

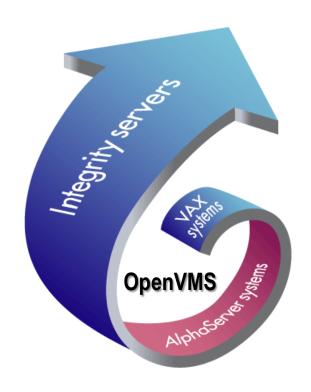
# OpenVMS: MOVING STRONGLY INTO IT'S 4<sup>TH</sup> DECADE

OpenVMS profile

What's New with OpenVMS?

Roadmap and Future Directions

**OpenVMS Customer Program** 





OpenVMS PROFILE



# HP OpenVMS MISSION-CRITICAL & SECURE COMPUTING

Hundreds of thousands of systems installed, millions of users

# OpenVMS provides core IT infrastructure for:

World's largest CPU chip manufacturer

Mobile telecom billing systems scaling to millions of users

Prominent futures and derivative exchanges worldwide

**Majority of automated lottery systems** 

**Major hospitals** 

Government offices worldwide demanding security & high availability



# Fraport AG

"We can't allow much more than five minutes of downtime, which is why we have always relied on HP OpenVMS due to its reliability, fault tolerance, and proven robust clustering capabilities."



Kay Belke Software Engineer Fraport AG (Frankfurt Airport)



# ABF-Industrielle Automation GmbH

"OpenVMS on Integrity servers provides a stable and reliable platform for our customers' mission-critical environments. OpenVMS also maximizes security and minimizes system administration, so our customers can focus on optimizing their manufacturing, assembly, material flow, and other processes—instead of maintaining their process control systems."



Günther Adelwoehrer
General Manager
ABF-Industrielle Automation GmbH



### Savant

"We started using OpenVMS back in the 1980s because of its high availability. Today, OpenVMS offers advanced features like volume shadowing between nodes to synchronously replicate data between sites and storage arrays – capabilities like this still don't exist in other operating systems available today."



Ian Gray
Technical Director
Savant



# ICAP Electronic Brokering

"We connect the largest professional foreign exchange trading community in the world, so we need to ensure our technology remains leading edge and resilient. HP OpenVMS on HP Integrity systems has given us the trading infrastructure necessary to continue delivering the high level of service our customers expect."



Rob Perez
Head of FX Development
ICAP Electronic Broking
NY, USA



# UK National Health Services Blood & Transplant

"Our experience with the OpenVMS operating system is that it is incredibly stable and reliable, and it supports the uptimes we need for a critical system. Then we saw that moving to HP Integrity servers would save operating costs, data center space, and give us better performance, reliability, and headroom for the future — there really was no downside."



Andrew O'Connor

Systems Engineering and Operations Manager

UK National Health Services Blood & Transplant



# WHAT'S NEW ON OpenVMS?



## WHAT'S NEW IN OpenVMS?

#### **Key Releases**

OpenVMS V8.4 – June 2010

- V8.4 on Integrity i2 server blades August 2010
- V8.4 on Integrity rx2800 i2 Q1 2011

20+ Product **Updates** 

- RTR v5.2
- **ABS v4.5**
- CIFS v1.1, CIFS v1.2
- OpenView Operations Agent V8.6
- ...And many more

**ISV & Partner Ecosystem** 

- 1500+ OpenVMS applications available on HP Integrity
- Over 90% of ISVs with OpenVMS applications have migrated to HP Integrity

**Integrity Adoption** Up

- HP Integrity adoption continues to be strong
- Migrations to HP Integrity span all industries

**Marketing** 

- Total Cost of Upgrade white paper from Techwise
- Brochures, data sheets
- Blogs and tweets

http://h30507.www3.hp.com/t5/Mission-Critical-Computing-Blog/bg-p/199 © Copyright 2010 H http://twitter.com/HPIntegrity



# OpenVMS CUSTOMER PROGRAM – RECENT EVENTS

#### **Events**

- US Technical Update Days
  - Conducted in Chicago, Dallas, Washington and New York
  - Close to 200 customers and partners attended the TUD
  - In-depth Technical sessions for two days
- Webinars Engineering, Partner Delivered
- User Group events in various cities
- Connect Feb'10 was OpenVMS Month
- HP European premium event Tech@Work at Frankfurt
- HPTF, Las Vegas
- HP Connect Boot camp at Nashua
- Now OpenVMS TUDs in Europe!

## OpenVMS FUNDAMENTALS TRAINING

HP Education - interactive, distance learning

HP OpenVMS customers can access OpenVMS Fundamentals training via new, interactive distance learning program

#### Online courses are:

- Instructor led
- Pre-recorded
- Self paced

Content is the same as that taught in instructor-led version, u3716s

Includes OpenVMS simulated environment for students to practice

Offers a follow-on opportunity to access HP Virtual Lab for hands-on practice in fully configured OpenVMS environment, with live mentoring from an OpenVMS expert

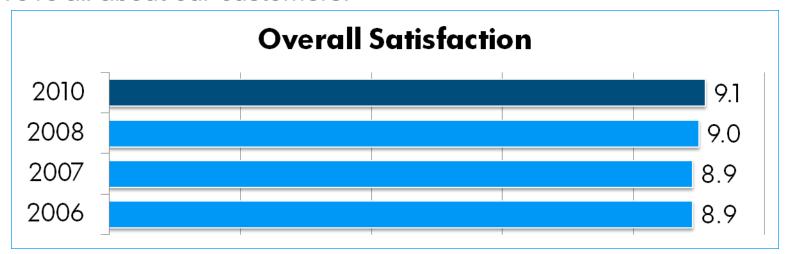
Full curriculum details on course offerings, schedule, and registration at: www.hp.com/learn/openvms

**Updated for OpenVMS V8.4** 



#### Highlights From Worldwide Customer Advocacy Survey\*

We're all about our customers!



OpenVMS continues to receives a high overall satisfaction rating

Top areas customers want OpenVMS to focus on going forward: Open Source, System Management Tools, Development Tools and Performance Enhancements

2006-2008: HP user group world wide survey 2010: HP Connect OpenVMS Customer Survey



# ROADMAP & FUTURE DIRECTIONS



CONVERGED INFRASTRUCTURE



## Mission-Critical Customer Challenges

Financial Services
Every minute of
downtime = a minute of
lost revenue!



Manufacturing and Distribution Production comes to grinding halt



Healthcare
Patient outcomes
depend on 24x7
access to data



Public Sector and CME Customer retention and fraud detection at risk



No tolerance for downtime

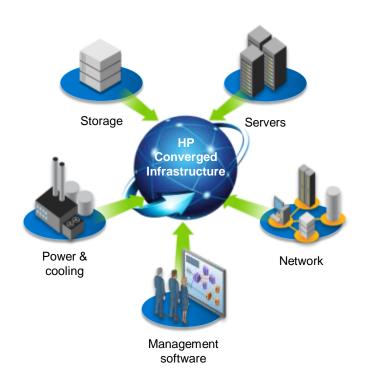
Increasing SLAs with decreasing budgets

Islands of legacy apps and monolithic systems



# The First Mission-Critical Converged Infrastructure

New Integrity systems optimized for the converged infrastructure





A common, modular architecture that simplifies, consolidates, and automates everything

A mission-critical infrastructure delivering the highest levels of reliability and flexibility



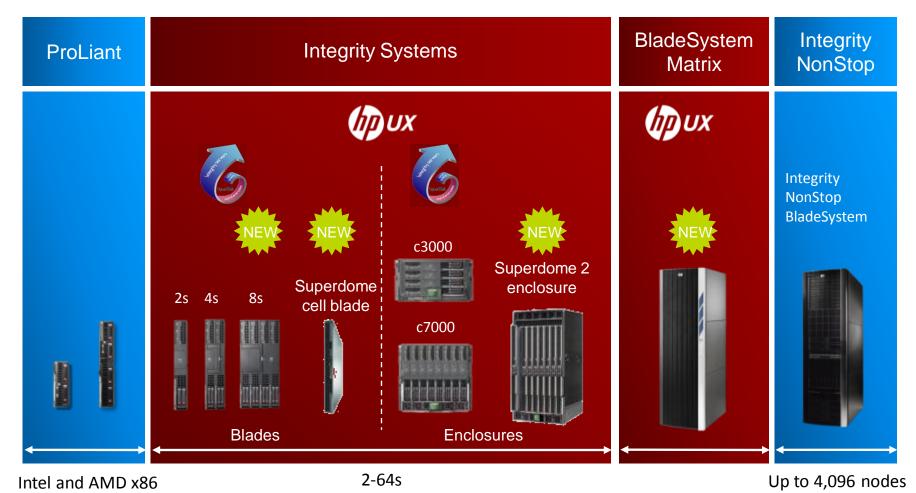
# Introducing the Revolutionary Blade Scale Architecture

The first mission-critical Converged Infrastructure on the industry's #1 blade platform



#### Unified Blade Architecture from x86 to Superdome

Simplify by consolidating applications on a common platform





#### **FlexFabric**

Scale resources to meet any workload demand

Dynamically Within the Across the managed network system Blade Link Linear scaling from 2-8 sockets Matrix operating **Virtual Connect** Crossbar Fabric environment, Wire-once, changedelivered by ready connectivity Fault-tolerant Insight flexible scaling **Dynamics** 



#### OpenVMS IN A CONVERGED INFRASTRUCTURE

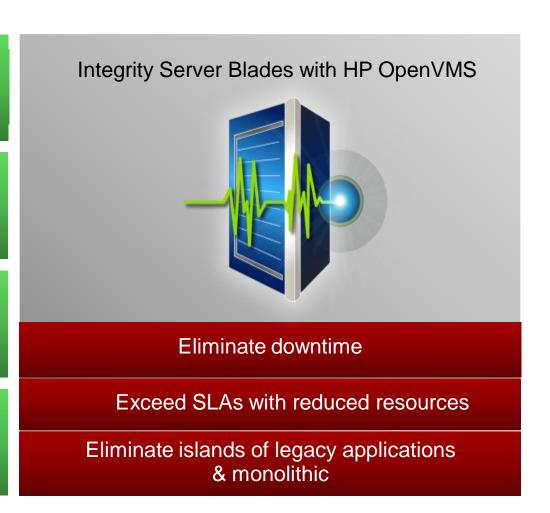
Components of Converged Infrastructure in an OpenVMS environment

Unified blade architecture supported August 2010 with OpenVMS V8.4 on BL8x0c i2

FlexFabric supported with scalable blade links & support for Virtual Connect & Flex-10 coming soon

Always-on resiliency with Integrity platform and OpenVMS high availability

Common management with support for Insight Control via HP SIM IPM, HP Insight Dynamics -VSE



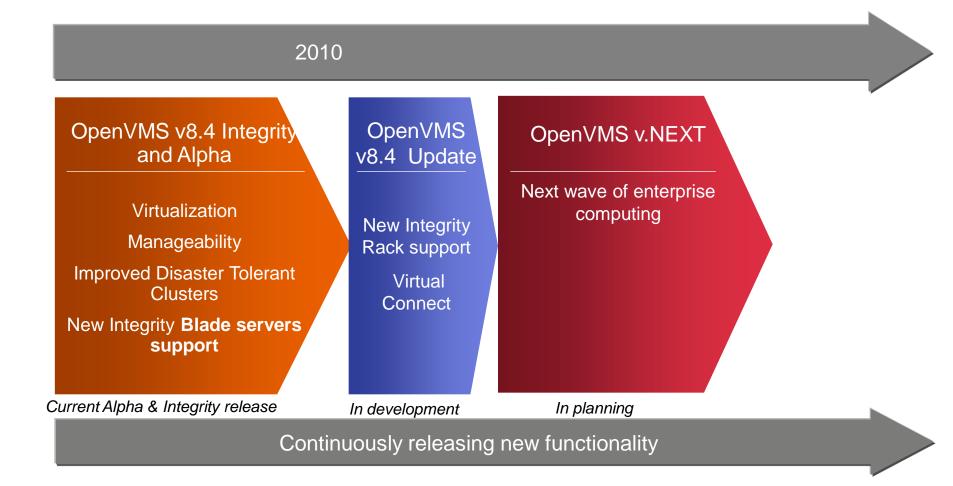


# ROADMAP



## HP OpenVMS SOFTWARE ROADMAP

Continuously delivering mission-critical solutions for over 30 years!





## OpenVMS TODAY AND TOMORROW

Continuously releasing new functionality

#### Future releases:

- New Integrity systems
- · Continued virtualization, performance, security, scalability and management enhancements
- OpenVMS V8.4 Update Future Releases:
  - New Integrity rack systems running Itanium processors
  - Virtual Connect / Flex 10 Support

#### **Current Release:**

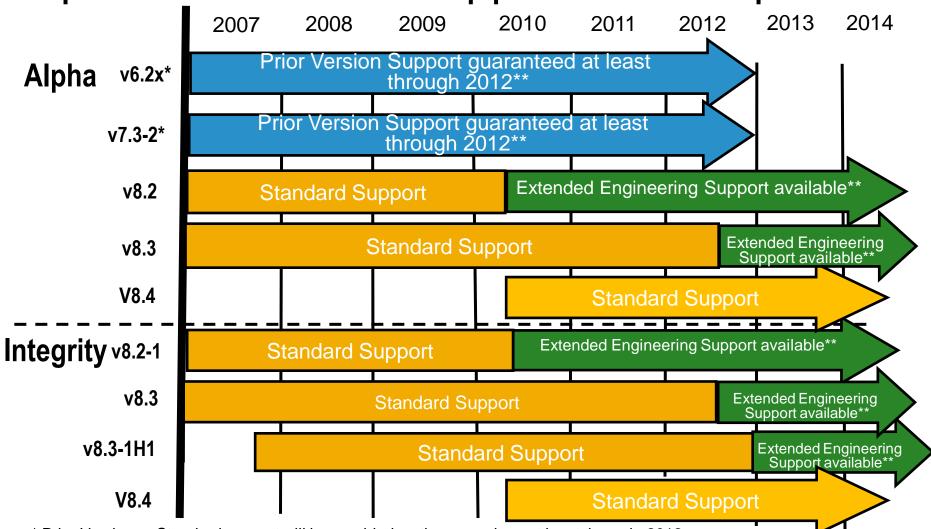
- OpenVMS V8.4 (Integrity and Alpha)
  - New Integrity blade systems running Itanium processors
  - OpenVMS as a guest operating system on HP Integrity Virtual Machine
  - Clusters over TCP/IP protocol
  - Host-based volume shadowing with up to 6-member shadow sets
  - 2 TB volumes
  - Performance enhancements

#### **Previous Releases:**

- OpenVMS V8.3-1H1 (Integrity only)
  - Intel® Itanium® processor 9100 series
  - BL860c & BL870c Blade Systems, c7000 & c3000 enclosures
- OpenVMS V8.3 (Integrity and Alpha)



## OpenVMS Service Support Roadmap



<sup>\*</sup> Prior Version or Standard support will be provided on these versions at least through 2012.



<sup>\*\*</sup> w/24 months prior expiration 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.

Extended Engineering Support will be available for additional cost. Future version shipment dates are estimates.

## OPEN SOURCE ENABLEMENT

#### We heard you

- Availability of Open Source application on OpenVMS, Version lag
- Effort to Port Open Source applications to OpenVMS and support them
- Community Engagement

Provide Hardware / Software resources to the Community to Port/Test/host Open Source applications on OpenVMS

Work with Open Source foundations/teams to support OpenVMS as a platform

UNIX portability framework



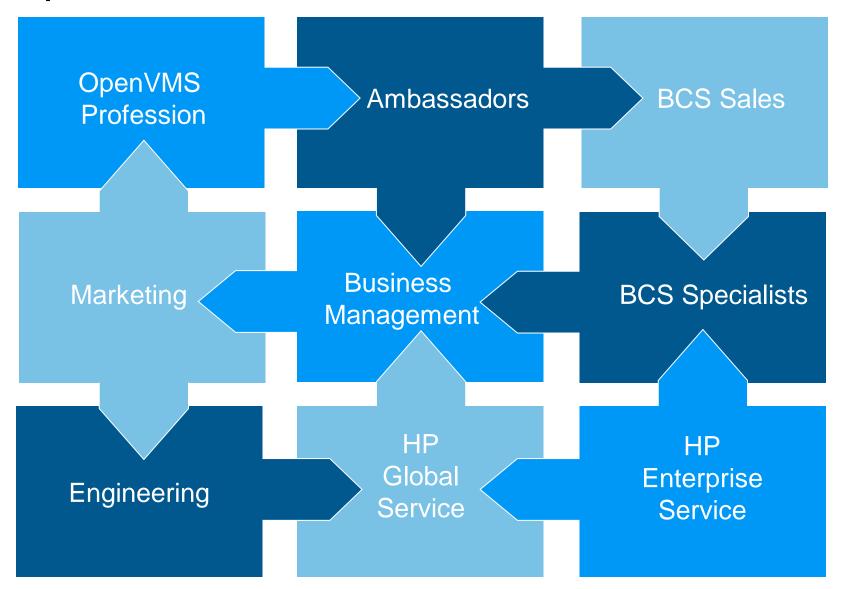
- Hardware made available
  - 26 request community in the first month
- Porting Guidelines
- Webinars
- •GNV 38 upgrade for existing components, 7 new components. Would be updated on SourceForge
- Freeware CD restructuring and Web enablement



# OpenVMS CUSTOMER PROGRAM



# OpenVMS COMMUNITY ACROSS HP





## OpenVMS CUSTOMER PROGRAMS

Nourishing our strong relationships with Customers, Partners and ISV's

- Enable Customers, Partners & ISVs
  - Connect HP OpenVMS Experts to customers/partners on long term basis
  - Assist field deliver quality OpenVMS technical solutions
- Enable Developer & Solution Partner Program (DSPP <u>www.hp.com/go/dspp</u>)
- Close working with universities through EDU & Hobbyist program
- Access to HP Technologies through Customer Lab (similar to PTAC labs)
  - Porting and Migration assistance
  - Technical Consulting
  - Privileged Technology Previews
- Connect with OpenVMS eco system
  - Technical Update Days (TUD), Technology podcasts, Webinars Engineering
     & Partner Delivered, HP Connect, VMS Tech Journal, OpenVMS.org
  - Designed for both business and technical audience
- OpenVMS Ambassadors program
  - Direct customer information shaping long term product development
- E-mail: <u>OpenVMS.Programs@hp.com</u>



## OpenVMS CUSTOMER LAB

- Do you need to know exactly how fast your OpenVMS application will run on Integrity servers?
  - The OpenVMS Customer lab is the answer
- The perfect place to establish the proof points you need to size your OpenVMS solutions on Integrity
- The Customer Lab personnel have already assisted hundreds of Customers and Partners in migrating to Integrity
- For more info, please see<a href="http://h71000.www7.hp.com/custlab/index.html">http://h71000.www7.hp.com/custlab/index.html</a>



"We managed to reach a max throughput of 3300 private car insurance quotations per minute, each generating up to 50 Insurer results totaling 165,000 complex calculations which is approximately 4 times the maximum load any of our live system currently reach.

The use of different hardware configurations (in the OpenVMS Customer Lab) allowed us to test various deployment options and see the effects of each, comparing single larger systems to multiple smaller system configurations.

The HP OpenVMS customer lab sessions and the results thereof have assisted CDL in gaining new clients and specifying system upgrades for existing clients more accurately.

Robert Trueman
Senior IT Engineer
CDL Internet Services Ltd





# HP INTEGRITY SERVERS WITH OpenVMS PROVIDE A SMOOTH TRANSITION



Compiled approximately 500K lines of code, and had the core applications running in around 6 hours



Porting our 1.5 million lines of code to OpenVMS on Integrity required no code changes at all



500,000 lines of Pascal code, only changing 5 lines of code



OpenVMS on Integrity servers provides a stable and reliable platform for our customers' mission-critical environments



Only modified 3% to 5% of code in migration to Integrity





Thank You.

