabit NIC support (Integrity Servers only)

Post OpenVMS V8.3:

- RNIC Support

OpenVMS Security Roadmap

2006

2007

2008

2009

2010

OpenVMS V8.3

- Production Quality ACME Login with LDAP & Kerberos Agents
- CDSA/Secure Delivery
- Encrypt for OpenVMS
- Integration with AES support
- Kerberos & SSL version updates
- Kerberized SSH

Post OpenVMS V8.3: (Futures)

- PKCS11
- IPSEC

Open Source Security Tools

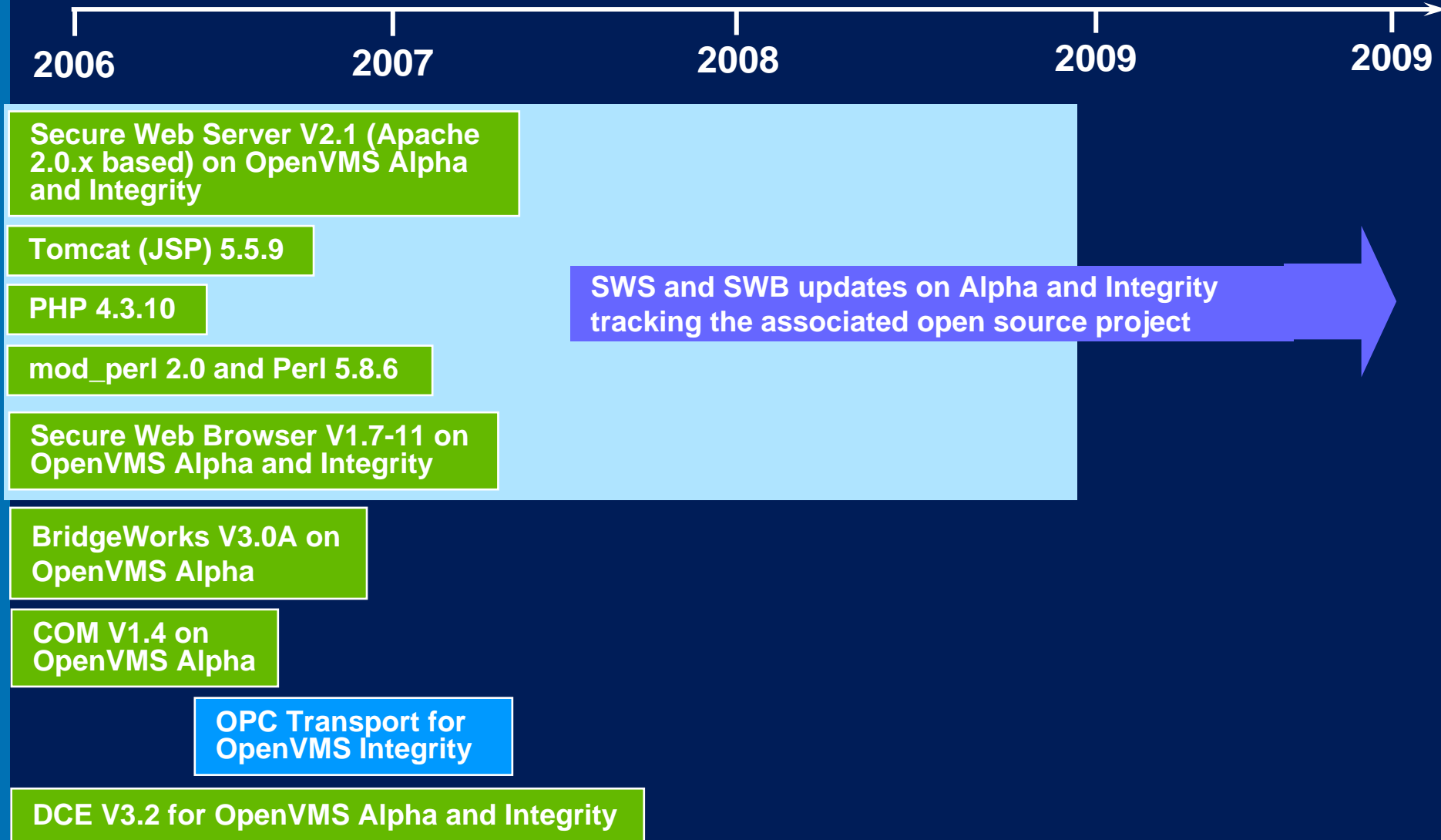
- SSLDump
- SNORT for Network Intrusion Detection
- GNV Update



OpenVMS eBusiness and Integration Technologies

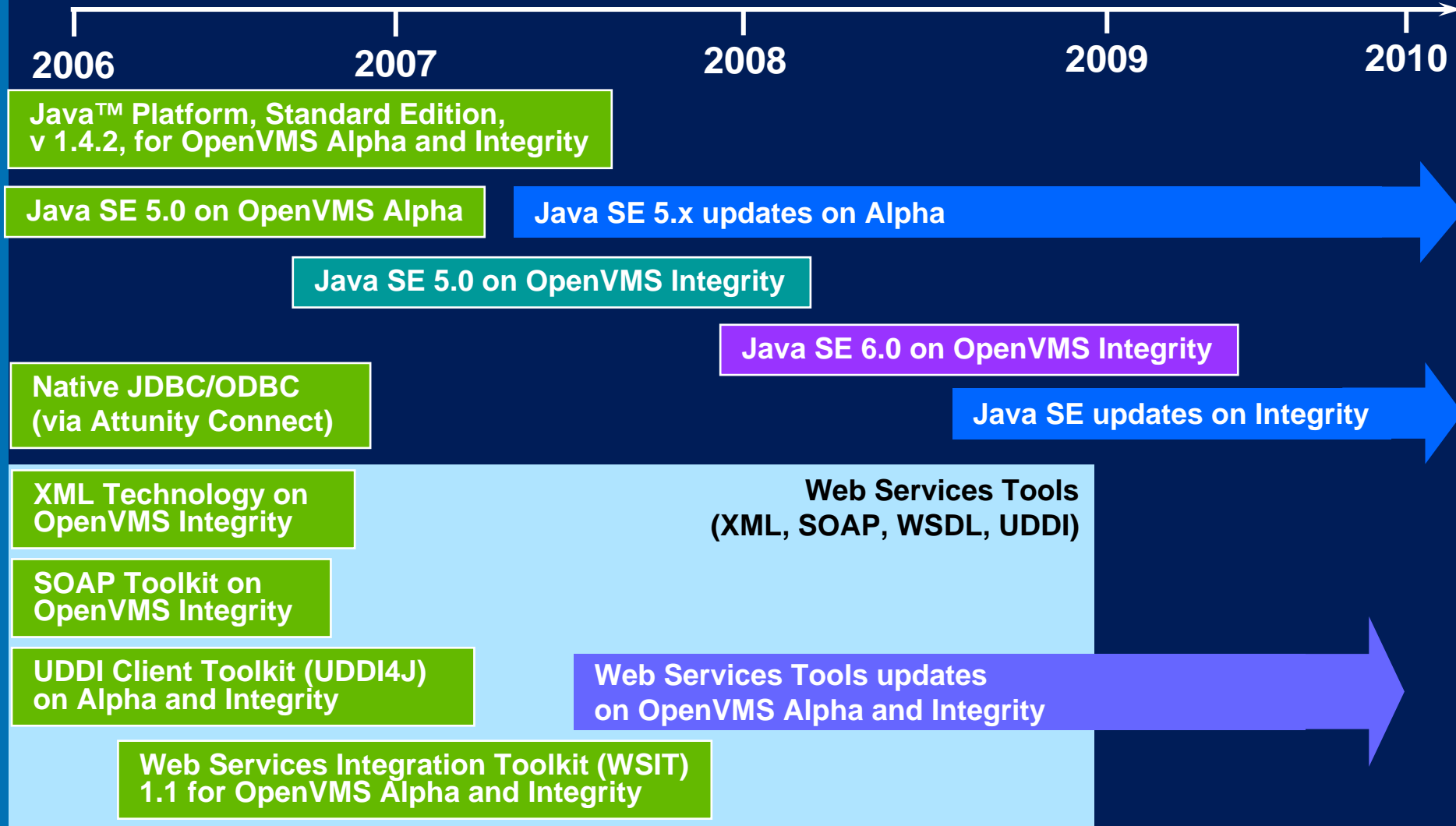


OpenVMS eBusiness and Integration Technologies

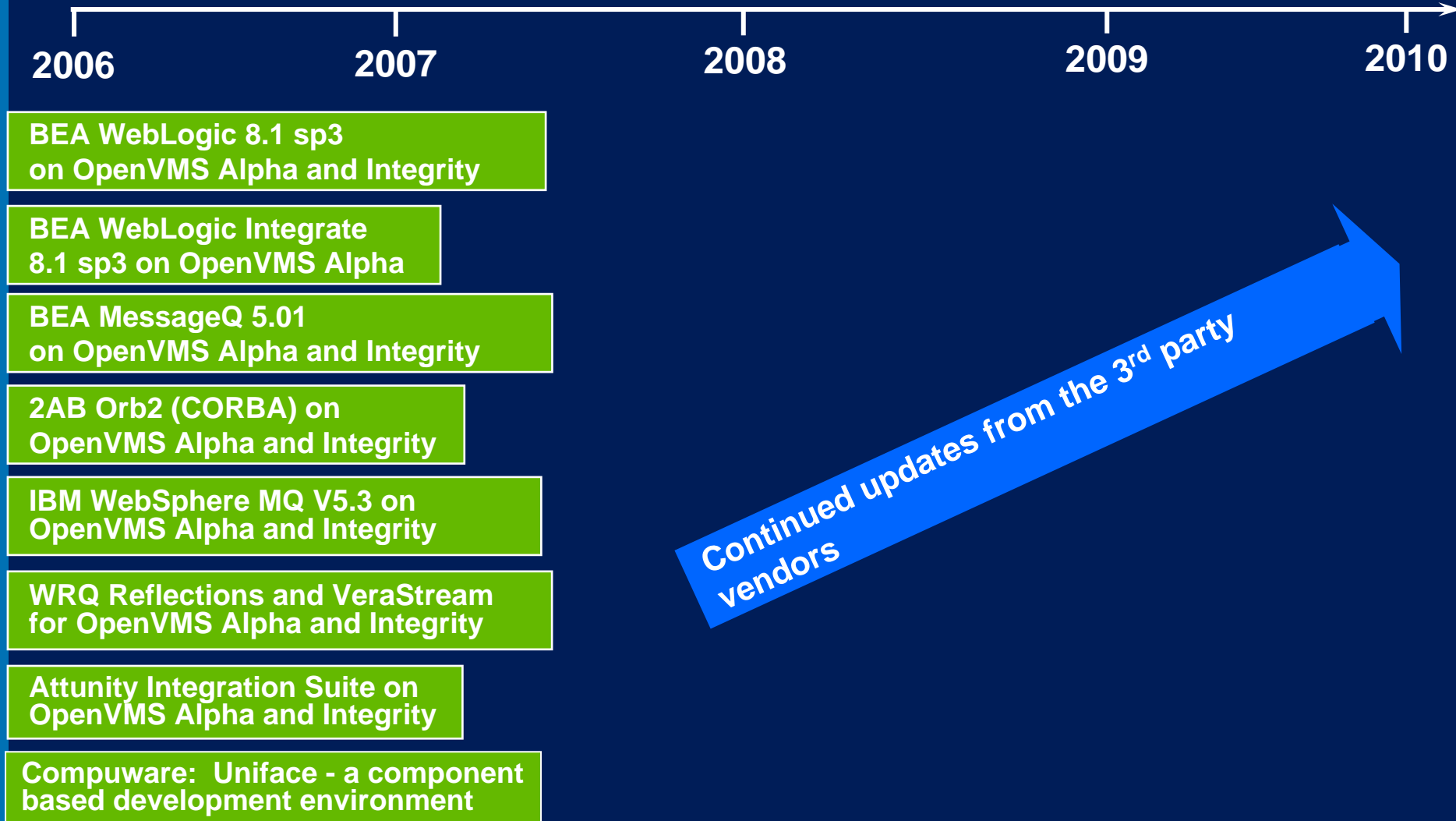


SWS and SWB updates on Alpha and Integrity tracking the associated open source project

OpenVMS eBusiness and Integration Technologies



OpenVMS eBusiness and Integration Technologies





Database Solutions



Oracle Roadmap - OpenVMS

	Now	Q3CY06	Future
Database Releases	<ul style="list-style-type: none">•8iR3(8.1.7.4)•9iR2(9.2.0.7)•20% perf boost•10gR1(10.1.0.3)•10gR2 Client Early Drop for Itanium	<ul style="list-style-type: none">•Oracle10gR2 Production for Itanium (Aug) & Alpha (Sept)	<ul style="list-style-type: none">•Next Major Database Release Itanium only•Alpha 9i/10g patchsets
Application Server	<ul style="list-style-type: none">•10g (9.0.4) Split Configuration	<ul style="list-style-type: none">•10g (10.1.x) Split Configuration	
E-Business Suite	<ul style="list-style-type: none">•11.0.3 w/8.1.7•11.5.8 w/8.1.7•11.5.10 w/9.2 (Split Configurations)	<ul style="list-style-type: none">•11.5.10 w/10gR1 (Split Configuration)	
OS Cert	<ul style="list-style-type: none">•VMS 7.3-2, 8.2 w/8iR3, 9iR2, 10gR2	<ul style="list-style-type: none">•Split Configurations allow backend database to reside on OpenVMS. Apps must be on supported middle-tier: HP-UX PA-RISC, Tru64 UNIX, Linux x86, Windows x86•Support for OpenVMS Alpha Database 10gR2 until at least 2011•8.3 Certification Planning Underway	



ORACLE

Oracle Rdb Roadmap

Development Stream	Q1 CY06	Q2 CY06	Q3 CY06	Q4 CY06	Q1 CY07	Q2 CY07	Q3 CY07	Q4 CY07
Rdb 7.0 VAX & Alpha	7.0.8.3 Maintenance Patch Release		7.0.9.0 Maintenance Patch Release + VMS 8.3 Certification			Maintenance Patch Release		Maintenance Patch Release
Rdb 7.1 Alpha			7.1.5.0 Maintenance Patch Release + VMS 8.3 Certification			Maintenance Patch Release		Maintenance Patch Release
Rdb 7.2 IA64 & Alpha	7.2.0.0 Production Release	7.2.0.1 Maintenance Patch Release	7.2.1.0 Maintenance Patch Release + VMS 8.3 Certification	Maintenance Patch Release	Maintenance Patch Release	Maintenance Patch Release	Maintenance Patch Release	
Rdb 7.3 IA64 & Alpha				7.3.0.0 New Feature + Maintenance Patch Release	Maintenance Patch Release	Maintenance Patch Release	Maintenance Patch Release	7.3.1.0 New Feature plus Maintenance Patch Release





System Management

- HP OpenView Integration Planning
- HP Web Management Agents
- HP OpenVMS Solutions

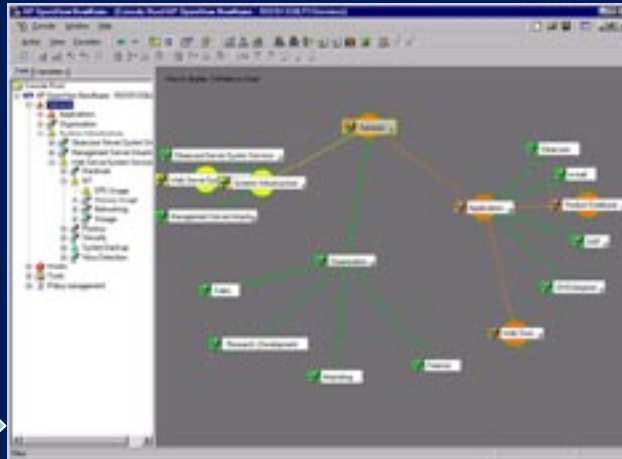


HP OpenView Portfolio Roadmap

OpenView Operations console



service management



management information portal

Q406 SPI for Rdb



applications



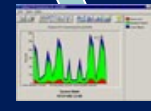
server



network



storage

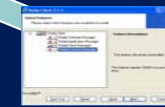


performance



backup & restore

OpenView Data Protector



software distribution

Radia Software Manager

Radia Patch Manager

- OpenView Operations for UNIX
- OpenView Operations for Windows
- OpenView VMS v7 SPI
- H107** ■ OpenView VMS v8 SPI

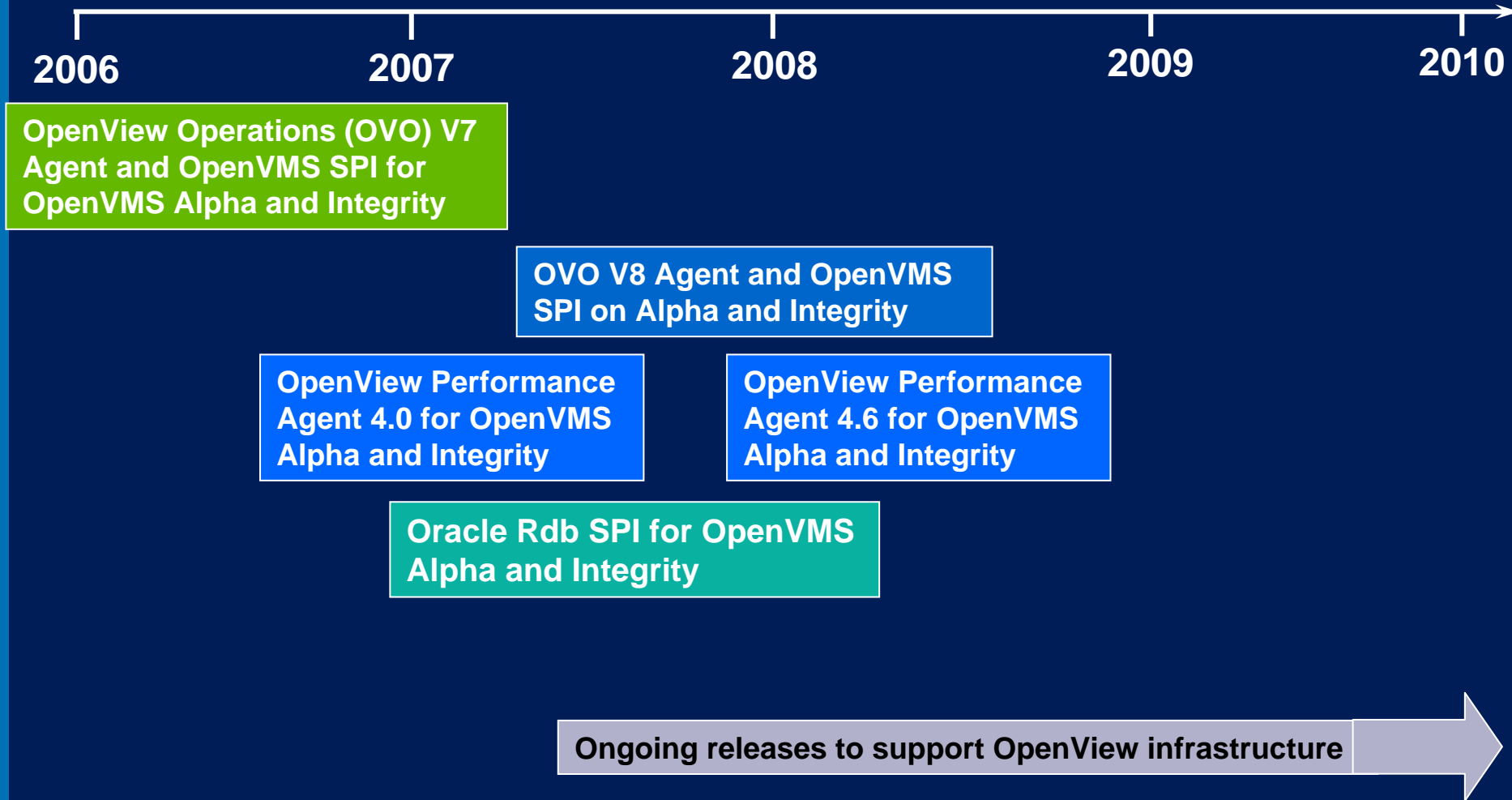
- OpenView NNM (Network Node Manager)
- OpenView TEMIP

- OpenView SAM (Storage Area Manager)
- OpenView Storage Provisioner
- OpenView Storage Allocator

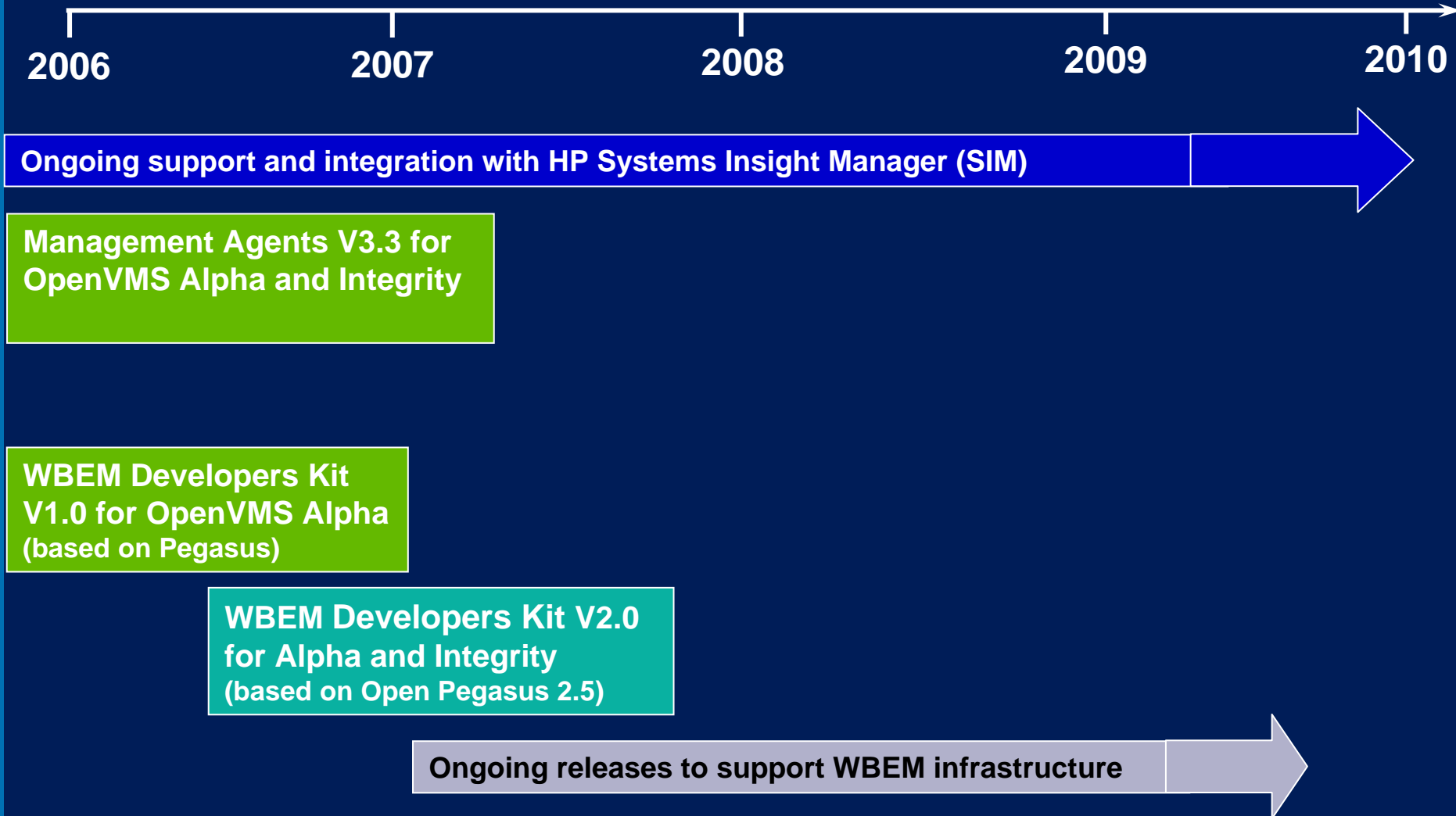
- GlancePlus
- OpenView Performance Agent **Q306**
- Availability Manager Events (GlancePlus)

■ = Current information contained here | ■ = Planned | ■ = Not currently planned

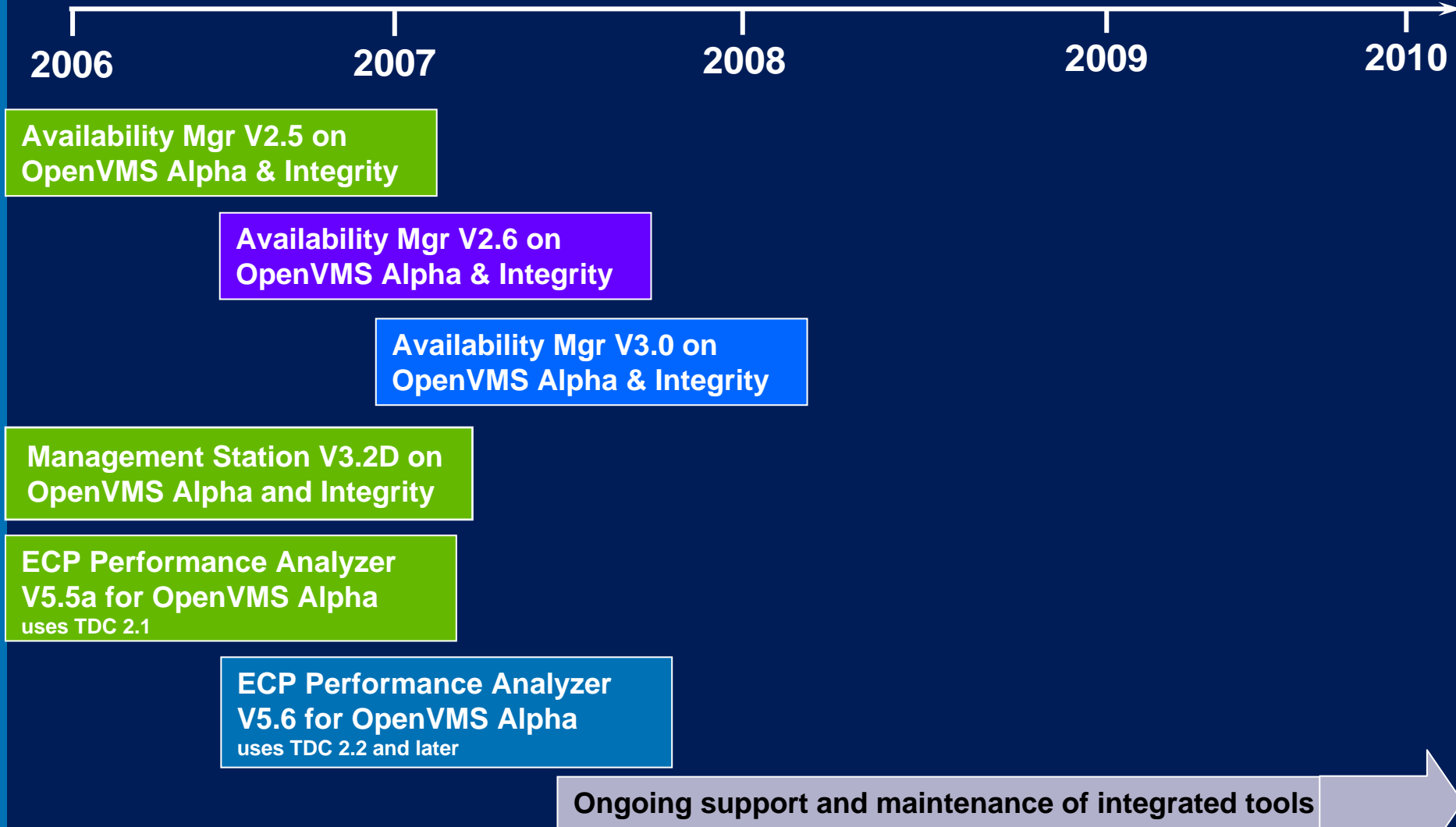
OpenVMS OpenView Roadmap



OpenVMS Server Management



Tools Integrated with OpenVMS



Tools Integrated with OpenVMS

2006 2007 2008 2009 2010

Performance Data Collector (TDC)
V2.1 for OpenVMS Alpha and Integrity

TDC V2.2 for Alpha
and Integrity

TDC V2.3 for Alpha
and Integrity

Graphical Configuration Manager (GCM)
V1.1 for OpenVMS Alpha

Ongoing support and maintenance of integrated tools



Networking Products

- **TCP/IP Services Server Products**
- **DECnet, WAN & X.25**
- **File/Print Servers and Common Internet File System (Samba)**
- **IBM SNA Products**



TCP/IP Services for OpenVMS

2006

2007

2008

2009

2010

TCP/IP V5.6 H2 2006 - Alpha & Integrity for OVMS V8.3

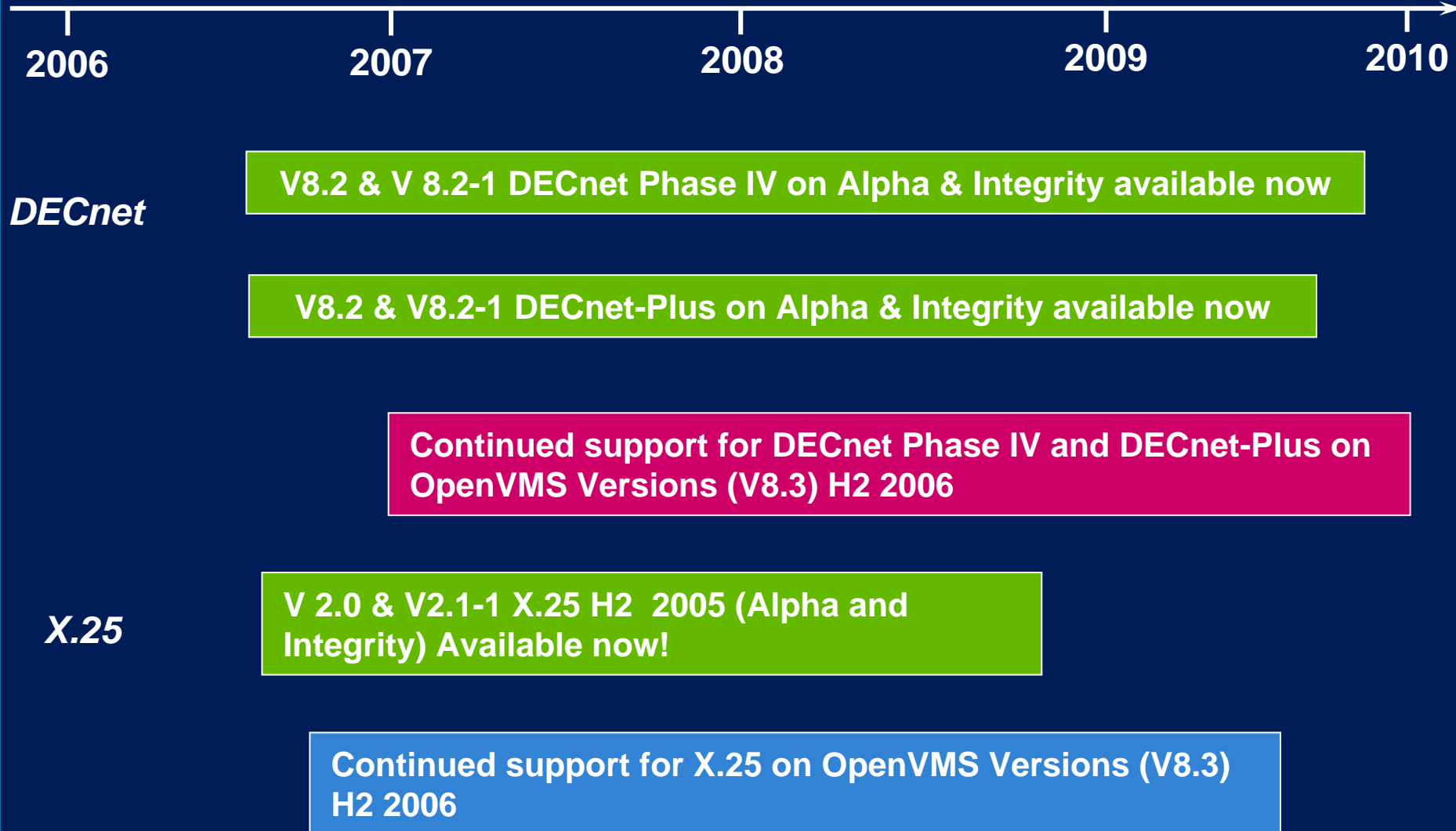
- DNS /BIND 9 Resolver & V9.3 Server
- NFS enhancements
- FTP performance improvements
- Security modifications
 - DNS security extensions
 - NTP sec update (SSL)
 - SSH upgrade w/Kerberos
- Mail improvements
- TELNET Server Device limit
- IPV6 support – LPD & TELNETSYM
- TCPIP\$CONFIG (failSAFE) update
- Improved Mgt Utilities (ifconfig)

TCP/IP (Next)

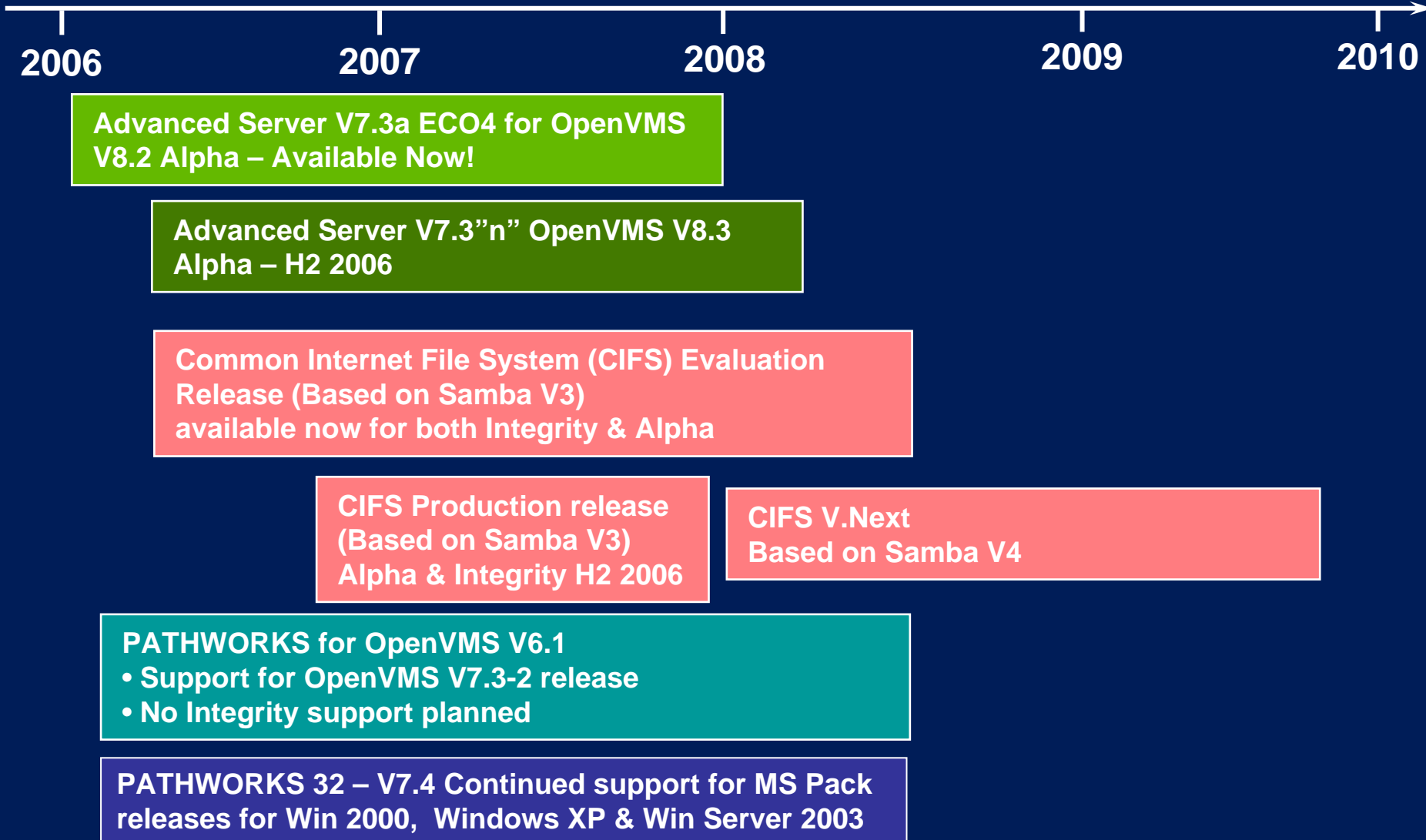
- *Continued focus on Networking enhancements to support interoperability, connectivity, discovery, and security*
- IPsec

**IPsec EAK available post
OpenVMS V8.3 & TCP/IP V5.6**

DECnet & X.25 Product Roadmap



File/Print Servers & Common Internet File System (CIFS) - Samba



OpenVMS IBM SNA Solutions

2006

2007

2008

2009

2010

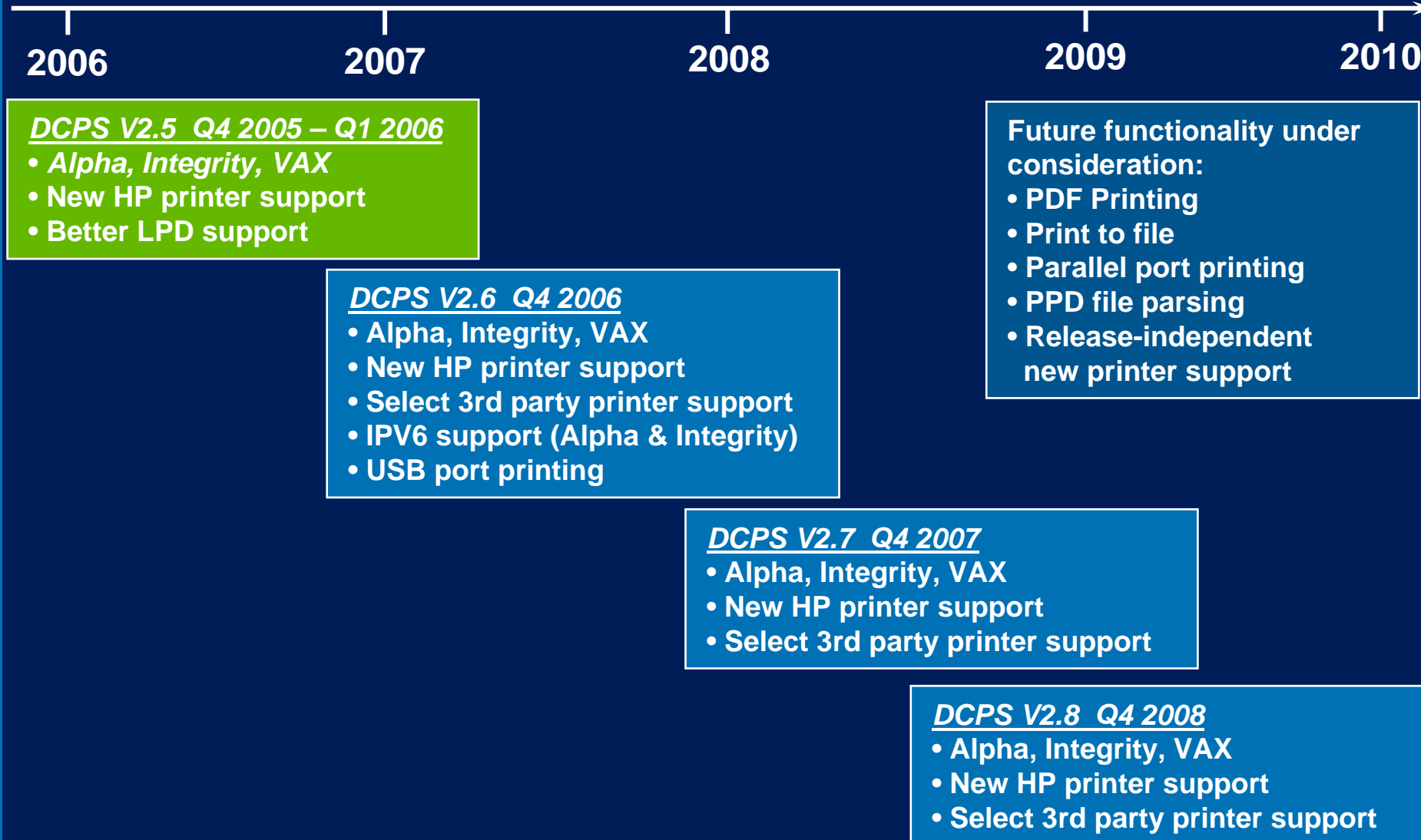
**Support for HP OpenVMS SNA product set on
OpenVMS Version 8.2 Alpha available now**

IBM SNA product port to Integrity Supporting OpenVMS V8.2-1 November 2006

- HP SNA 3270 Terminal Emulator for OpenVMS
- HP SNA Remote Job Entry for OpenVMS
- HP SNA Application Programming Interface for OpenVMS
- HP SNA 3270 Data Stream Programming Interface for OpenVMS
- HP SNA APPC/LU6.2 Programming Interface for OpenVMS
- HP SNA Printer Emulator for OpenVMS
- HP SNA Data Transfer Facility "Client & Server" for OpenVMS

**Support for HP OpenVMS SNA product set on
OpenVMS V8.3 H2 2006**

DECprint Supervisor (DCPS) Roadmap

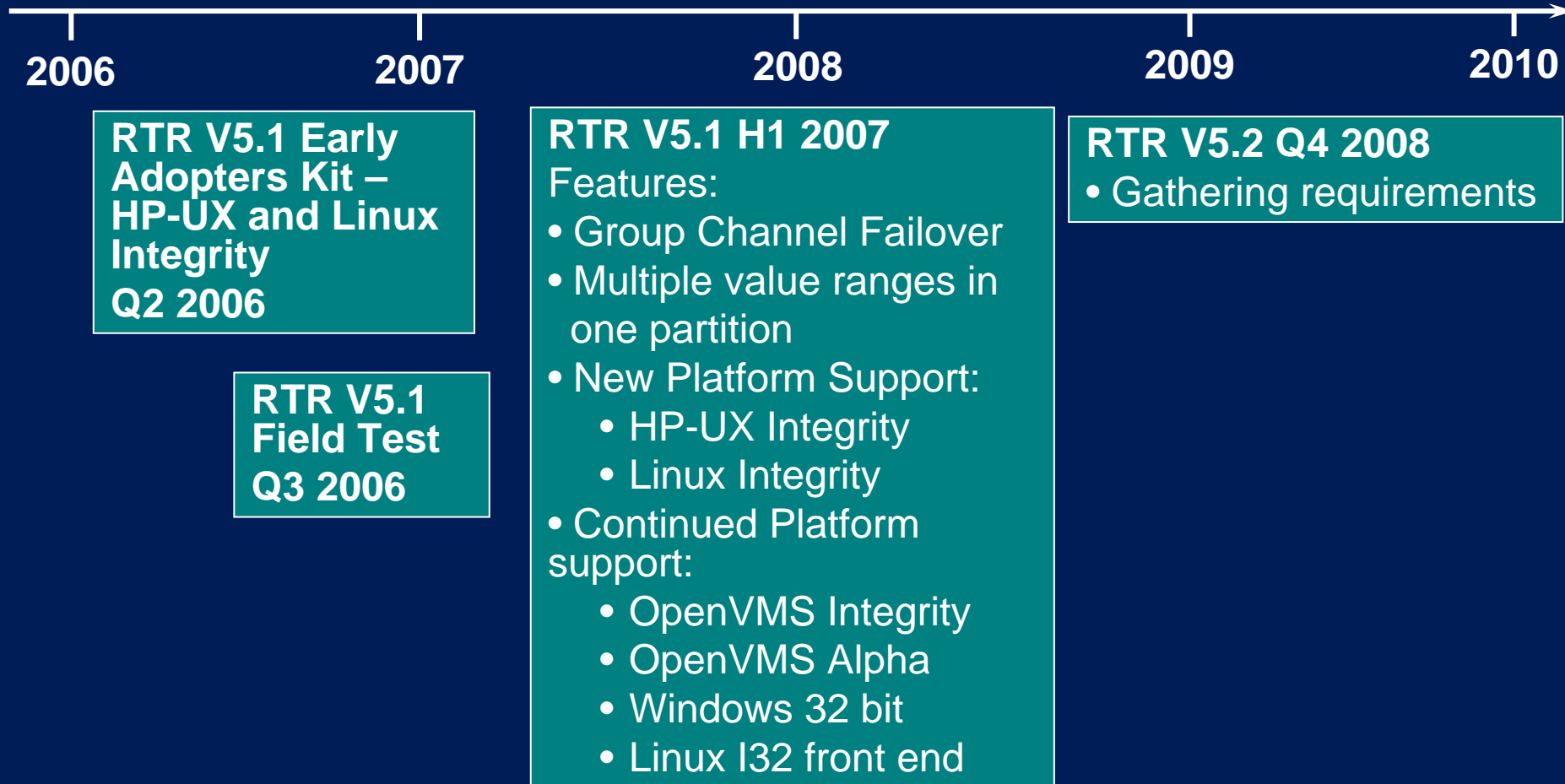




Transaction Processing and Middleware Software

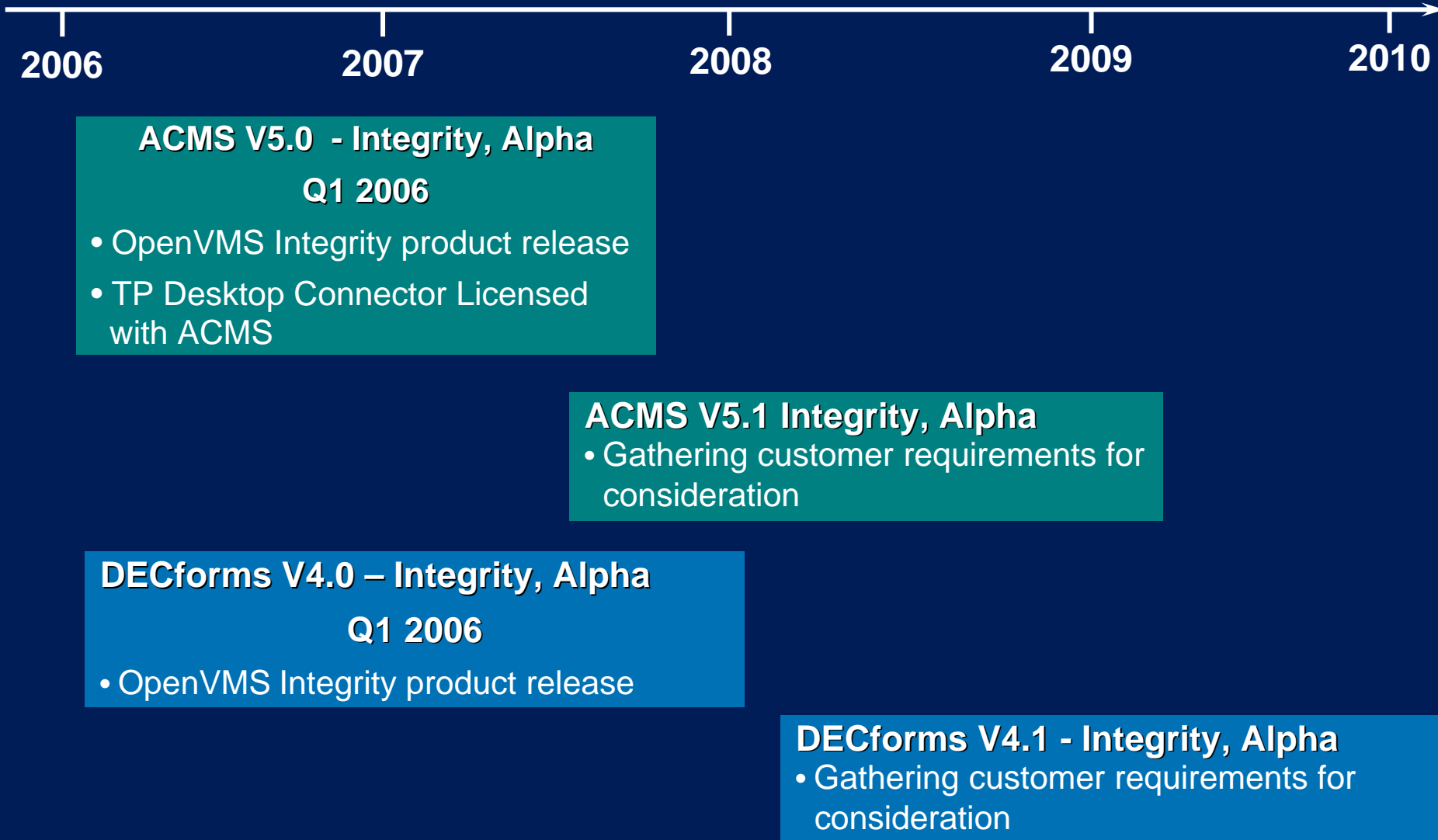


Reliable Transaction Router (RTR) Roadmap



Note: RTR for OpenVMS VAX platform end of service life - August 31, 2006.
RTR version 4.2 for Sun Solaris and Tru64 UNIX are in Mature Product Status.

ACMS and DECforms Roadmap

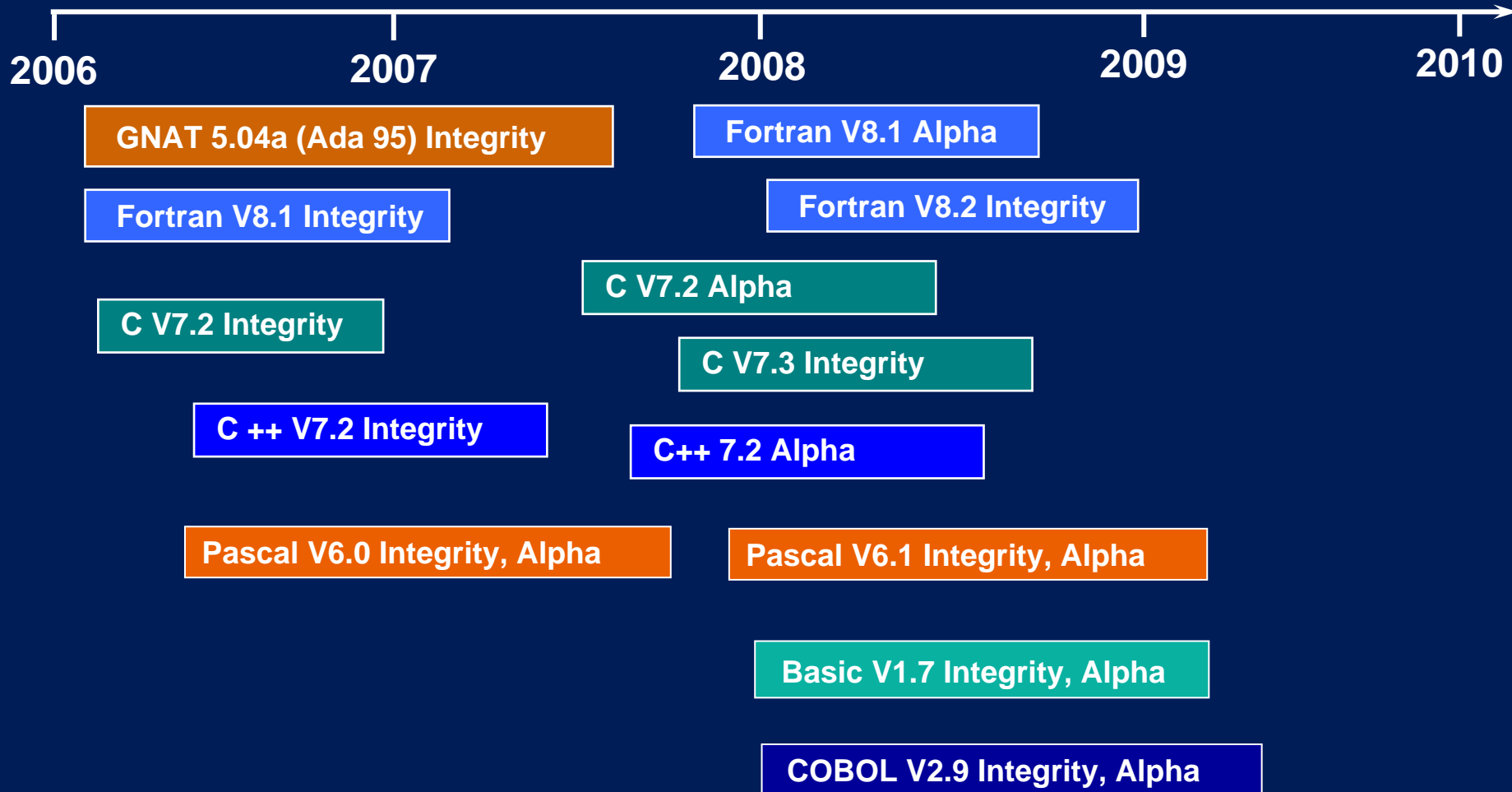




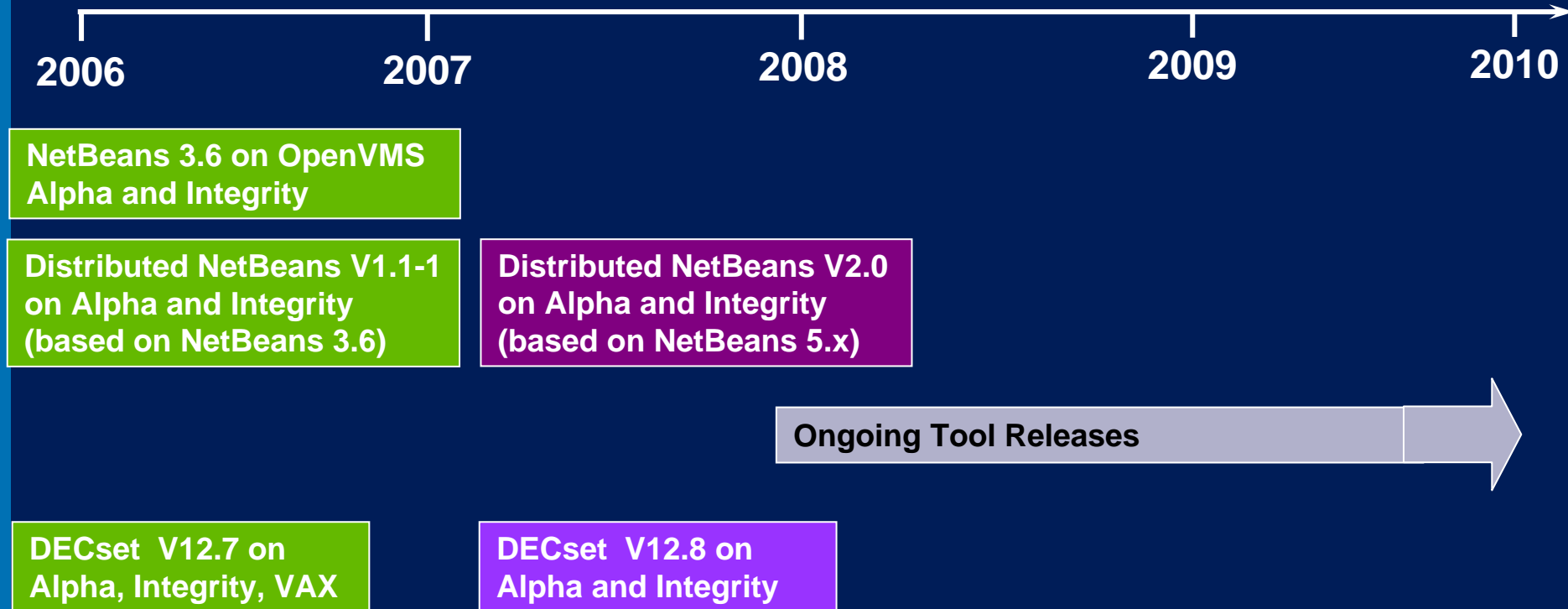
Application Development Into The Future



Application Development and Deployment - Compilers



Application Development and Deployment - Tools



OpenVMS Unified Messaging and Directory Roadmap



- **CommuniGate Pro - Unified Messaging and Voice over IP SIP Server (CommuniGate Systems)**
OpenVMS Integrity and AlphaServer
The endorsed replacement for ALL-IN-1, Office Server, TeamLinks, MAPI Driver

- **Enterprise Directory V5.4**
on OpenVMS 8.2 Foundation
Operating Environment for Integrity
and OpenVMS 8.2 AlphaServer



BASEstar Products



BASEstar Roadmap



BASEstar V3.2 – January 2006

- New OpenVMS release for Integrity
- New HP-UX release for Integrity
- Specific components: BASEstar Open Server, DEComni API, DECoasp/H1, DECosap/ AP, Siemens S7
- Quality enhancements
- Point Locking functional enhancement

BASEstar V3.2 Platforms supported

- OpenVMS VAX & Alpha
- Tru64 UNIX
- Windows
- HP-UX PA-RISC

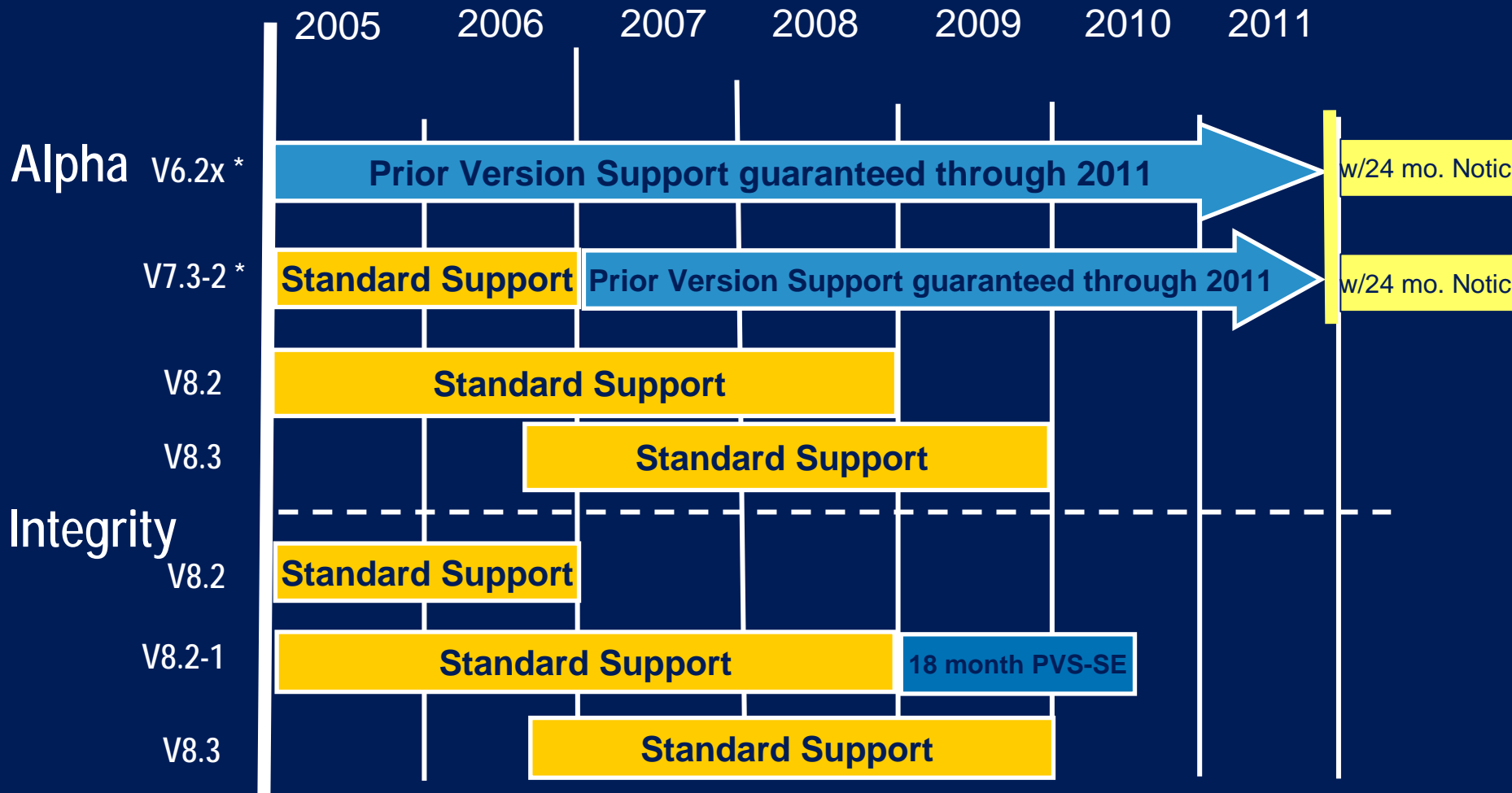
Continued support for BASEstar



OpenVMS Service Support



Enhanced OpenVMS Service Support Roadmap

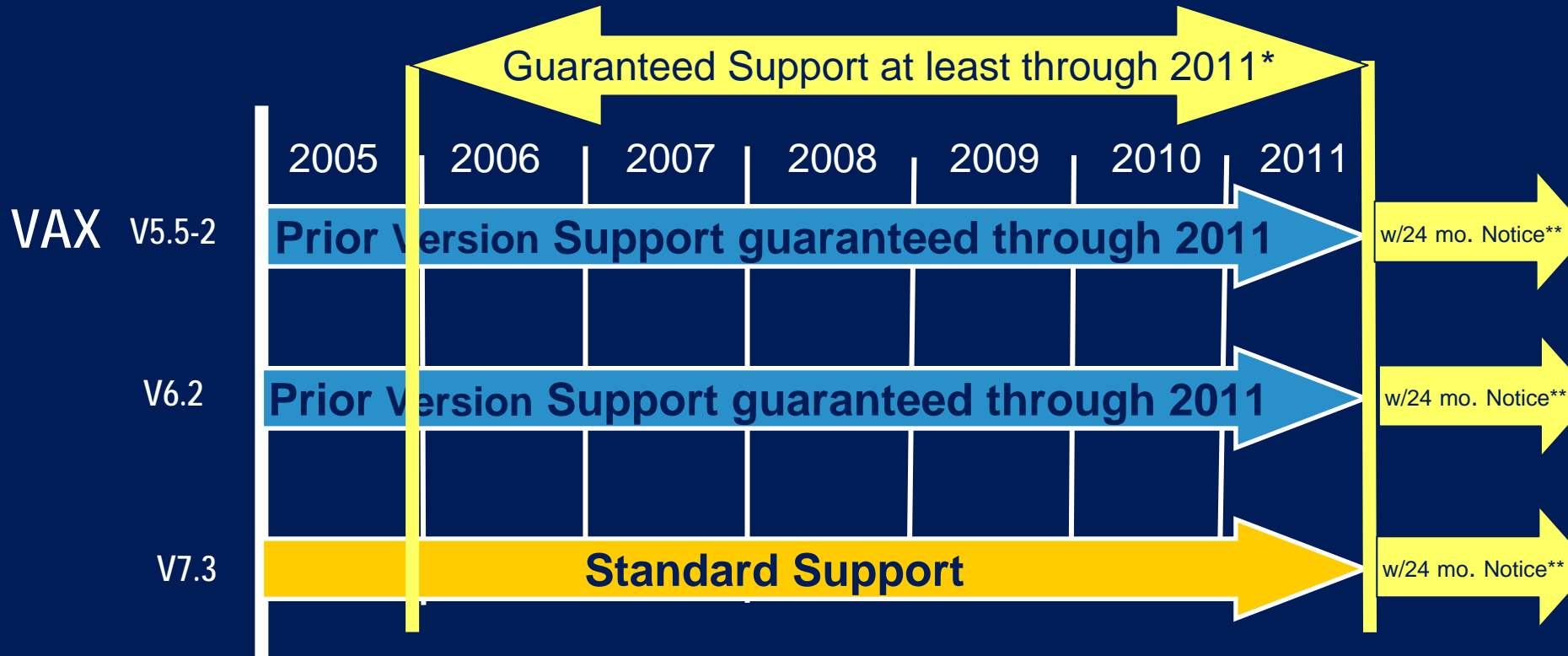


• Prior Version or Standard support will be provided on these versions at least through 2011.

** w/24 mo notice: A 24-month notification will be provided before support is ended.

Standard support ends when the 2nd subsequent release ships. HP supports the current version and one back. Future version shipment dates are estimates.

Enhanced OpenVMS Service Support Roadmap



* Prior Version or Standard support will be provided on these versions at least through 2011.

** w/24 mo notice: A 24-month notification will be provided before support is ended.

Notice

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