


invent


# OpenVMS Update

1G01

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CCCSC



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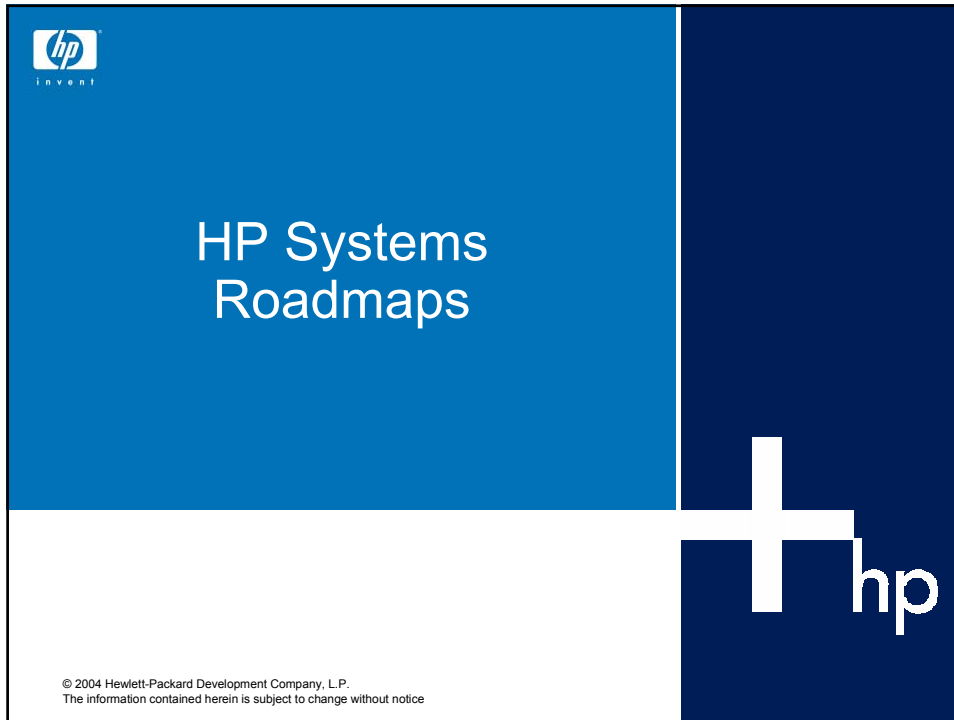


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## Agenda

- OpenVMS Roadmaps
- OpenVMS V8.2
  - User
  - System Manager
  - Programming
- OpenVMS Support

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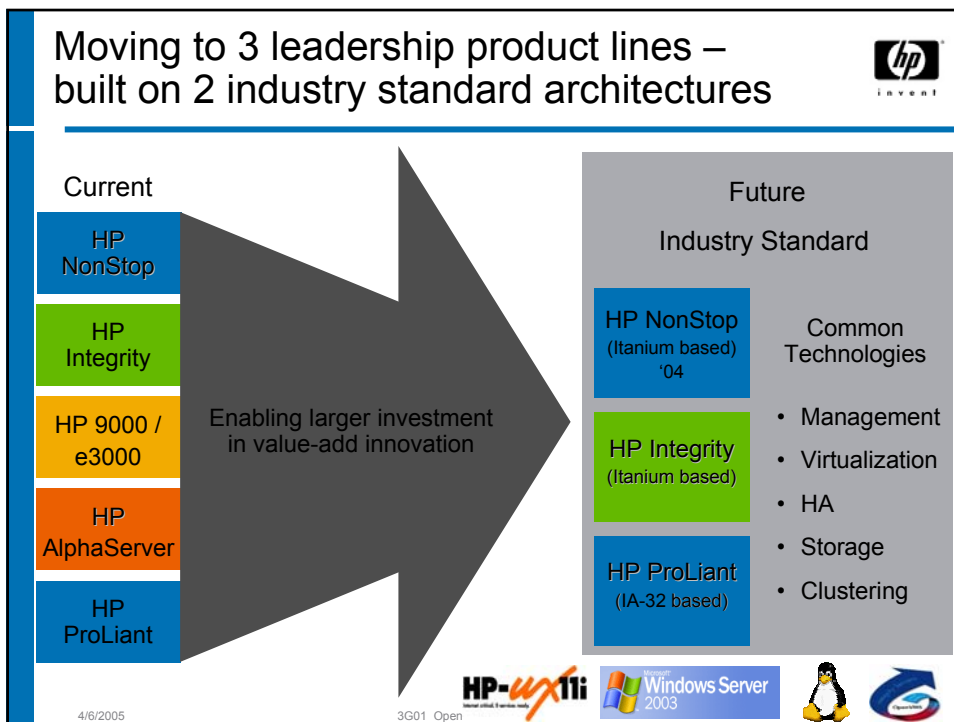
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# HP Systems Roadmaps

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## 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**

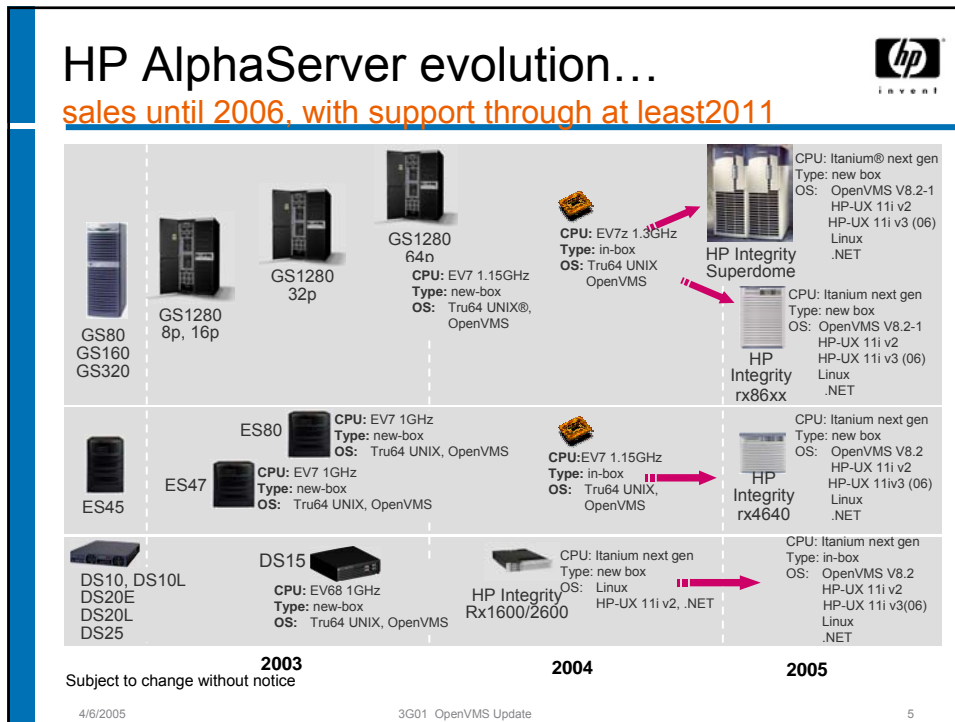
- HP NonStop (Itanium based) '04
- HP Integrity (Itanium based)
- HP ProLiant (IA-32 based)

**Common Technologies**

- Management
- Virtualization
- HA
- Storage
- Clustering

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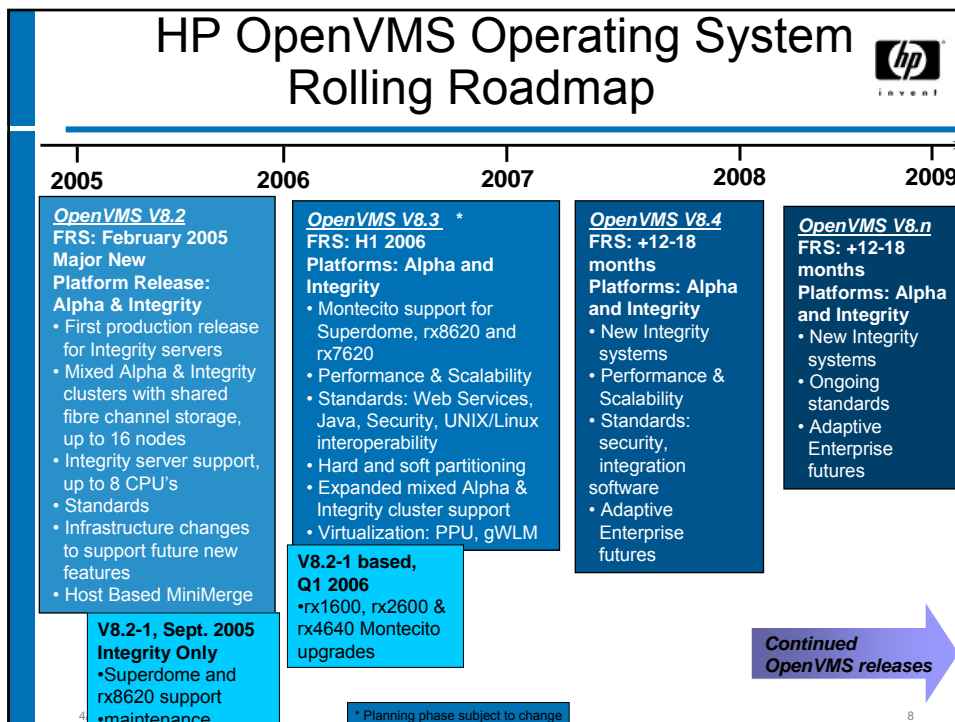
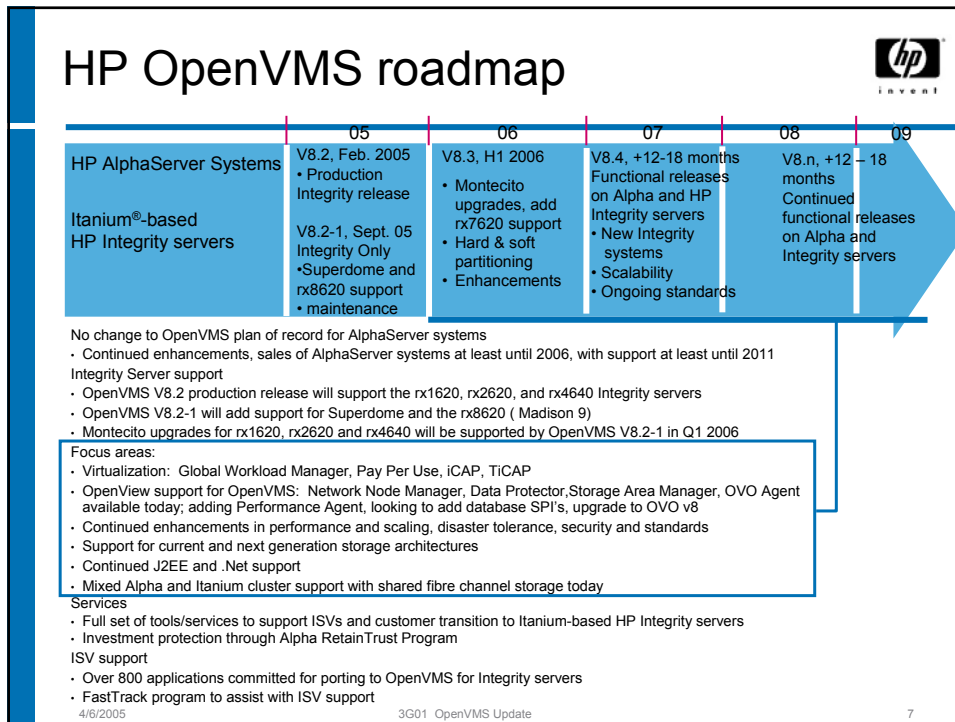
### HP OpenVMS Operating System for VAX, AlphaServers, and Integrity Servers

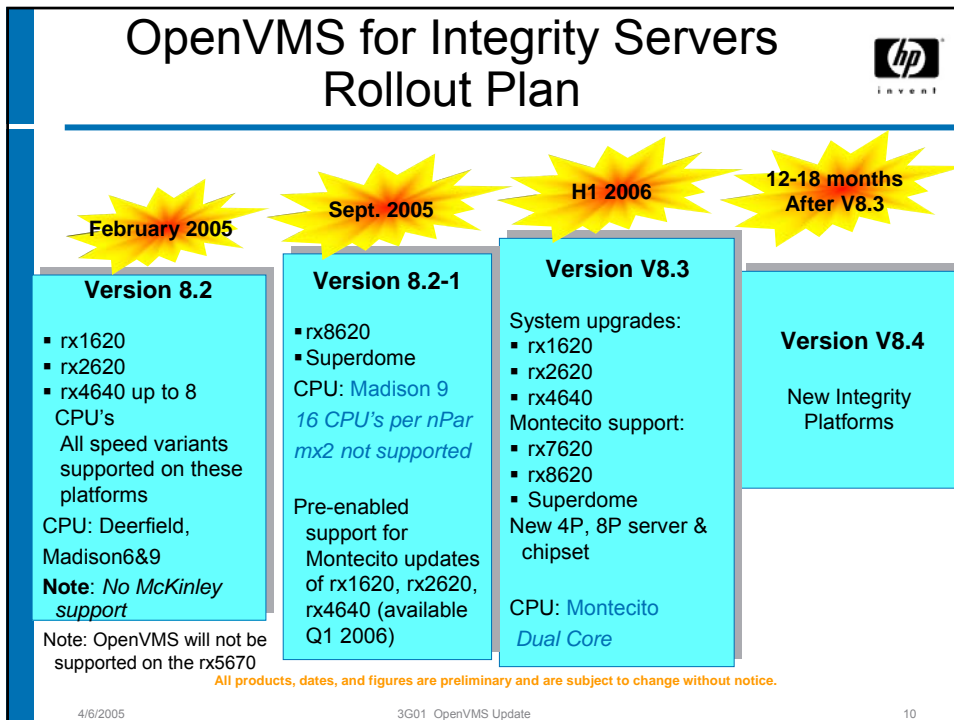
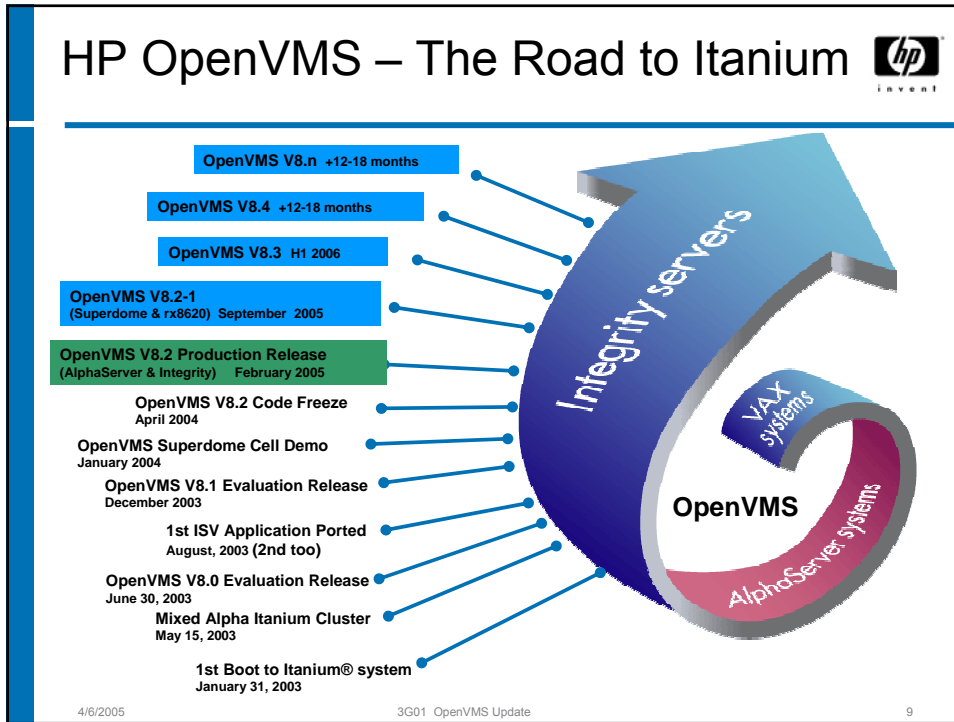
- OpenVMS Releases
- OpenVMS Port to Integrity Servers
- Clusters
- Storage
- LAN
- Security

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## OpenVMS Integrity Clusters Rollout Plan



**February 2005**

**Version 8.2**

- ❖ Enhanced cluster support
  - Cluster node count for V8.2 limited to 16 nodes (8 Alpha, 8 Integrity)
  - Cluster node count >16 nodes during 2005
- ❖ Cluster Interconnect
  - Gigabit Ethernet
  - 10/100 Ethernet

V8.2 (Warranted)  
V8.2 & V7.3-2 Alpha (Warranted)

**H1 2006**

**Version 8.3**

- ❖ Full Functionality
  - Cluster Satellite Boot
- ❖ Cluster Interconnect
  - Gigabit Ethernet
  - 10/100 Ethernet
  - 10 Gigabit Ethernet\*
  - Next-Generation Interconnect – post V8.3


V8.x (Warranted)  
V8.x & V8.2 & V7.3-2 Alpha (Migration)

\* - If HP Program is Ready

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## OpenVMS Integrity Option Rollout Plan



**February 2005**

**Version 8.2**

- ❖ **Storage**
  - U160 & U320 SCSI (non-shared)
  - Fibre Channel
  - SmartArray Backplane RAID (mid-2005)
- ❖ **Storage Solutions**
  - HSG, EVA, MSA1000, XP
- ❖ **LAN**
  - 5701(10/100/1000)
  - 8255x (10/100/1000)
- ❖ **Graphics**
  - ATI Radeon 7000 equiv.
  - ATI Radeon 7500/2D & 3D

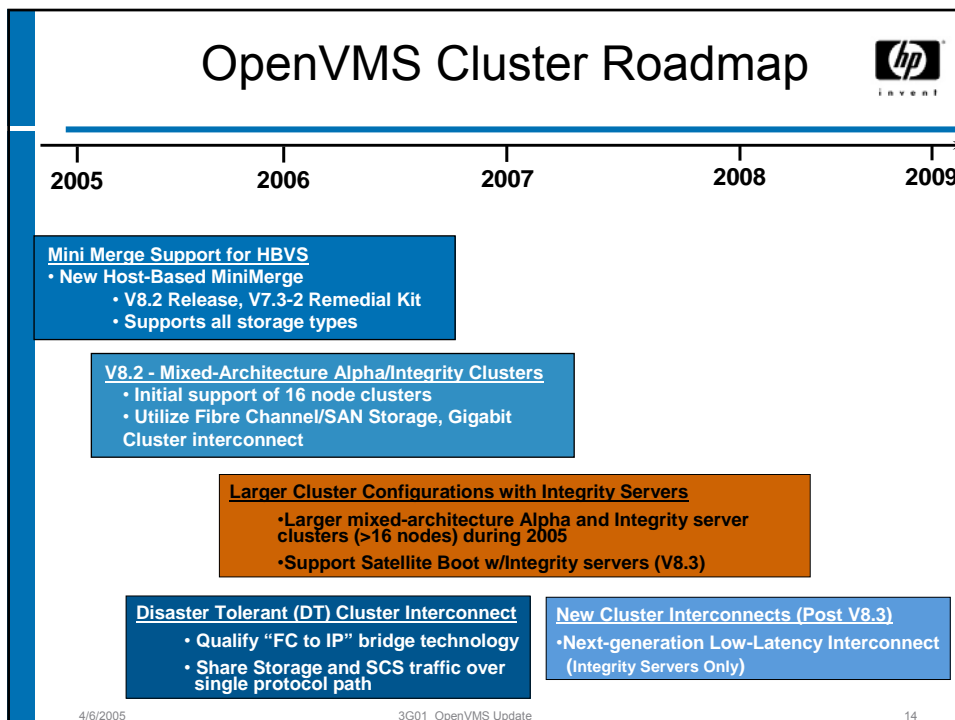
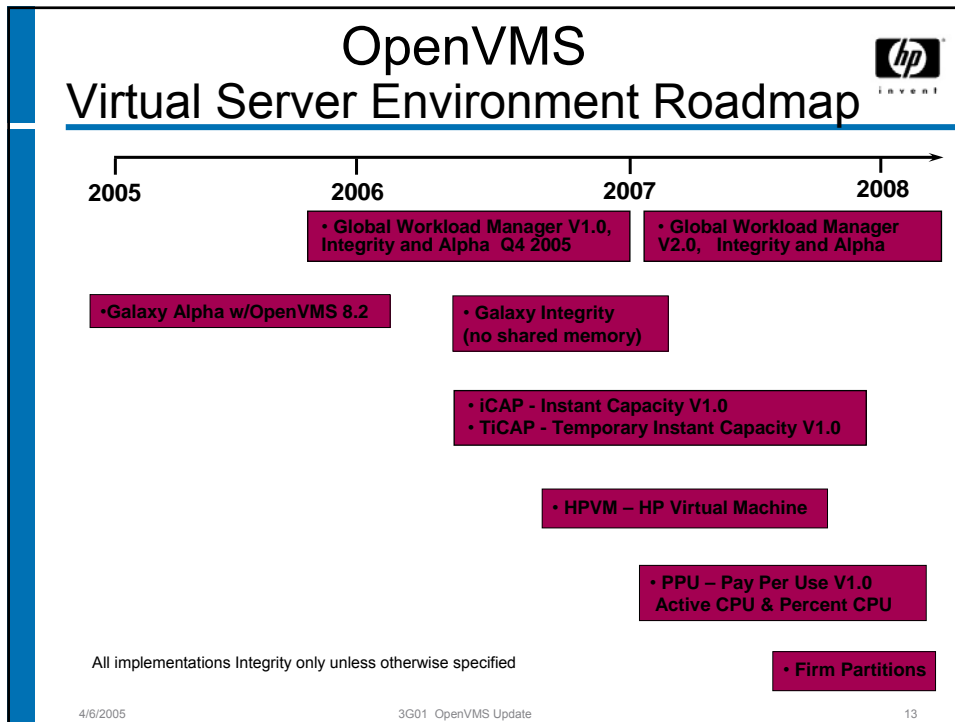
**H1 2006**

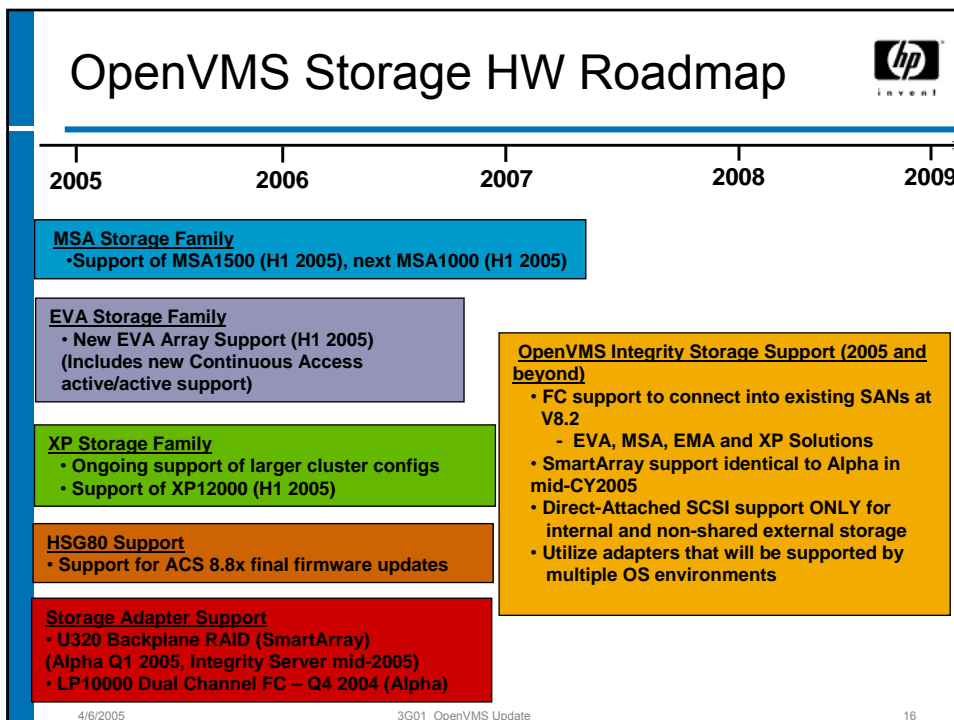
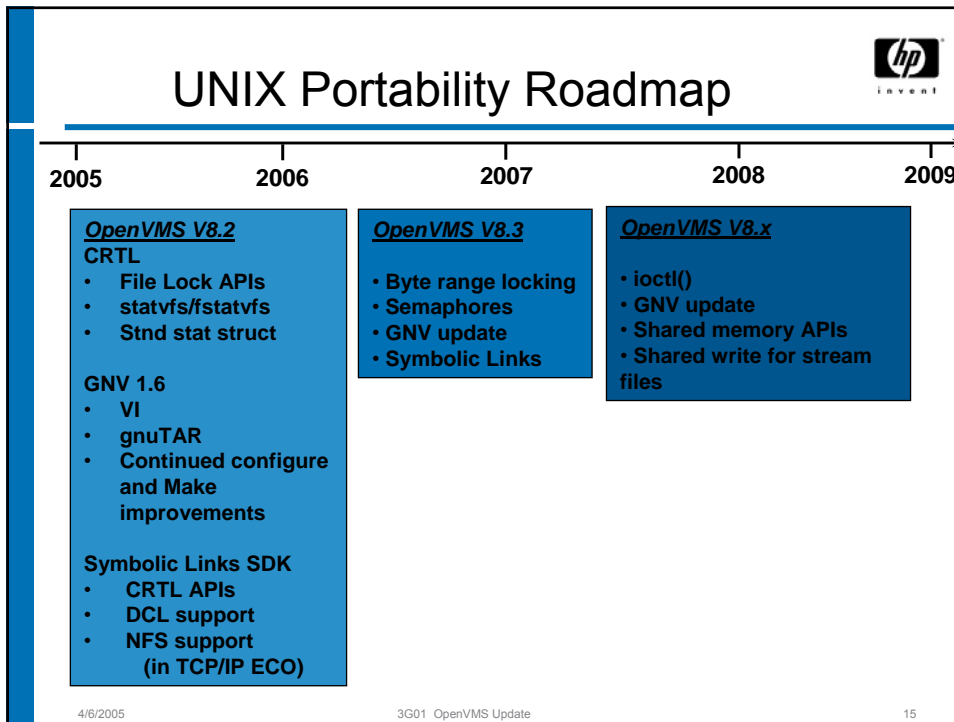
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- ❖ **Storage**
  - U160 & U320 SCSI (non-shared)
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- ❖ **Storage Solutions**
  - HSG, EVA, MSA1000, XP
- ❖ **LAN**
  - 5701(10/100/1000)
  - 8255x (10/100/1000)
- ❖ **Graphics**
  - TBD

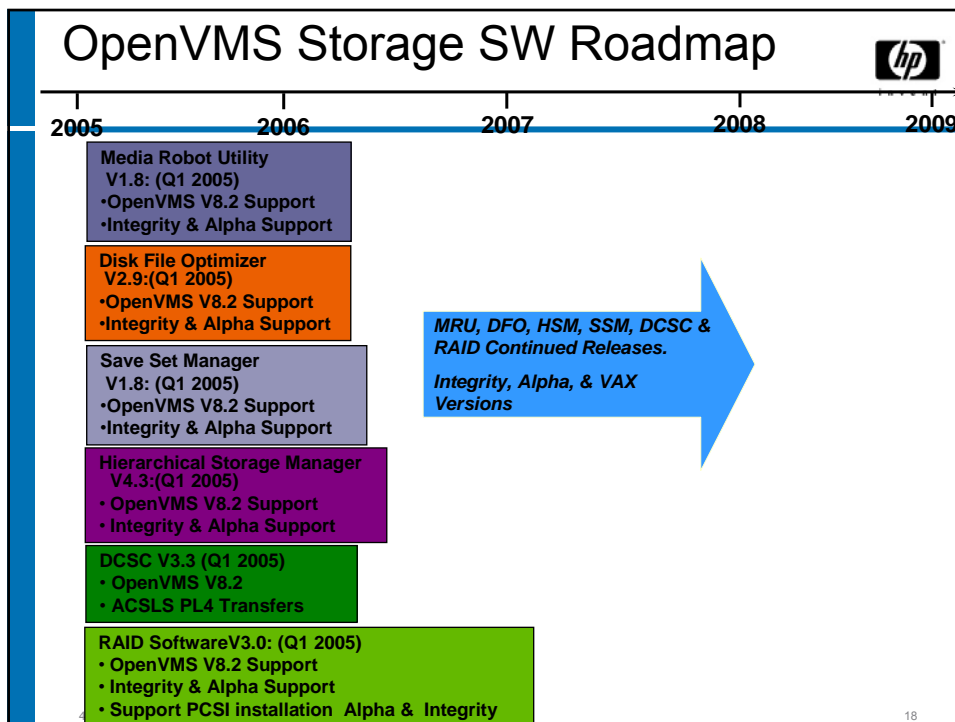
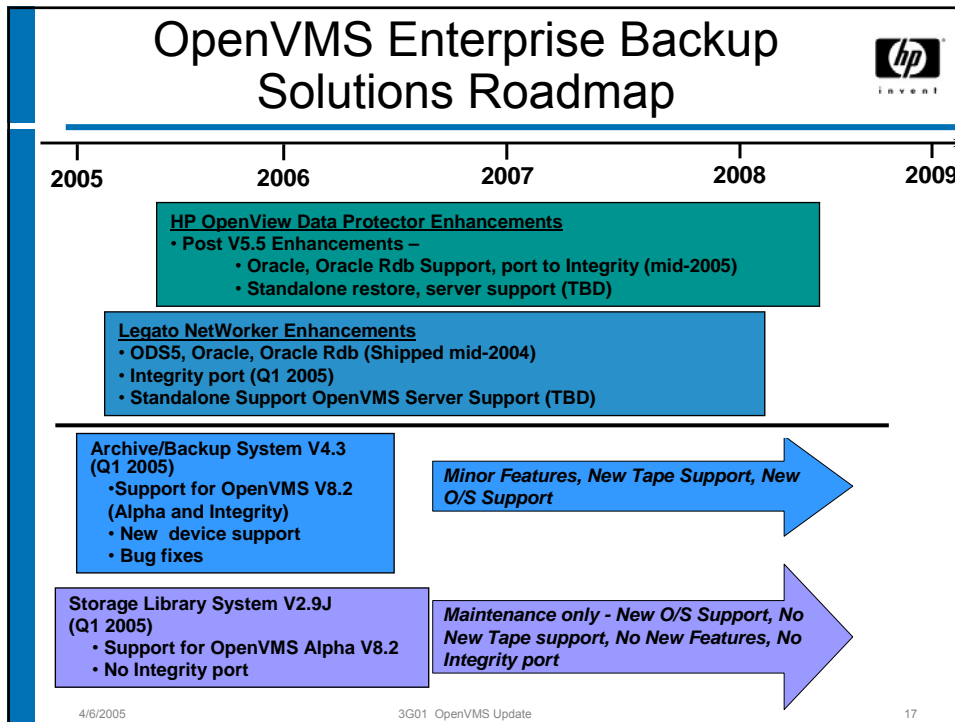
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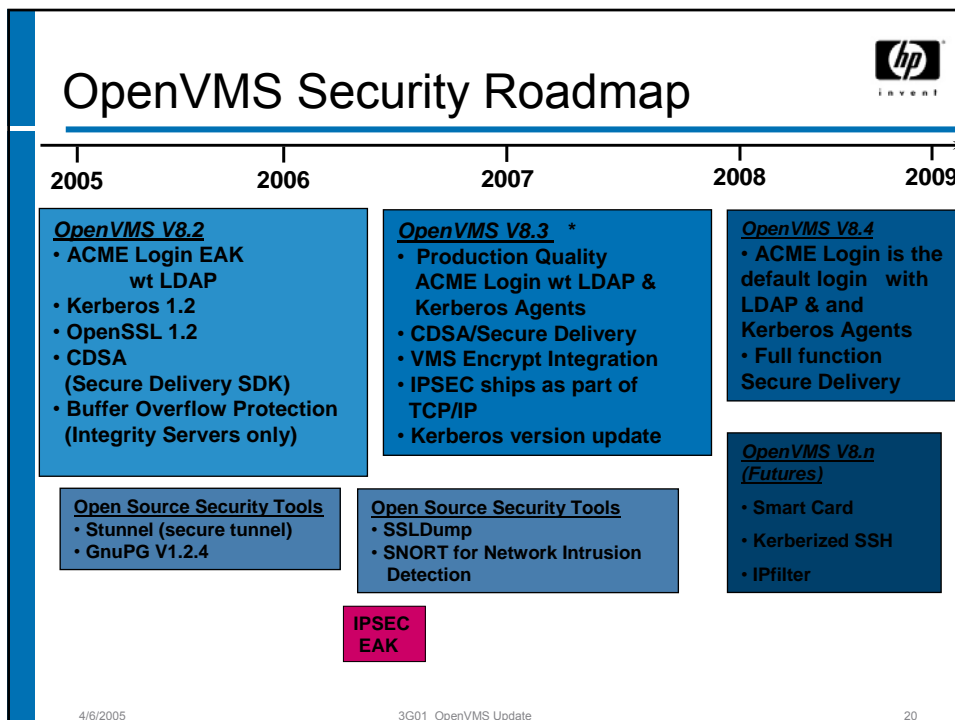
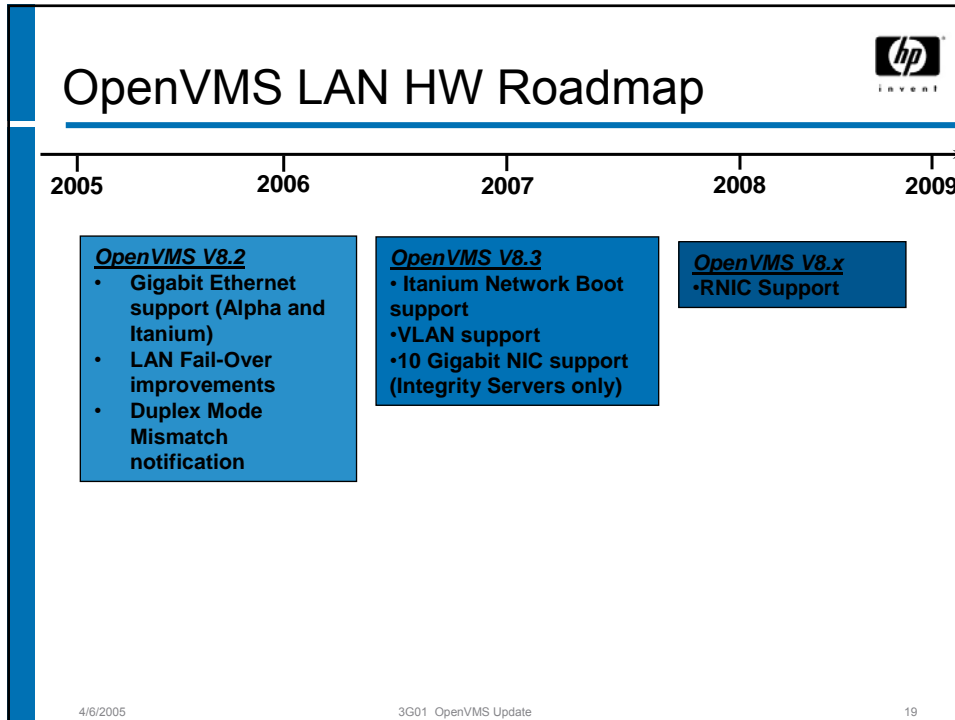
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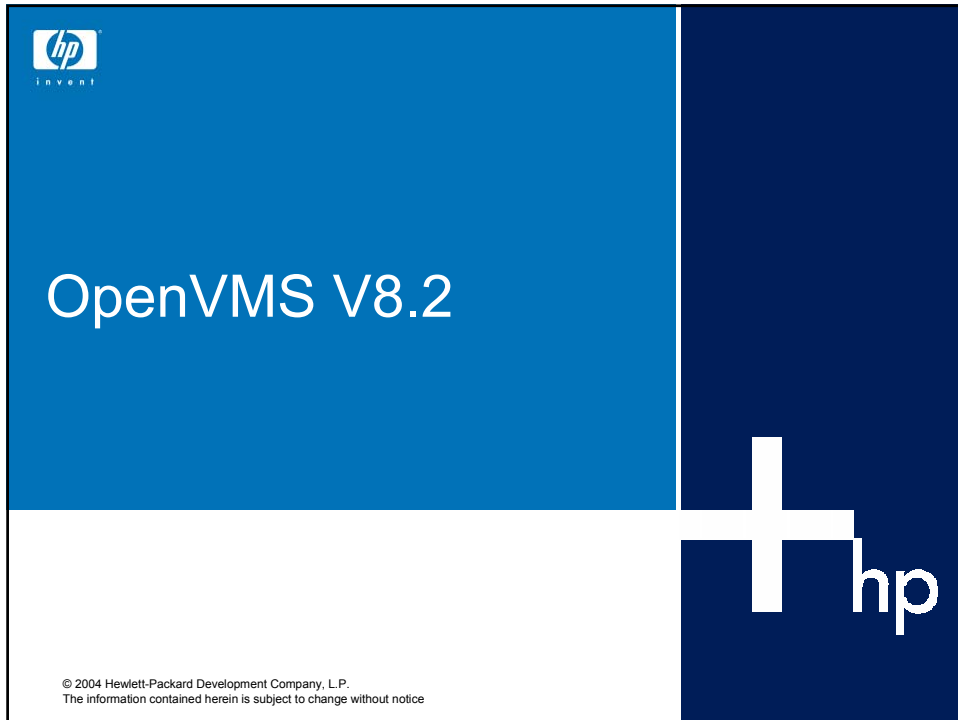




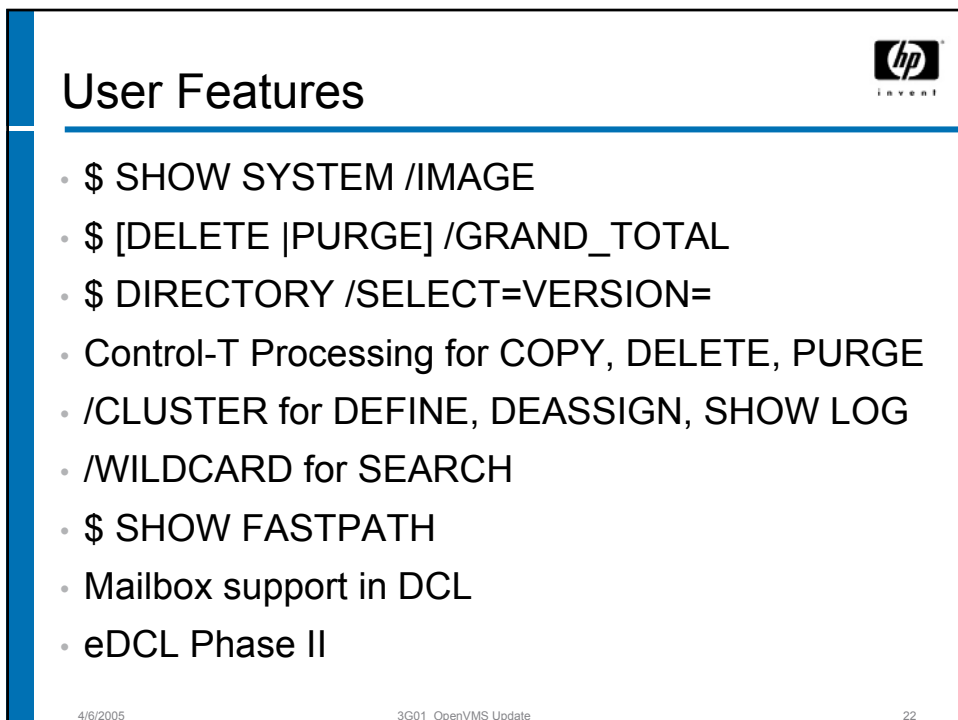









The slide features a blue background on the left and a dark blue background on the right. In the top left corner, there is a small HP logo with the word "invent" underneath. The text "OpenVMS V8.2" is displayed in white on the blue background. On the right side, there is a large white plus sign followed by the lowercase letters "hp" in white. At the bottom left, there is a small copyright notice: "© 2004 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice".



The slide has a white background with a blue vertical bar on the left. In the top right corner, there is a small HP logo with the word "invent" underneath. The title "User Features" is written in a large, bold, black font. Below the title is a list of features, each preceded by a bullet point. At the bottom left, there is a date "4/6/2005". At the bottom center, there is a page number "3G01 OpenVMS Update". At the bottom right, there is a page number "22".

## User Features


- \$ SHOW SYSTEM /IMAGE
- \$ [DELETE |PURGE] /GRAND\_TOTAL
- \$ DIRECTORY /SELECT=VERSION=
- Control-T Processing for COPY, DELETE, PURGE
- /CLUSTER for DEFINE, DEASSIGN, SHOW LOG
- /WILDCARD for SEARCH
- \$ SHOW FASTPATH
- Mailbox support in DCL
- eDCL Phase II



## User Features

- System Service Logging
- \$ SET | SHOW IMAGE (I64 only)
- Physical Backup to large disk possible
- Monitor rewritten

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## System Management Features

- Host Based MiniMerge (HBMM)
- SDA Changes
- New System Parameters
- Mixed Architecture Cluster
  - Alpha and VAX
  - IA64 and Alpha
    - Maximum of total 16 nodes
    - Maximum of 8 I64 nodes
    - Temporary Restrictions
    - V7.3-2 and V8.2 in same cluster

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## Upgrading OpenVMS Alpha & Integrity Environments



- System Software Upgrade Paths to V8.2
- Alpha Direct Upgrade Paths:
  - V7.3-2 to V8.2
  - V7.3-1 to V8.2
- Integrity Direct Upgrade Paths:
  - Fresh install required
- Cluster Upgrade Paths – Alpha & Integrity
  - Cluster rolling upgrades are supported from V7.3-2
  - Warranted pairs are V8.2/V8.2 and V8.2/V7.3-2

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## HP OpenVMS Integrity Packaging



### *New Operating Environment Options*

- HP OpenVMS Mission Critical OE
- HP OpenVMS Enterprise OE
- HP OpenVMS Foundation OE

#### OE Bundle Benefits:

- Easier to order
- Easier license management
- Straight forward installation of OE's from a single DVD
- Simpler support contracts

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## OpenVMS Integrity Licensing/Packaging

- Operating Environment Licensing:
  - Per Processor Licensing (PPL) model for each operating environment
  - One LMF PAK for each OE bundle purchased.
  - The Foundation Operating Environment (FOE) is required.
  - Component products of the EOE and MCOE are also available separately
  - Delivered on one OE DVD
- HP OpenVMS layered products
  - Per Processor Licensing (PPL)
  - Concurrent Use license for compilers only
  - Products are on the Layered Product Library Media
- Service Update contract changes on Integrity platform:
  - Service Update contract required to receive operating system and/or layered product release updates.
  - Non-service customers are required to repurchase the product license (at full price) to obtain updates.


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## HP OpenVMS Integrity Packaging

**OpenVMS Integrity Foundation Operating Environment (FOE)**

<ul style="list-style-type: none"> <li>• OpenVMS Operating System</li> <li>• <b>OpenVMS Unlimited User Licensing</b></li> <li>• TCP/IP Services for OpenVMS</li> <li>• DECnet-Plus for OpenVMS End System</li> <li>• DECwindows Motif for OpenVMS</li> <li>• DECnet IV</li> <li>• Performance Data Collector</li> <li>• Web Agents</li> <li>• WEBM / CIM</li> </ul>	<p><b>Integration Technologies</b></p> <ul style="list-style-type: none"> <li>• Secure Web Server (SWS)</li> <li>• Secure Web Browser (SWB)</li> <li>• SDK for the Java™ Platform</li> <li>• XML Technology</li> <li>• NetBeans</li> <li>• Simple Object Access Protocol (SOAP) Toolkit</li> <li>• Kerberos</li> <li>• Enterprise Directory</li> <li>• CDSA</li> <li>• SSL</li> <li>• OpenSource Tools</li> </ul>
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## HP OpenVMS Integrity Packaging

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### OpenVMS Integrity Enterprise Operating Environment

#### OpenVMS Integrity Foundation OE


- OpenVMS Operating System
- OpenVMS Unlimited User Licensing
- TCP/IP Services for OpenVMS
- DECnet-Plus for OpenVMS End System
- DECwindows Motif for OpenVMS
- DECnet IV
- Performance Data Collector
- Web Agents
- WEBM / CIM

#### Add to Foundation:

- \* RMS Journaling
- \* Volume Shadowing
- \* DECram
- \* OpenVMS Management Station
- \* Availability Manager-AM
- \* OpenView Performance Agent (H2 2005)

Note: Products listed in yellow are available as separately licensable products outside of OE package if desired.

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## HP OpenVMS Integrity Packaging

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### OpenVMS Integrity Mission Critical Operating Environment

#### OpenVMS Integrity Enterprise Operating Environment

#### OpenVMS Integrity Foundation OE

- OpenVMS Operating System
- OpenVMS Unlimited User Licensing
- TCP/IP Services for OpenVMS
- DECnet-Plus for OpenVMS End System
- DECwindows Motif for OpenVMS
- DECnet IV
- Performance Data Collector
- Web Agents
- WEBM / CIM


#### Add to Foundation:

- \* RMS Journaling
- \* Volume Shadowing
- \* DECram
- \* VMS Management Station
- \* Availability Manager – AM
- \* OpenView Performance Agent

#### Add to Enterprise:

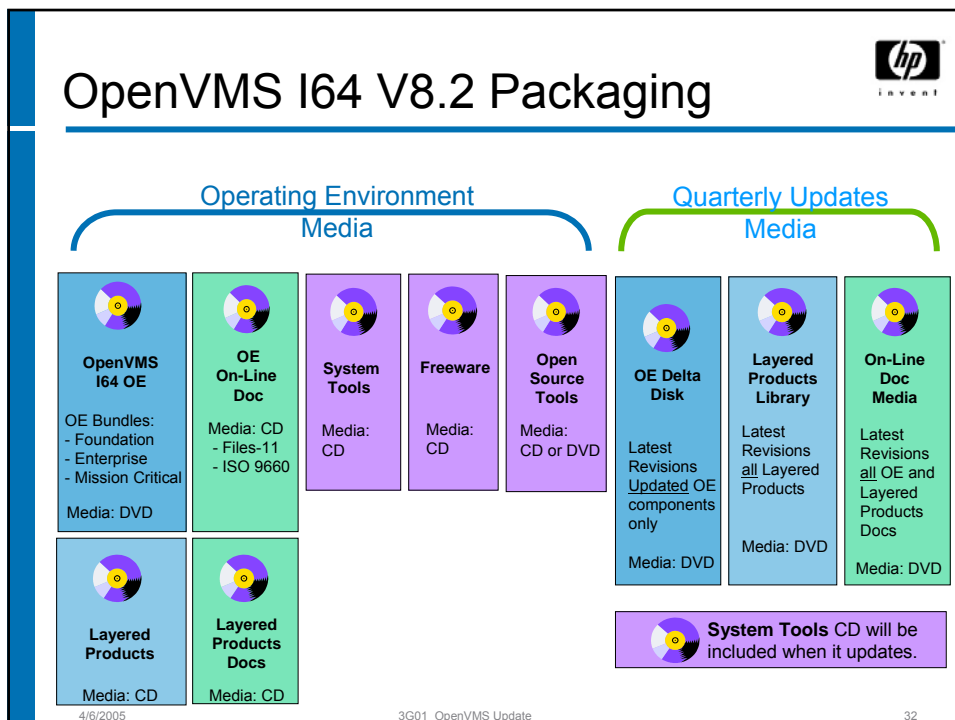
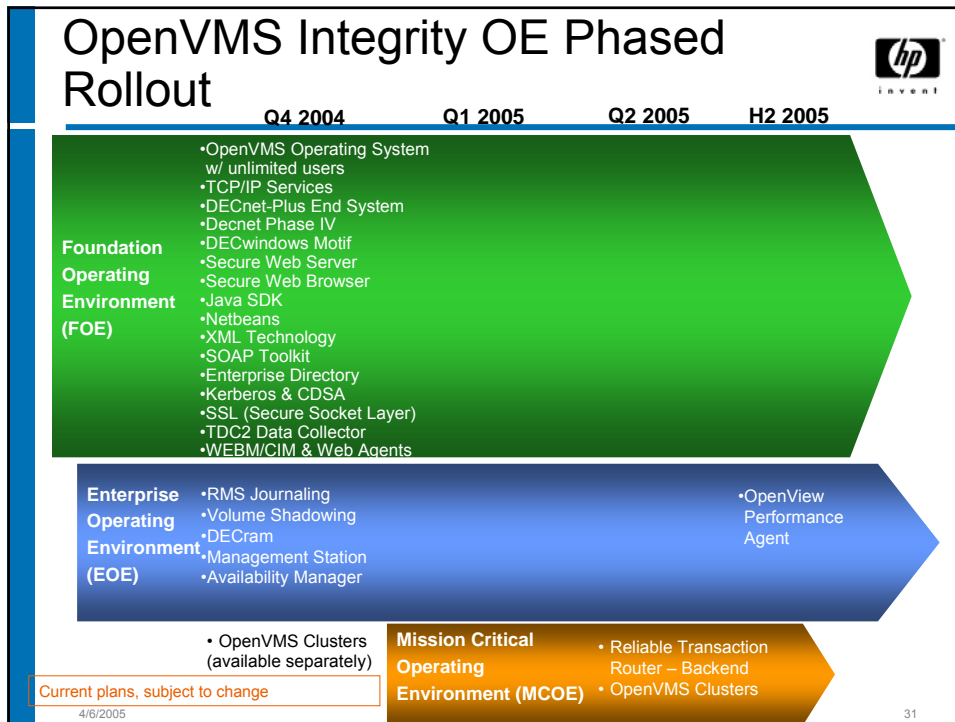
- OpenVMS Clusters
- OpenVMS RTR Backend

Note: Products listed in yellow are available as separately licensable products outside of OE package if desired.




One DVD media for all 3 OE's

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## Programming

- Infrastructure Changes (Major Release!)
- 64-Byte Resource Value Block
- New System Services

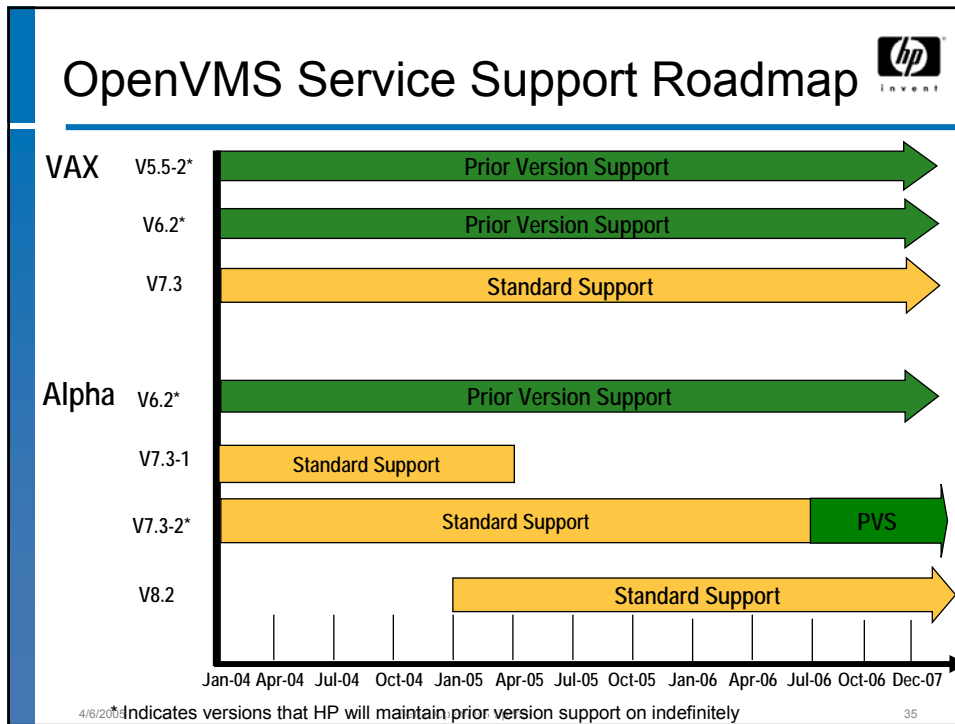
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## OpenVMS Service Support



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## Resources

- OpenVMS Homepage  
<http://www.hp.com/go/openvms>
- OpenVMS Rolling Roadmaps  
[http://h71000.www7.hp.com/openvms/roadmap/openvms\\_roadmaps.htm](http://h71000.www7.hp.com/openvms/roadmap/openvms_roadmaps.htm)
- OpenVMS Documentation  
<http://h71000.www7.hp.com/doc/index.html>
- OpenVMS Support  
[http://h71000.www7.hp.com/serv\\_support.html](http://h71000.www7.hp.com/serv_support.html)

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Questions?

