

# Open Source, e-Business and Integration Update

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# Agenda

- eBusiness and Integration Strategy
- Product Technology Update
- Web Services and Integration
- Application Development Tools
- Secure Web Server, Secure Web Browser
- Java
- Third party middleware
- Open Source

# eBusiness and Integration Strategy

- Enhance the OpenVMS operating system with an infrastructure that allows application, middleware, and data integration in a global, multi-platform environment.
- Invest in new software technologies that help customers extend their computing environments to meet business needs.
- Develop new products and offer IT solutions by working with partners and the open source community.

# OpenVMS and Web Services Technologies

- XML-C
  - Updated versions of Apache Xerces (2.8) and Apache Xalan (2.7)
  - Alpha version – available now
  - Integrity version - available in FT now. Release in October 2007
- SOAP Toolkit
  - SOAP Toolkit V2.0 (Alpha and Integrity) based on Apache AXIS 1.1
  - Coming soon - FT version available based on Apache AXIS2 (Integrity only)
- UDDI Client Toolkit
  - Based on UDDI4J 2.0.2
  - Alpha and Integrity

# Web Services Integration Toolkit (WSIT)

- WSIT provides tools to support the encapsulation of a 3GL or ACMS application into a Javabean.
- Will generate sample callers of the Javabean, such as a simple JSP page or a plain old Java object.
- Designed to call non-Java (e.g. C, Cobol, BASIC, Fortran) applications from Java applications.
- Java offers platform neutrality and ease of use.
- Rewriting older non-Java applications is difficult, time consuming and expensive. Using WSIT, a developer can encapsulate older application libraries and expose them as Java Classes.

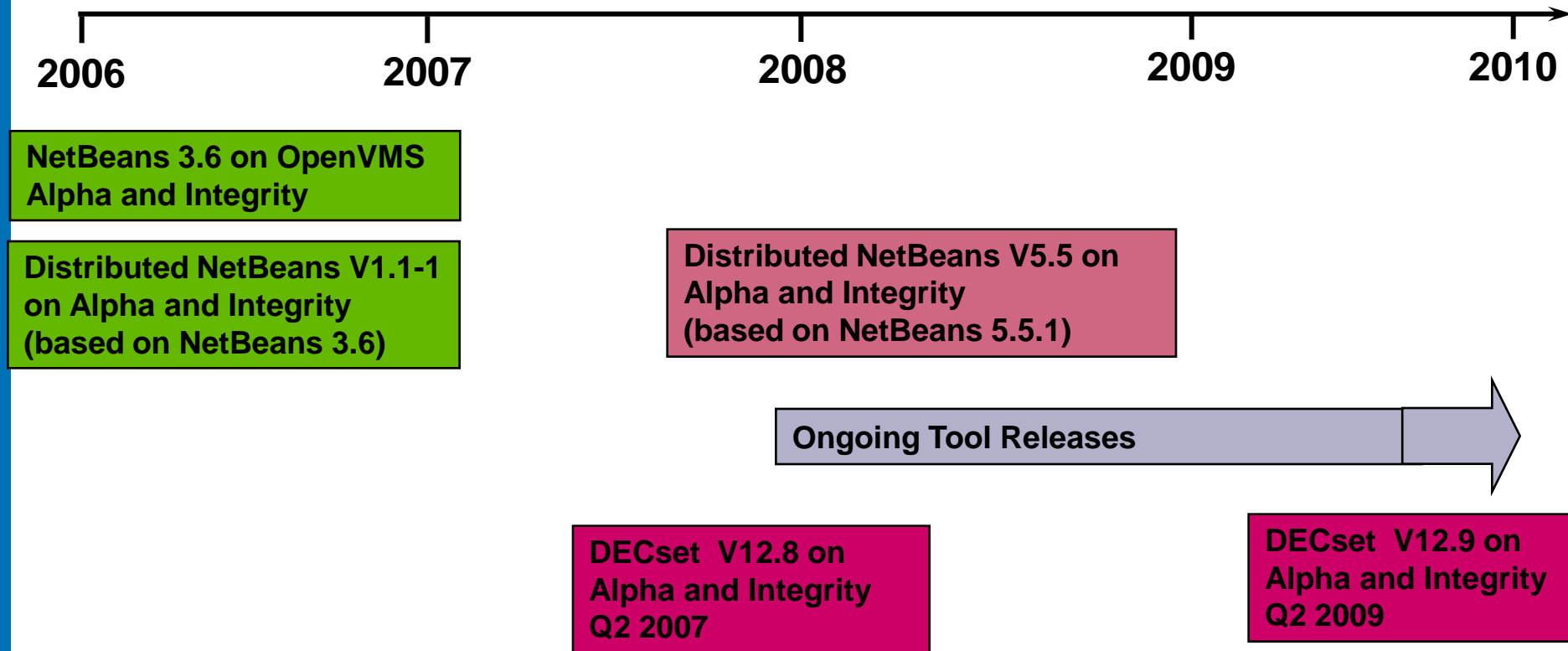
# Web Services Integration Toolkit (cont)

- **Supports Alpha and Integrity**
- **OpenVMS Technical Journal article by David Sullivan**  
**<http://h71000.www7.hp.com/openvms/journal/v7/>**
- **Current released version is 1.2, available for download on website**
- **Current FT version is T2.0 (release in October)**
- **Planning underway for V3.0**
  - **Generate a sample AXIS2 web service caller for the encapsulated app**
  - **A monitor tool to manage WSIT application**
  - **More! Plus, we're taking requests!**

# Application Development Tools

- Distributed NetBeans for OpenVMS
  - Supports remote development for OpenVMS from a non-VMS desktop
  - Supports 3GL languages as well as Java et al
  - Distributed NetBeans V1.1 – current supported version
  - Distributed NetBeans T5.0
    - FT2 – in field test and available for internet download
    - FT3 – awaiting dependencies, by end of year
  - Media Distribution
    - Internet Download
    - eBusiness CD for OpenVMS Alpha
    - FOE for OpenVMS Integrity
    - OpenVMS Delta Disk for OpenVMS Integrity
- DECSet –
  - V12.8 (3/2007) CMS, DTM, LSE/SCA, MMS, PCA
  - Working on next version

# Application Development and Deployment – Tools

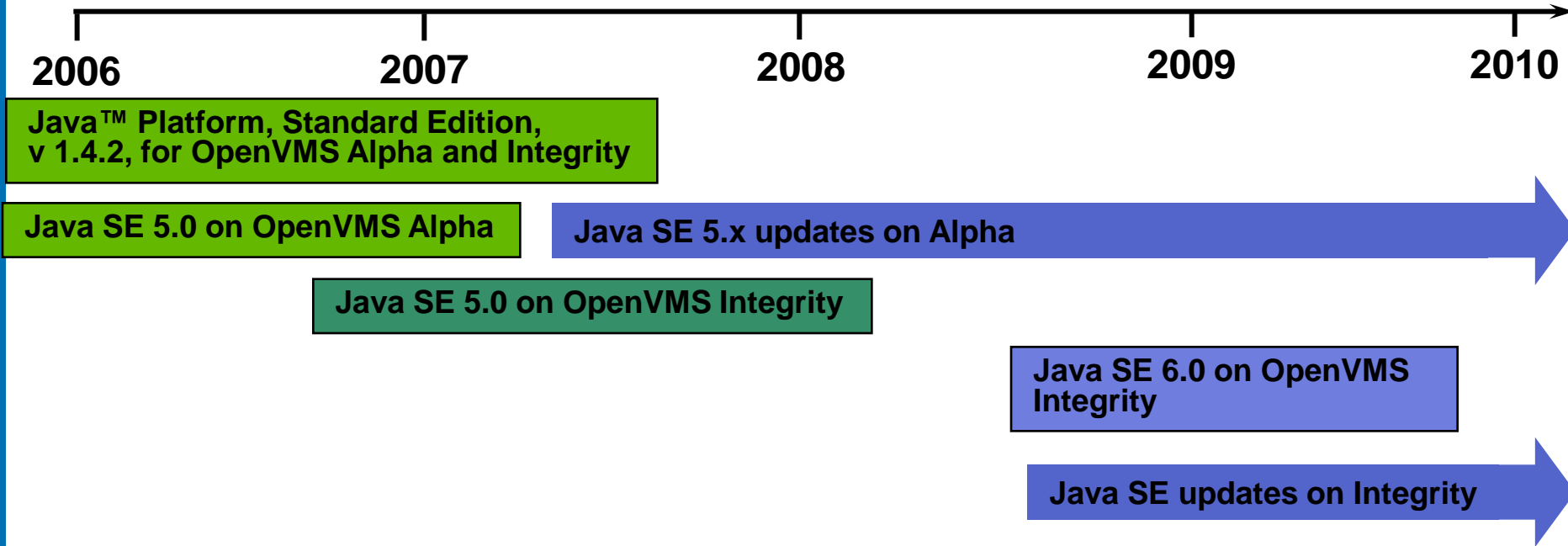




# Java for OpenVMS

- Current releases
  - Alpha (OpenVMS 7.3-2+)
    - 1.4.2-6 (based on Sun's 1.4.2\_13)
    - 5.0-3 (based on Sun's 1.5.0\_10)
      - Includes JPDA and Java Web Start
  - Integrity (OpenVMS 8.2-1+)
    - 1.4.2-3 (based on Sun's 1.4.2\_09)
    - 5.0-2 (based on Sun's 1.5.0\_10)
- Future releases
  - Alpha
    - 1.4.2-7 based on 1.4.2-15 (Fall 2007)
    - 5.0-4 - target date Fall 2007 (based on Sun's 5.0\_11)
  - Integrity
    - 1.4.2-7 based on 1.4.2-15 (Fall 2007)
    - 5.0-3 - target date Fall 2007 (based on Sun's 5.0\_11 + new Hotspot sources)
      - Boosts SPECjbb2005 performance on OpenVMS I64 by around 20%,  
YMMV
    - 6.0 – target 2H2008, 8.3+

# OpenVMS eBusiness and Integration Technologies



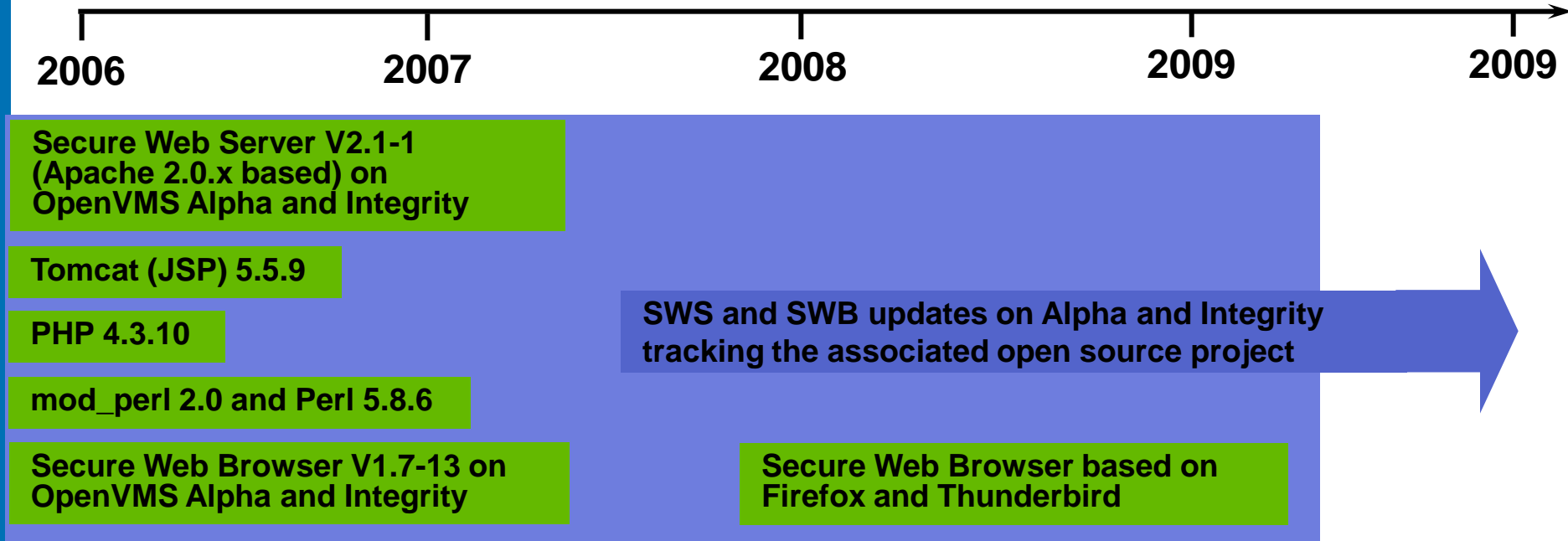
# Secure Web Server and Scripting

- SWS is based on Apache server
- Patch kits released in December 2006
- All on Alpha and Integrity
  - SWS 2.1-1 (Apache 2.0.52)
  - CSWS\_PHP 1.3 ECO1 patch kit (mod\_PHP 4.3.10)
  - CSWS\_Perl 2.1 ECO1 patch kit (mod\_Perl 2.0.1)
  - Perl for OpenVMS 5.8.6 ECO1 patch kit
  - CSWS\_Java 3.0 ECO1 patch kit (Tomcat 5.5.9)
- Future directions
  - SWS 2.1-x is the functional replacement for SWS 1.3-x and SWS 2.0
  - Future enhancements and new features will be in SWS 2.1-x and later
  - Looking at PHP5
  - New kits and patch kits created as needed

# Secure Web Browser

- Current version:
  - SWB 1.7-13
    - Based on Mozilla 1.7.13 (fixed security vulnerabilities)
    - June 2006
    - Alpha and Integrity
  - ChatZilla 0.9.69 (bundled with SWB)
- Next Mozilla
  - SeaMonkey - includes mostly security fixes
  - Will be update to Mozilla 1.7-13
- Future releases:
  - Firefox – in development now
  - Mail client based on Thunderbird (in the future...any interest?)

# OpenVMS eBusiness and Integration Technologies



# OpenVMS eBusiness and Integration Technologies – 3<sup>rd</sup> Party

- TIBCO RV (Rendezvous) V7.5.2 – on Integrity
- IBM WebSphereMQ (aka MQseries)– V5.3 available now. V6.0 is planned for both Alpha and I64 available in 2007
- BEA Weblogic – 8.1 SP3 on Alpha and Integrity
  - No new versions currently planned, we're plan JBOSS as alternative
- BEA MessageQ - Mature product, no new versions, but keep current on new operating system versions – on Integrity
- 2AB Orb2 (CORBA) – on Integrity
- WRQ Reflections and VeraStream – on Integrity
- Attunity Integration Suite – on Integrity
- Compuware Uniface – on Integrity

# JBoss

- JBoss 4.0.5.ga
  - Integrity only
  - Installation docs and command procedures available from John Egolf (john.egolf@hp.com)
  - JBoss 4.0.5.ga cert tests pass with 98% success rate.
  - Currently testing JBoss 4.2.1 using OpenVMS V8.3, JDK 5.0, Ant for OpenVMS
  - Support plans are being developed
    - Redhat interested in adding OpenVMS to supported operating systems.
    - OpenVMS preliminary plans include certifying JBoss Enterprise Edition, to provide JBoss to OpenVMS customers for production use.
    - Likely support plans include having HP provide L1 and L2 support. RedHat provides L3 support.

# MySQL

- Open source DBMS...owned by MySQL AB
- Written in C/C++
- 5.1-11 available on OpenVMS web site
  - Contributed by Jean-Francois Pieronne
- We're working on it...
  - Adding some of the client pieces
  - Integrity-only for new stuff
  - Fixing bugs, making improvements
    - ISAM database engine bug
    - 64-bit pointers (use large memory spaces, better caching)
    - OpenSSL support for secure db connections
    - Contact Jim Lanciani if you'd like to FT the fixes ([Jim.Lanciani@hp.com](mailto:Jim.Lanciani@hp.com))



# PHP

- PHP: Hypertext Preprocessor
- MOD\_PHP (in SWS)
  - V1.3 ECO 1 (9/2006)
  - Based on PHP 4.3.10
- We're investigating PHP 5 for OpenVMS ... any interest?

# Ant

- Another Neat Tool!
- PCSI Kit available 1.7-0 for internal FT
- Passes a large percentage (>90%) of the Ant test suite
- Alpha and Integrity
- Will be required by Distributed NetBeans and WSIT (eventually)
- For external FT, contact Jim Lanciani (Jim.Lanciani@hp.com)

# Other Open Source

- Python - 9/2007 V2.5.1 (new!), V2.5.0 too
- Perl
  - CSWS\_Perl 9/2006 (V2.1 ECO 1)
  - Perl 9/2006 (V5.8.6 ECO 1)
- GNV – 1/2007 V2.1
- GnuPG – 6/2007 V1.2-4, also available for VAX
- SSL – (source kit) 9/2006 V1.3
- Others...visit  
<http://h71000.www7.hp.com/opensource/opensource.html>

# gSOAP

- Open source XML/Web Services Development Toolkit
- Written in C/C++
- Ported to OpenVMS due to question in comp.os.vms newsgroup
- Can be used in situations where WSIT is not attractive (calling web services \*from\* VMS application, for example)
- For more info: Brett Cameron (Brett.cameron@hp.com)

# Where To Go For More Information

E-Business Technology Web Site

<http://h71000.www7.hp.com/ebusiness/technology.html>

# Contacts

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