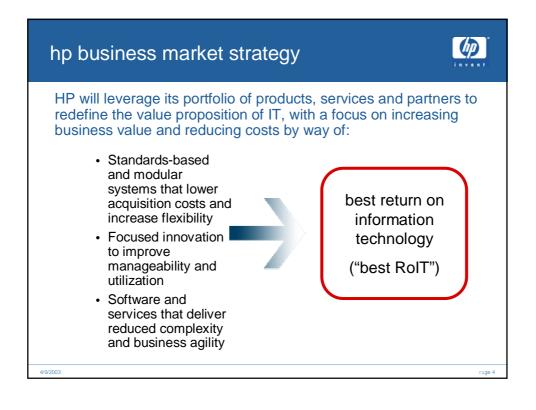
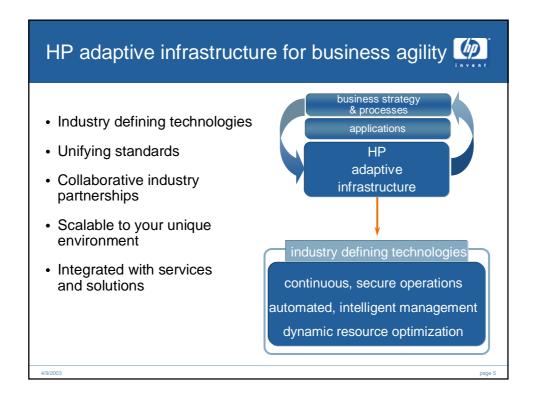
OpenVMS Strategy 2A01 April, 2003 DECUS-München

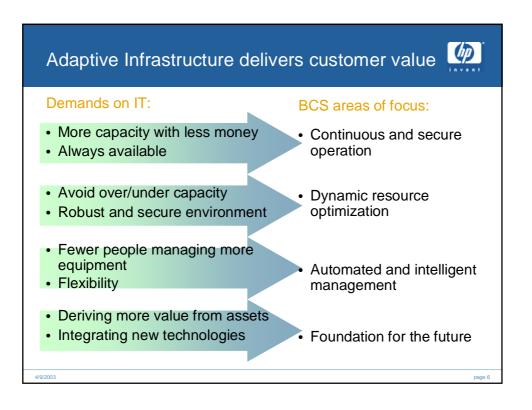
Mark Gorham
Vice President
OpenVMS Systems
Hewlett-Packard Corporation

	today	future
processor technology	PA-RISC Itanium® processor family Alpha MIPS®	Itanium® processor family
server platform	HP Servers HP NonStop Servers HP e3000 Servers HP AlphaServer Systems HP Blade Server	HP Servers HP NonStop Servers HP Blade Server
operating system	HP-UX HP Tru64 UNIX® HP MPE/ix Linux® HP NonStop Kernel HP OpenVMS	HP-UX (with Tru64 UNIX® features) Linux® HP NonStop Kernel HP OpenVMS Windows® /64



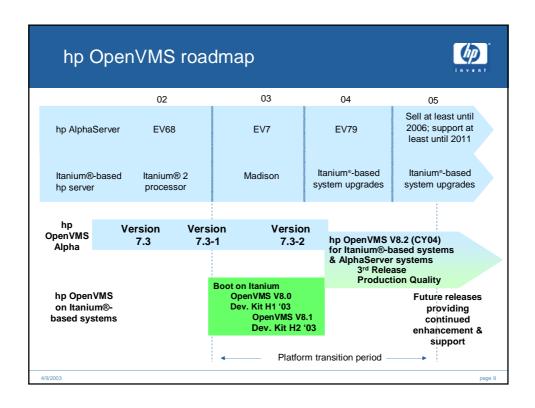






The adaptive infrastructure and our offering		
Areas of focus:	VMS Solutions From HP And Our Partners:	
Continuous & secure operations	OpenVMS Clustering Security Excellence Mission Critical Quality Superior Services Solutions with Partners	
Automated & intelligent management	Clustering Manageability	
Dynamic resource optimization	Mixed Architecture Clustering Partitioning continuum ENSA Extended	
Foundation for the future	Itanium architecture J2EE and .NET infrastructure Customer 1st program	





OpenVMS on Itanium at Cebit 2003

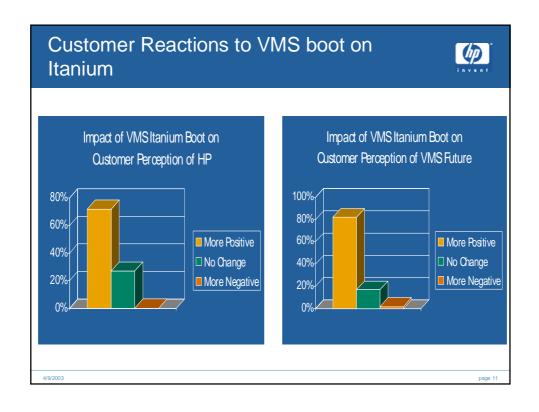


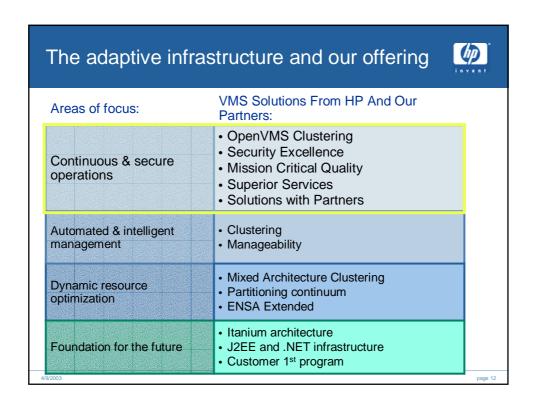


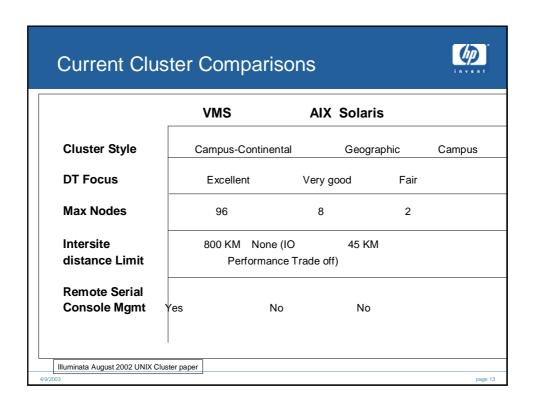
The first public showing of OpenVMS on Itanium occurred at Cebit 2003, Hannover, Germany on March 10^{th} , 2003

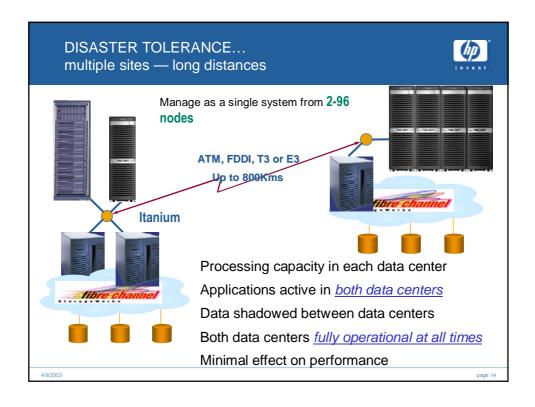
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hp OpenVMS "Security by design"



From the Start

- Security built in to the O/S no add on security.
- First commercial "C2" O/S VAX/VMS V4 (1988)
- •Certificate "C2" & "B1" in 1993
- •Security encompasses the entire cluster and certified! (1998 RAMP)

Now

- Supporting new Industry Standards
 - •OpenSSL
 - •Kerberos
 - •CDSA
- •Ready for new evaluations and standards
 - •DII COE
 - •ITSEC
 - •HIPAA

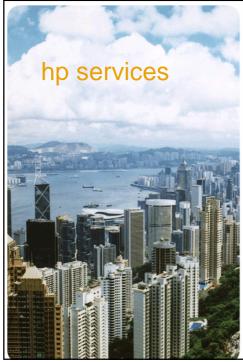
Future

- •Enterprise wide security external authentication for:
 - •LDAP
 - •Kerberos
 - •User defined
- •eBusiness security

DEFCON 9 Winner July 2001 Cool and Unhackable

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Market leader in the following

- #1 mission-critical infrastructure services
- #1 services for open IT environments
- #1 enterprise-ready Microsoft integration and support services

#3 in IT services

The industry's largest channel partner network

- 105 Response and Operations Centers worldwide
- 80 customer education centers
- 15 SAP/HP Competency Centers
- 65,000 service professionals with unmatched technical expertise in 160 countries:
 - 18,000 UNIX-experienced engineers
 - 5,300 experienced OpenVMS engineers
 - 5,000 Microsoft ® certified engineers23,000 Microsoft-trained specialists
 - 1,100 certified Cisco engineers
 - 4.500 experienced Cisco engineers
 - 2,100 project management professionals

OpenVMS Vertical Solutions





Finance

- Capital Markets: Wall Street Systems, Inc., Rolfe and Nolan, OMR, Deutsche Börse, OM Technology, Sema Capital Markets, Computershare
- Retail Banking: Sanchez, Real Solutions, ABSL
- Wholesale Banking: Montran, GIFTS, Logica

- Billing: TelesensKSCL
- Billing, SMS: Sema Group
- · SMS: CMG
- Cable and Satellite Television: Convergys Solutions, Ltd.

Healthcare

- Clinical and management information systems: Cerner
- Billing, scheduling, clinical systems: IDX
- Clinical, financial and decision support Siemens Medical Systems (SMS)

Government

- Aircraft analysis, including modeling and simulation: Lockheed Martin
- JointStars: Northrop Grumman:
- Military Training and Planning, Disaster planning: BCD Modeling
- Simulation Middleware: MAK Technologies
- **Automated Lottery Systems**: ESSNET, GTECH, Scientific Games

Manufacturing

- **Semi-conductor MES:** Brooks-PRI Automation, Applied Materials
- Pharmaceutical, Clinical Research Data Management: Cincom Systems
- Manufacturing Resource Planning: CA
- Utilities power brokering: OM Technology



OpenVMS Databases

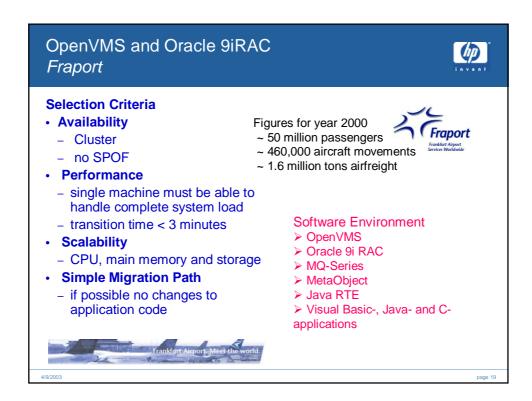




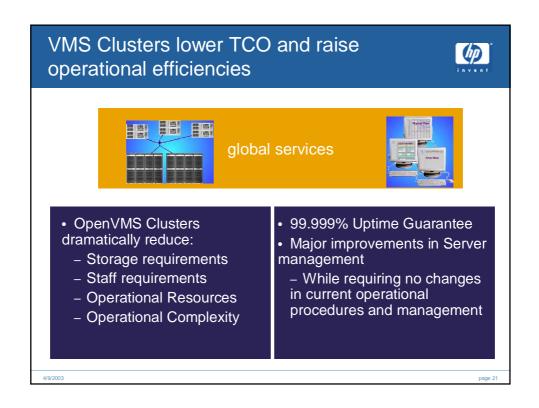
- Oracle 9iRAC
 - Preconfigured Systems
- Oracle Rdb
- Oracle 10i
- HP Oracle Web Shelf
- Cache

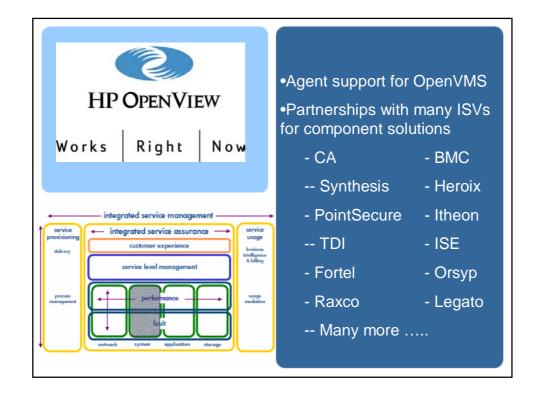


Ingres

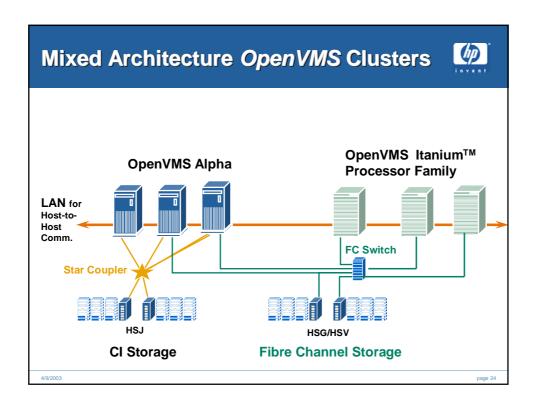


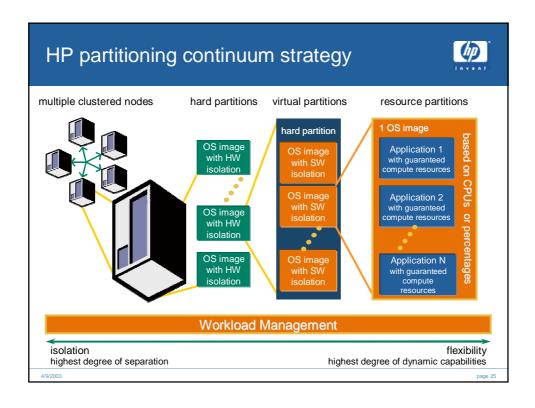
The adaptive infras	structure and our offering	(p)
Areas of focus:	VMS Solutions From HP And Our Partners:	
Continuous & secure operations	OpenVMS ClusteringSecurity ExcellenceMission Critical QualitySuperior ServicesSolutions with Partners	
Automated & intelligent management	Clustering Manageability	
Dynamic resource optimization	Mixed Architecture Clustering Partitioning continuum ENSA Extended	
Foundation for the future	Itanium architecture J2EE and .NET infrastructure Customer 1st program	

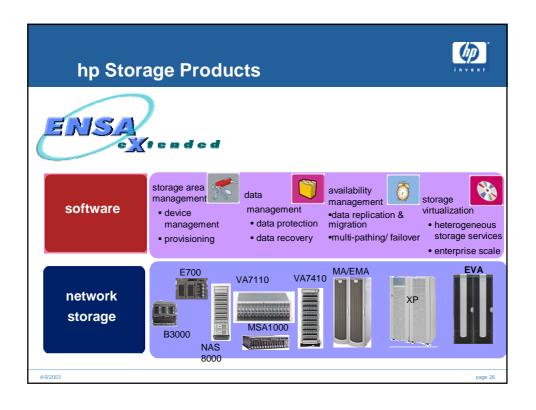




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Storage on OpenVMS Full Support of ENSA

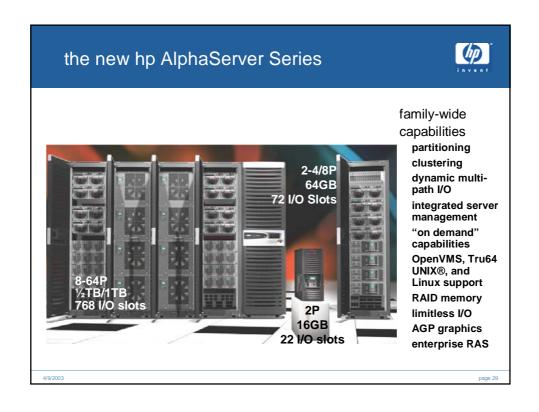


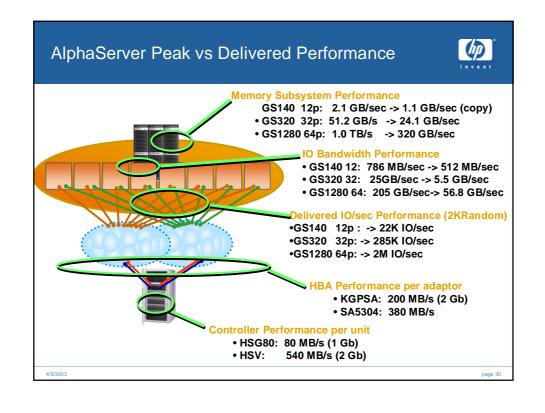
New Enterprise Storage Management products for OpenVMS

- •MSA1000 Q2 2003 low cost fiber storage
- •DRM support for EVA platforms H1 2003, 2004
- •Investigating Virtualization (SV3000, VersaStor Adaptor)
- •Legato Networker (Q4 2002)
- •HP OpenView Data Protector Q3 2003
- •EVM, SAM H2 2003

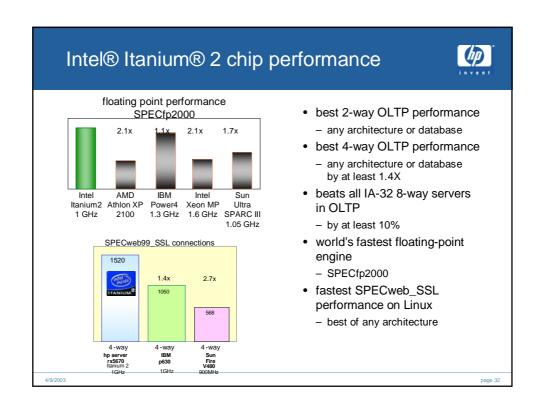
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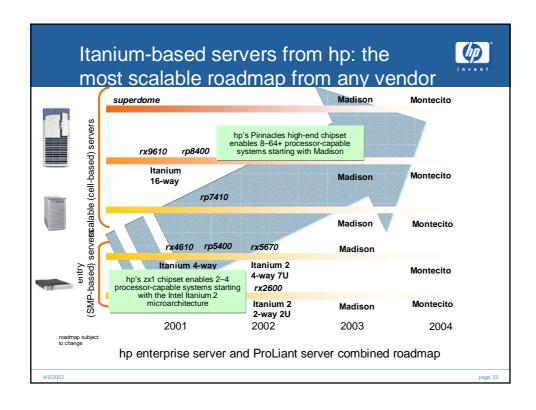
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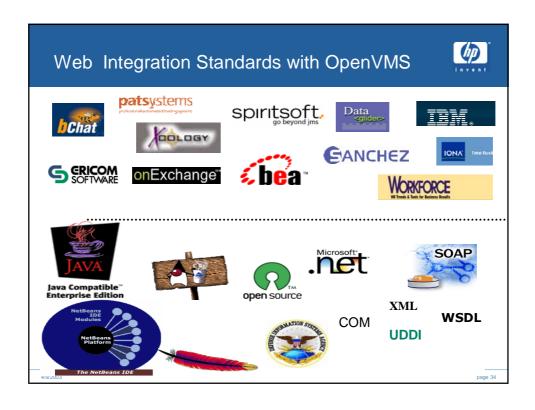




Running out of capacity on existing system. Running out of capacity on existing system. Solution based on Cerner Millenium software Replace 10 CPU GS140 with 8 CPU GS1280 Performance increase of up to 500% over previous GS140 Memorial Hermann GS148 WAY EVET GS08 WAY CST00 GS160 (Te WAY EVER GS100 (Te WAY EVE







New Web Integrations Standards for OpenVMS



Shipping in 2003

- Secure Web Server V1.4, V2.0 (based on Apache 1.3.x, 2.0)
- XML V1.1
- SOAP Toolkit V1.1
- Secure Web Browser V1.2
- Java Software Development Kit (SDK) v 1.4.0, 1.4.1
- · NetBeans 4.0
- COM V1.4
- · Attunity Connect 4.0 "On Platform" Package
- Enterprise Directory V5.3
- · BridgeWorks V2.2

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Customer first program



- The world's best customer continuity programs
 - free architectural workshops
 - white papers, solutions guides
 - web-based training, newsletters
 - symposia, developers' conferences
 - porting tools, development kits
 - partner resources, loaner programs

- Evolve at your own pace
 - a choice of technology roadmaps
- Rich technology destinations
 - next-generation Itanium architecture
 - robust operating environments: HP-UX (with Tru64 functionality), OpenVMS, Linux, Windows

easiest, lowest cost path to the future

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Training future OpenVMS resources



- · CSLG: 120 educational institutions
- VMS Free License Program: 131 educational institutions
- · OpenVMS Boot Camp
- HP ETS, HP OpenWorld, HP Interex
- OpenVMS Advanced Boot Camp
- Updated Courses
 - 2,479 Attended VMS Training Courses WW
- · OpenVMS Certification Program
- New Digital Press Books
 - Apache, Internals, VMS for beginners, Clusters, Security, Disaster Tolerance, Oracle, OpenVMS and Linux Interoperability, System Management...
- OpenVMS Technical Journal returns!

•HP North American training partners

- •Bruden Corporation
- •Mind IQ
- •The Parsec Group
- •Institute for Software Advancement

•HP EMEA training partners

- •Global Knowledge (UK, Ireland, France, Netherlands, Italy)
- •Onsite Computer GmbH, GFN (Germany)
- •HOST Computer Services (UK, Ireland, EMEA)
- •Europe Train.& Ed Center (EMEA)
- •Cornerstone (Sweden)
- •CRONOS (Belgium)

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VMS visibility improves



When it comes to interoperability, HP and BEA provide a complete heterogeneous J2EE platform for distributed applications and the integration of legacy and .NET environments. And we do it across multiple platforms and operating systems, including HP-UX, OpenVMS, NonStop Kernel, and Tru64 UNIX. We do it on Itanium 2-based systems, and we do it on Windows 2000, Windows NT and Linux. BEA's WebLogic Server is available on all of HP's key platforms and operating systems.

BEA eWorld 2003 — Carly Fiorina Orlando, Florida - March 3, 2003

It is already well on its way to being ported to IA-64. We will continue to support it on IA-64. It is a very special class of operating system. We are not planning to do anything else other than to continue supporting this environment, as well as the 450,000 users around the world that are on this. So we are going to maintain it and make it run very well on Itanium. The same [is true] with the Non-Stop environment. It currently runs on the MIPS chip. It will be migrated to IA-64 as well.

Peter Blackmore responding to a VMS question from a Computerworld (US) reporter - March 26, 2003

They (our customers) can have a platform that does more than just HP/UX. It also runs Windows, Linux and OpenVMS. This is my baby....

Scott Stallard introducing the Itanium based HP Superdome at the Intel Developer Forum, San Jose, California - February 18, 2003

> Hewlett-Packard engineers on Friday got the OpenVMS operating system up and running on an Itanium-based computer, a crucial step to ensuring the venerable OS doesn't suffer the fate of many of its shorter-lived contemporaries.

Stephen Shankland Staff Writer, CNET News.com - February 3, 2003

OpenVMS Marketing - H1 2003





upgrade to next generation hp AlphaServer systems and enjoy:

- Higher availability and improved system utilization
- Improved performance (4 to 10 times better performance than earlier AlphaServer 8400 systems)
- Simplified management with lower support cost
- · Increased flexibility and smaller footprint



Customer Success with Alpha EV7 Systems



"We are absolutely impressed by the performance that the new AlphaServer GS1280 with Open/MS delivers for our (Wall Street Systems) banking application. Timely end of day roll up is a challenge for many financial operations. The GS1280 dramatically accelerates this process and cut the time required in half. That's important!"

Karin Spevak
Manager, IT
Financial Markets Information Service
WAVE Solutions Information Technology GmbH.,
a Bank Austria Creditanstalt company

"As a long-time customer, we are very excited about the new AlphaServer technology and the future we have with HP," said Gary Carter, director of ITS production for Dollar Rent-A-Car Systems, the industry leader in leisure rentals. "We put great demands on our AlphaServer systems. They handle some 10 to 20 million transactions or queries a day on our Oracle databases. The new AlphaServer systems will give us the increased performance and scalability needed to continue to grow our business and better serve our customers as we

develop new applications and deliver new funcionality.

Gary Carter Director of ITS production Dollar Rent A Car Systems, Inc





"We are very impressed with the new AlphaServer system because it provides a secure, resilient and powerful path forward that protects and builds on our application investments. The advances in redundancy, memory bandwidth and I/O capabilities delivered by the new distributed mesh architecture, will allow us to meet our growing user requirements by consolidating very large and powerful SMP configurations in an easy to manage, single system."

Gerd Koebschall Head of Xetra/Eurex Operations Deutsche Boerse Systems



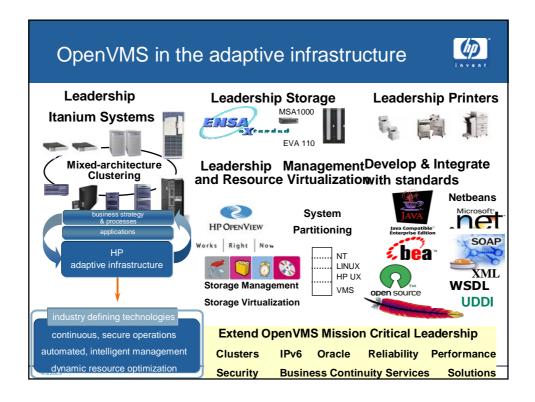
"We are very impressed with the powerful new AlphaServer systems. The advances in redundancy, memory bandwidth, and I/O capabilities delivered by these new systems, will give our clients even faster access to the information they need to make better business decisions, while allowing us to reduce our cost and system complexity by consolidating our operations on a very powerful, easy to manage, configuration that is fully compatible with our existing applications investment."

Stacey Gelman Chief Product Officer Factiva a Reuters, Dow Jones Company



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Focused on making you successful



- Immediate benefit by simply integrating new systems into existing environments
- Choose from a full range of customizable service offerings to satisfy even the most demanding needs
- Participate in unprecedented customer guarantee and trade-in programs

"HP clearly understands that it's the whole solution including system, applications and ultimately business results that matter to us. More than half a year prior to the product announcement, they were working closely with our software supplier (Wall Street Systems) to ensure our complete solution worked perfectly."

A partner who knows how to make your IT infrastructure work for you A partner who delivers on its promises and commitments

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