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GO INTERNATIONAL

NonStop into the Cloud (?)

Peter Hadler

NonStop Business Manager Germany



Welcome to the NonStop „HotSpot“ 2012



25 – 27 September 2012 Conference & Exhibition

Connect Germany

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Meßtechnik bei HP

Hewlett-Packard ist mit weltweit 60.000 Mitarbeitern ein führender Hersteller auf den Gebieten der Elektronischen Meßtechnik und Datenverarbeitung. Unsere Geräte und Systeme verkaufen wir überwiegend an die Industrie sowie an Forschungs- und Entwicklungsbereiche.

Zum weiteren Ausbau unserer Vertriebsaktivitäten suchen wir begeisterungsfähige neue Mitarbeiter, von denen wir erwarten, daß Sie ein Studium der Elektrotechnik, der Nachrichtentechnik oder einen vergleichbaren Abschluß nachweisen können. Eingesetzt werden Sie als

Vertriebsingenieur Elektronische Meßtechnik

Einsatzort:
Berlin

Sollten Sie bereits über **Vertriebserfahrung** verfügen, übernehmen Sie nach einem individuellen Training On-the-job die eigenverantwortliche Betreuung eines Verkaufsgebietes. Dabei sollen Sie bestehende Kundenkontakte intensivieren und Ihr Gebiet weiter zielgerichtet ausbauen. Die Beratung sowie die Lösung spezieller Kundenprobleme soll im Vordergrund stehen.

Als **Absolvent** haben Sie die Chance, sich als Stabsingenieur in Ihre neue Aufgabe einzuarbeiten. Dabei unterstützen Sie Ihre Kollegen bei der Durchführung von Produktpräsentationen sowie der Lösung von Anwenderproblemen. Außerdem sind Sie mit der Organisation und Durchführung von Kundenseminaren betraut.

Daß Sie zusätzlich ein umfangreiches Produkttraining erhalten ist für uns selbstverständlich.

Ihr Können und Engagement werden wir entsprechend honorieren. Neben gutem Gehalt, Gewinnbeteiligung und vorbildlichen Sozialleistungen bieten wir Ihnen ausgezeichnete berufliche Entwicklungsmöglichkeiten, da wir Führungspositionen grundsätzlich aus den eigenen Reihen besetzen. Den Rahmen dafür bildet eine unkonventionelle Arbeitsatmosphäre mit kooperativem Führungsstil und viel Freiheit bei der Erfüllung Ihrer Ziele sowie der Entwicklung eigener Ideen.

Haben Sie Interesse? Dann rufen Sie doch einfach Herrn Heinzelmann (040/638041) an oder schicken Sie uns Ihre Bewerbung.

HEWLETT-PACKARD GMBH, Technisches Büro, Kapstadtring 5, 2000 Hamburg 60.



HEWLETT
PACKARD

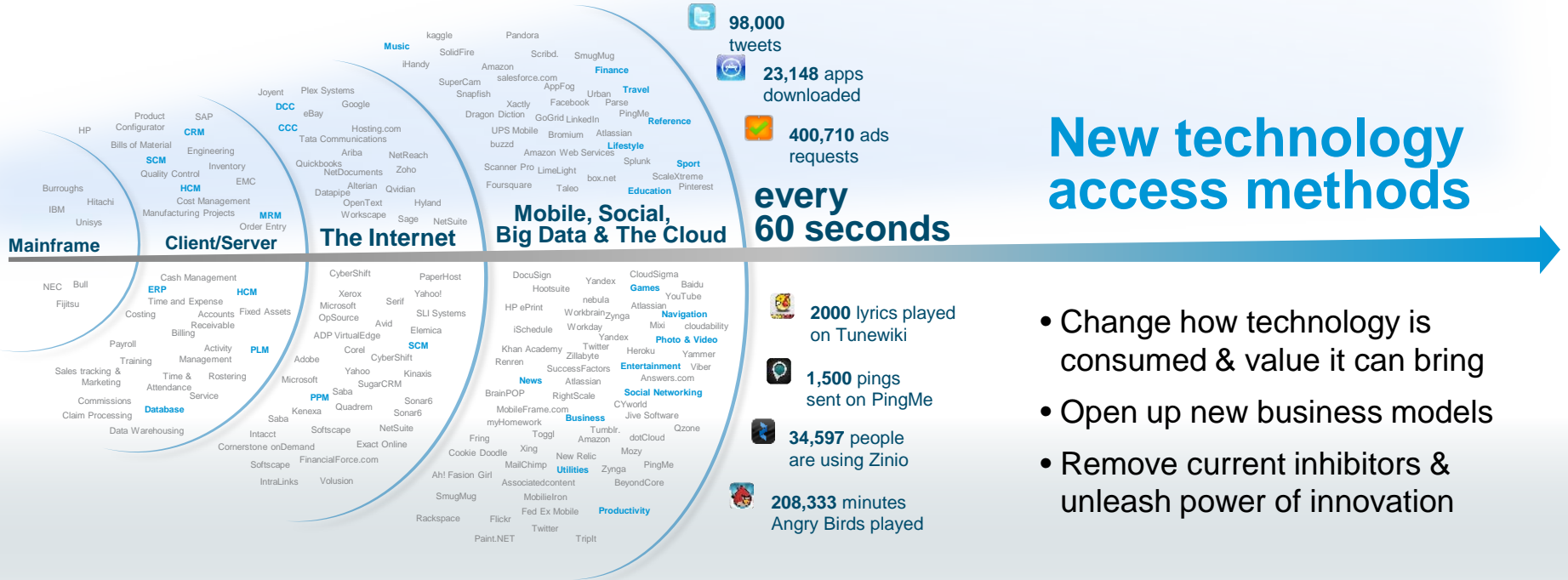


From Computer Desktop Encyclopedia
Reproduced with permission.
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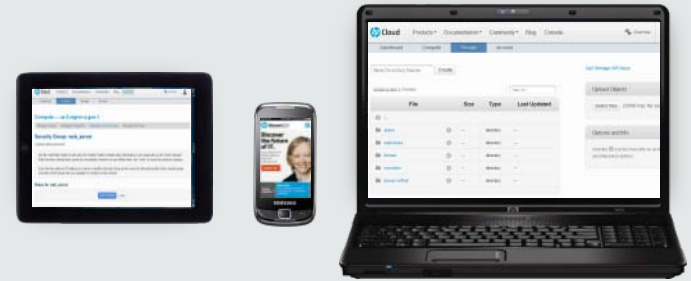




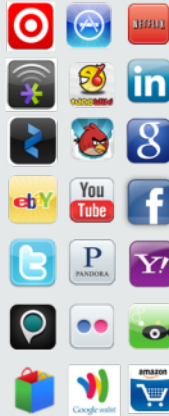
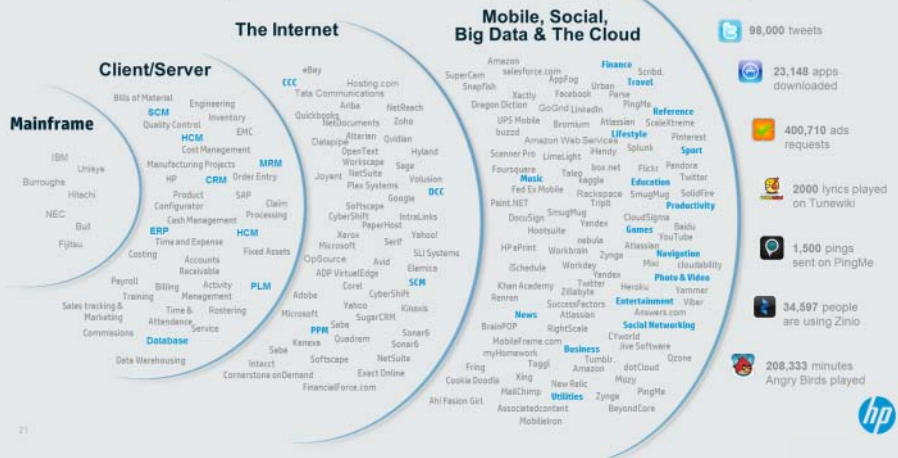
Accelerating innovation & change



BYOD era meets Enterprise IT



Accelerating Innovation & Change



- Bite-sized applications & interactions
- Cloud is the back-end with interoperability everywhere
- Analytics + big data
- Seamless orchestration across hybrid delivery model

Shifts enabling unconstrained IT access

Infrastructure
ANYWHERE

Applications
ANYWHERE

Information
ANYWHERE

=

Services
ANYWHERE



IT Incidents & their impact

Why HP NonStop makes sense
(now more than ever ...)



IT Incidents do occur ...

03/08/12 [RBS sets aside £125m to cover IT meltdown costs](#)

The Royal Bank of Scotland has set aside £125 million to cover costs resulting from the technology failure that hit RBS, NatWest and Ulster Bank customers in June.

05/09/12 [NAB suffers five-hour outage](#)

Glitch-prone National Australia Bank and its UBank subsidiary suffered a five-hour outage Wednesday after a network failure at the bank's ageing East Melbourne data centre

24/08/12 [Japanese watchdog slams TSE over trading outage](#)

The Tokyo Stock Exchange has been ordered to overhaul its systems and processes following a computer glitch that halted trading earlier this month



IT Incidents do occur ...

02/08/12 [Knight Capital blames tech glitch for stock market chaos; faces \\$440m pre-tax loss](#)

News Knight Capital says that a "technology issue" at its market making unit was behind the volatile price movements in 140 shares yesterday that forced Nyse Euronext to cancel trades.

21/05/12 [HSBC IT failure hits ATMs and card payments](#)

Some UK HSBC customers were left unable to make card payments or withdraw cash from ATMs yesterday thanks to an IT hardware failure

25/01/12 [IBM server crash hits Canadian bank services](#)

News An outage at IBM's server farm in Montreal has knocked out online services and ATMs at two Canadian banks, according to a local press report.



IT Incidents do occur ...

11/06/12 [Nasdaq faces legal action over \\$350m Facebook IPO disaster](#)

Swiss bank UBS is weighing legal action against Nasdaq OMX after losing up to \$350 million during the botched Facebook IPO. which saw trading delayed and failed order cancellations

29/08/12 [FNB suffers month-end crash](#)

First National Bank (FNB) has apologized for an interruption of its electronic services which left customers high and dry during peak evening shopping hours yesterday.

22/08/12 [Square payments hit by outage](#)

Transactions went unprocessed yesterday thanks to technical problems that also saw the mobile payments firm's Web site go down



IT Incidents do occur ...

14/10/11 [Blackberry Outage for three days caused by faulty router](#)

Insiders blame RIM's system, its poorly handled expansion and the demands of video content for failure that hit 70 million users. It is estimated that the explicit costs due to the outage will be limited to **\$350 million**

22/04/11 [Chaos as Amazon cloud failure crashes major websites](#)

Sites across the U.S. went offline for up to 12 hours yesterday as Amazon's northern Virginia data centre was hit by a series of outages.

29/08/12 [United Airlines system failure](#)

United Airlines says a computer outage that caused the cancellation of nine flights and delayed 580 others was the result of an equipment failure.



IT Incidents do occur ...

29/07/11 [RSA SecurID hack costs EMC \\$66m](#)

The security breach at RSA earlier this year that compromised its SecurID two-factor authentication system has so far cost parent company EMC \$66 million, according to the Washington Post.

29/03/07 [TJX hack is biggest ever with 45.7 million card numbers stolen](#)

Fraudsters who hacked the computer systems at US retailer TJX managed to steal more than 45.7 million credit and debit card numbers over a period of more than 18 months, making it the biggest breach of personal data

14/05/12 [Bitcoin exchange loses \\$90,000 in virtual currency hack](#)

Bitcoin exchange Bitcoinica has shut down its operations after an online hacker breached its defences and stole \$90,000 worth of the virtual currency.



Greece Discover Greece Always in season Advertise on NYTimes.com

Computer Failure Delays United Flights Nationwide

By ANAHAD O'CONNOR
Published: June 17, 2011

Passengers were stranded at airports across the country Friday night after a failure in [United Airlines'](#) computer system, the airline said.

The disruption set off widespread delays at airports in San Francisco, Chicago and Washington, with many passengers left sitting in terminals or stuck on planes that were grounded.

United said in a statement that the problems began at 8:15 p.m. New York time, [when the computer failure knocked out its flight departures, airport processing and reservations systems.](#) The statement did not address the nationwide delays, and a spokesman did not return a phone call seeking comment.

- RECOMMEND
- TWITTER
- LINKEDIN
- SIGN IN TO E-MAIL
- PRINT
- REPRINTS
- SHARE

THE SESSIONS COMING SOON

Log in to see what your friends are sharing on nytimes.com. Privacy Policy | What's This? Log In With Facebook

What's Popular Now Disdain for Workers

GET MORE TASTE OUT OF BRUSSELS FIND EXPAT HOUSING

Business failure brings a high cost.

Critical server outage cost per hour (US\$)

US \$243,421

DE \$371,612

FR \$452,245

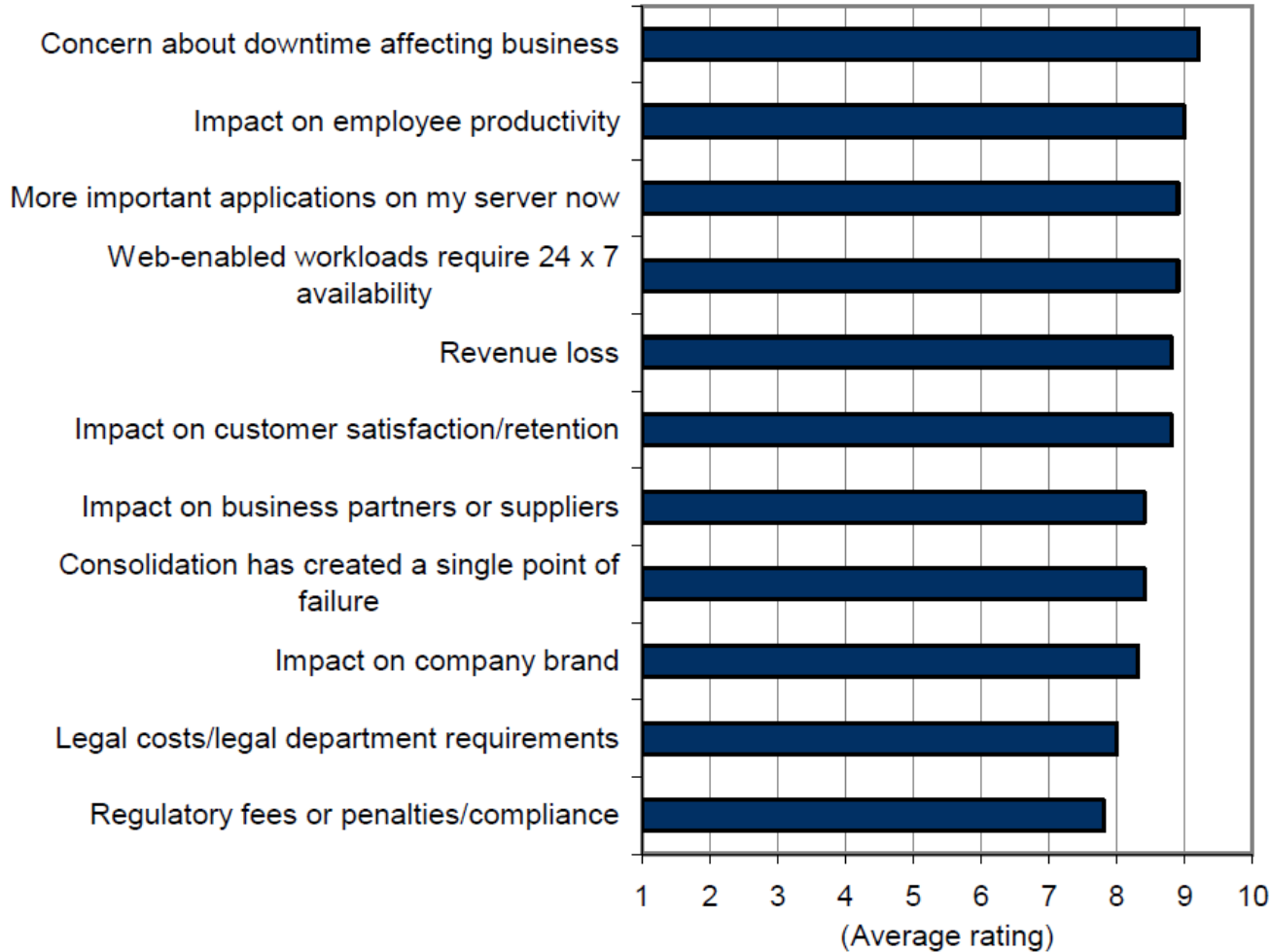
UK \$274,138

Average \$368,692

Source: Virtualization Data Protection
2011 ANNUAL REPORT Survey of 500 Enterprises



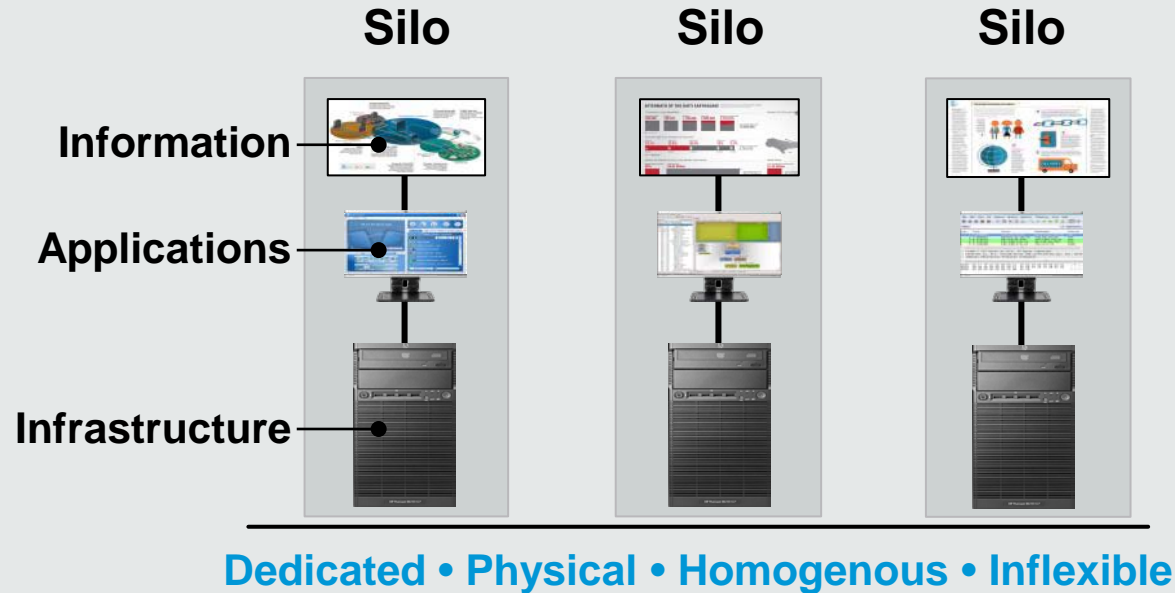
High-Availability Solutions Drivers: All Servers, All Applications



Source: IDC
1= not at all important;
10= most important



Traditional IT limitations



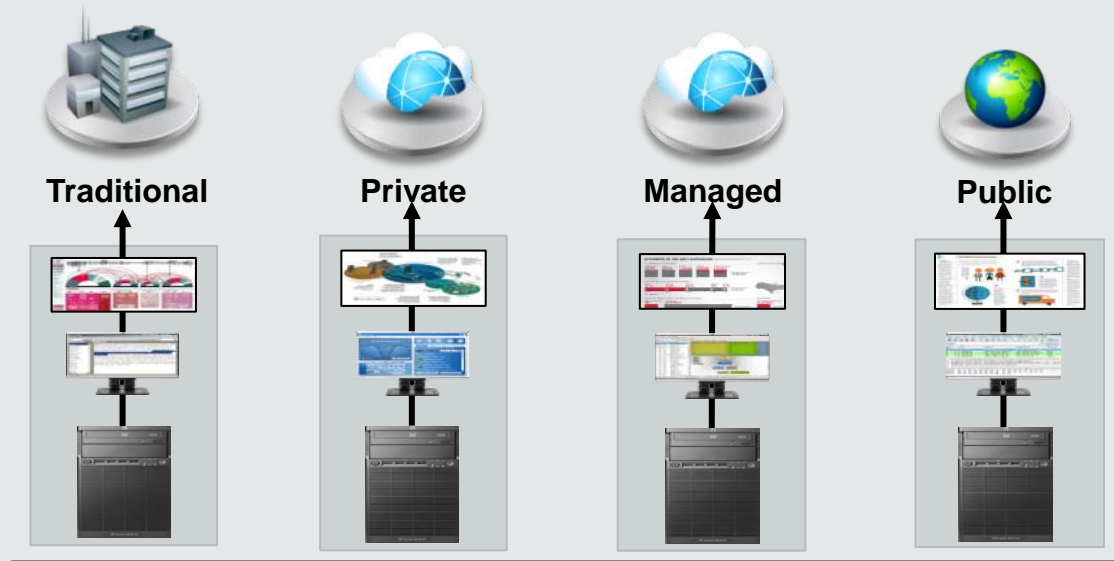
Information,
applications and
Infrastructure are
hardwired

Built in **silos** to deliver
performance and
security

Not built for agility,
speed
and flexibility

Today's approach to hybrid delivery drives more complexity

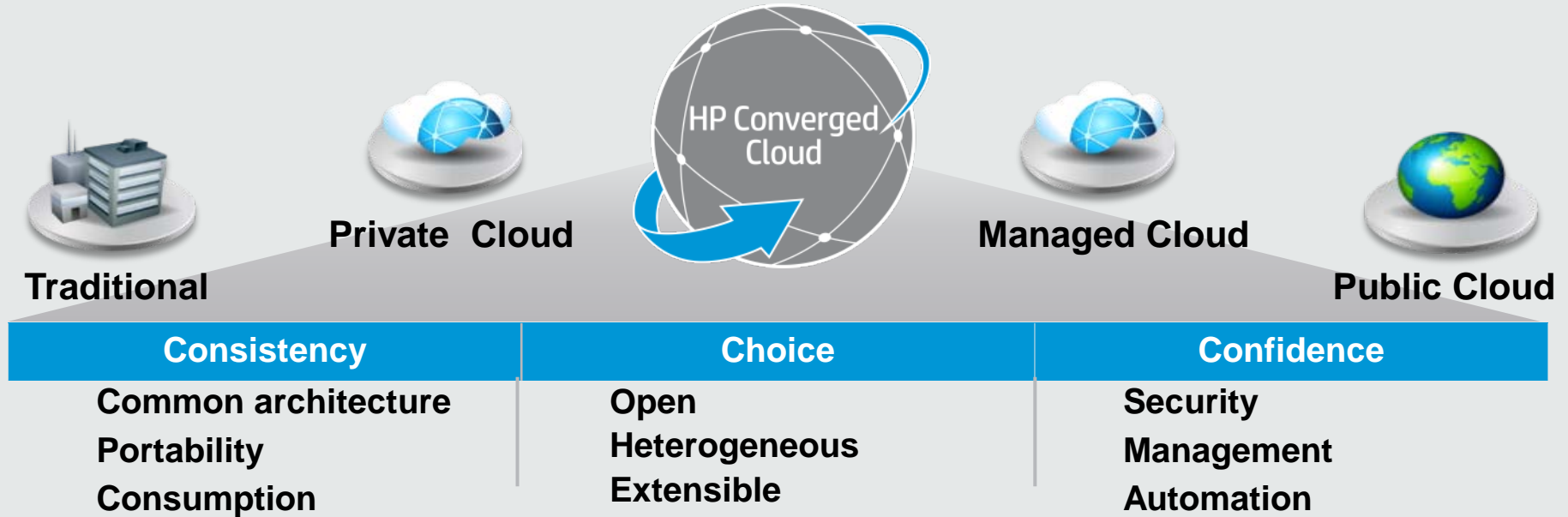
Service models continue to be unique and siloed for **each deployment model**



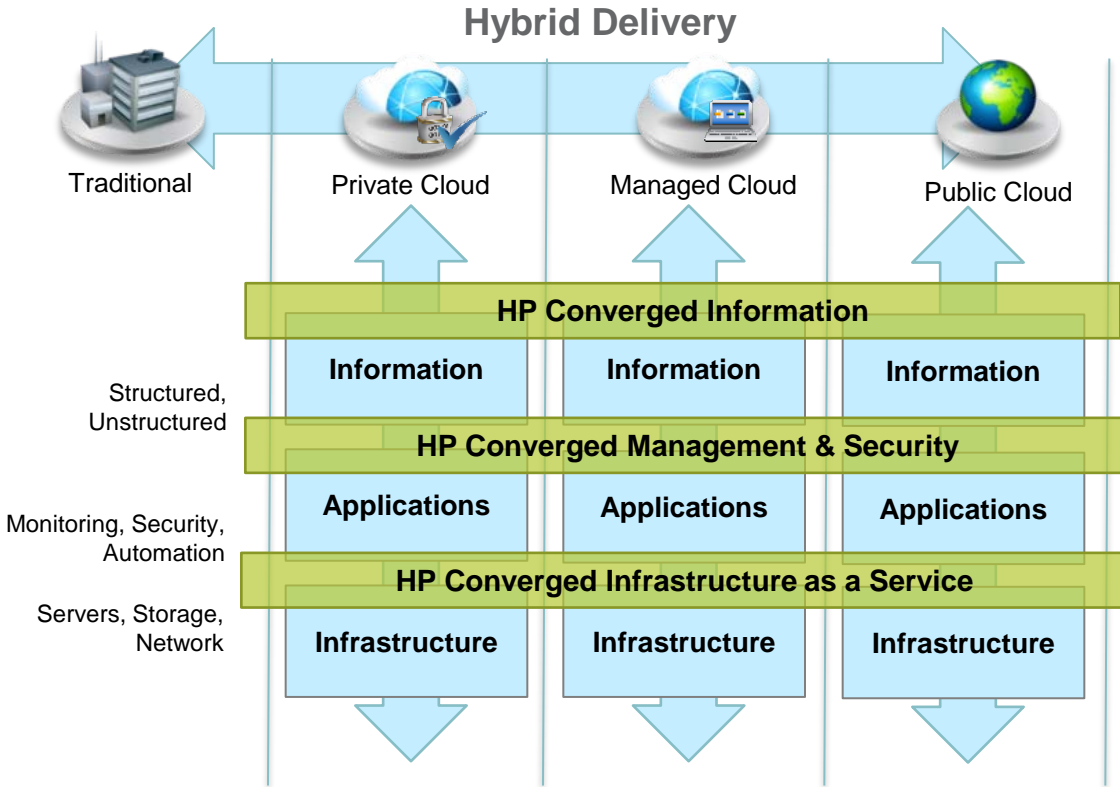
**Disparate Architectures, Different Management & Security
Inconsistent Development Environments**

HP Converged Cloud

Integrated by design



HP's approach...HP Converged Cloud



Choice

- **Open** (standards-based across all delivery models)
- **Heterogeneous** (hypervisors, development and deployment environments)
- **Extensible** (partner ecosystem)

Confidence

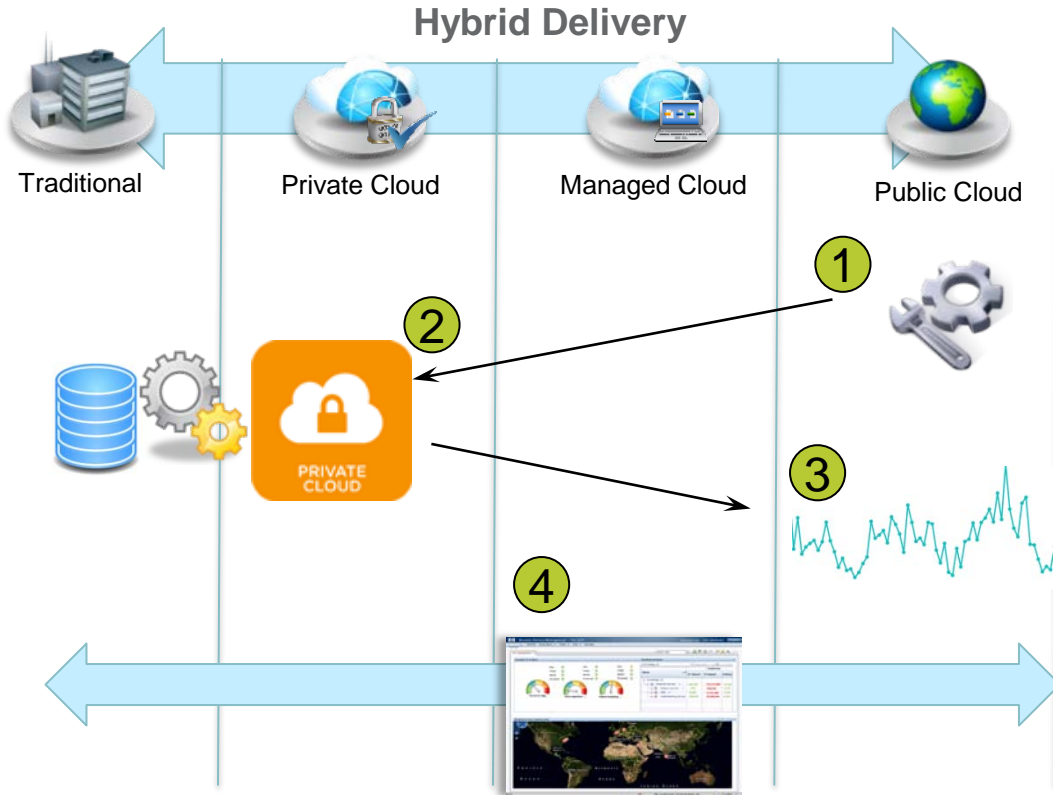
- **Security** (across information, applications and infrastructure, and delivery models)
- **Management** (across information, applications and infrastructure, and delivery models)
- **Automation** (for new cloud based architectures and processes)

Consistency

- **Common architecture** (across all delivery models)
- **Portability** (for flexibility and optimization)
- **Consumption experience** (one simple model across all delivery models)

EMPOWER. INSPIRE. IGNITE.

HP Converged Cloud in action

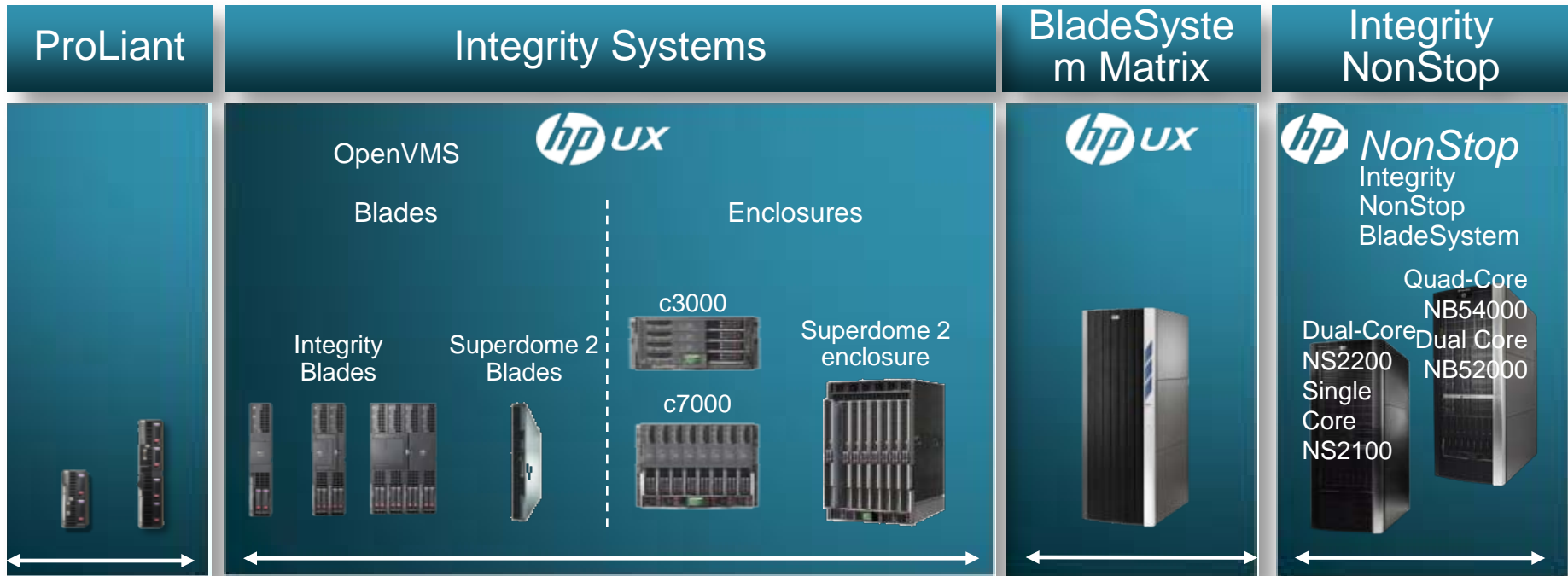


- 1 Develop and test new application in public cloud with policy-based, model driven approach
- 2 Deploy and run application in private cloud production environment, integrating with existing company databases
- 3 Burst workload to public or managed cloud when additional on-demand capacity is needed
- 4 Manage and secure composite applications and services across hybrid environment

EMPOWER. INSPIRE. IGNITE.



NonStop is a strategic part of HP's Converged Infrastructure



Intel and AMD x86

**MOST EXTENSIVE
I/O BANDWIDTH**

**MOST EXTENSIVE
MEMORY CAPACITY¹**

**MOST EXTENSIVE
SCALABLE COMPUTING**

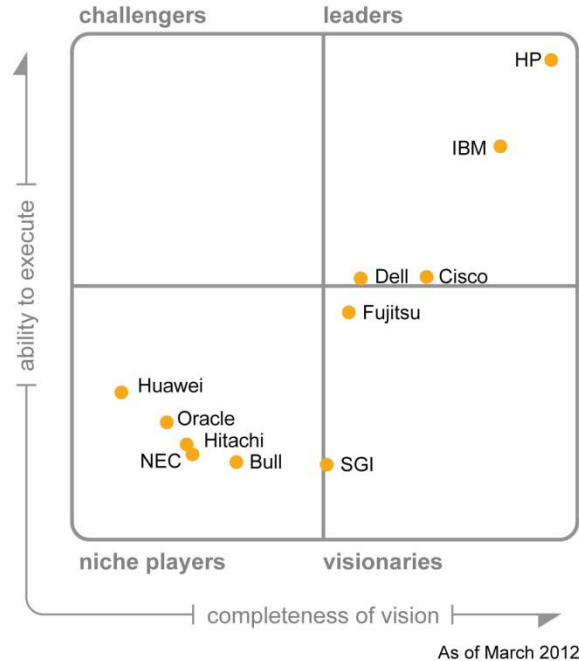
Up to 4,080 nodes



Gartner Magic Quadrant

- For Blade Servers

Figure 1. Magic Quadrant for Blade Servers



Source: Gartner Magic Quadrant for Blade Servers
March, 2012
ID Number: G00225510

Source: Gartner (March 2012)

This Magic Quadrant graphic was published by Gartner Inc. as part of a larger research note and should be evaluated in the context of the entire report. The Gartner report is available upon request from HP. The Magic Quadrant is copyrighted 2009 by Gartner, Inc., and is reused with permission. The Magic Quadrant is a graphical representation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendors measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor, product or service depicted in the Magic Quadrant, and does not advise technology users to select only those vendors placed in the "Leaders" quadrant. The Magic Quadrant is intended solely as a research tool, and is not meant to be a specific guide to action. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.



All modern, All standard, All NonStop

and integrated into HP Converged Infrastructure

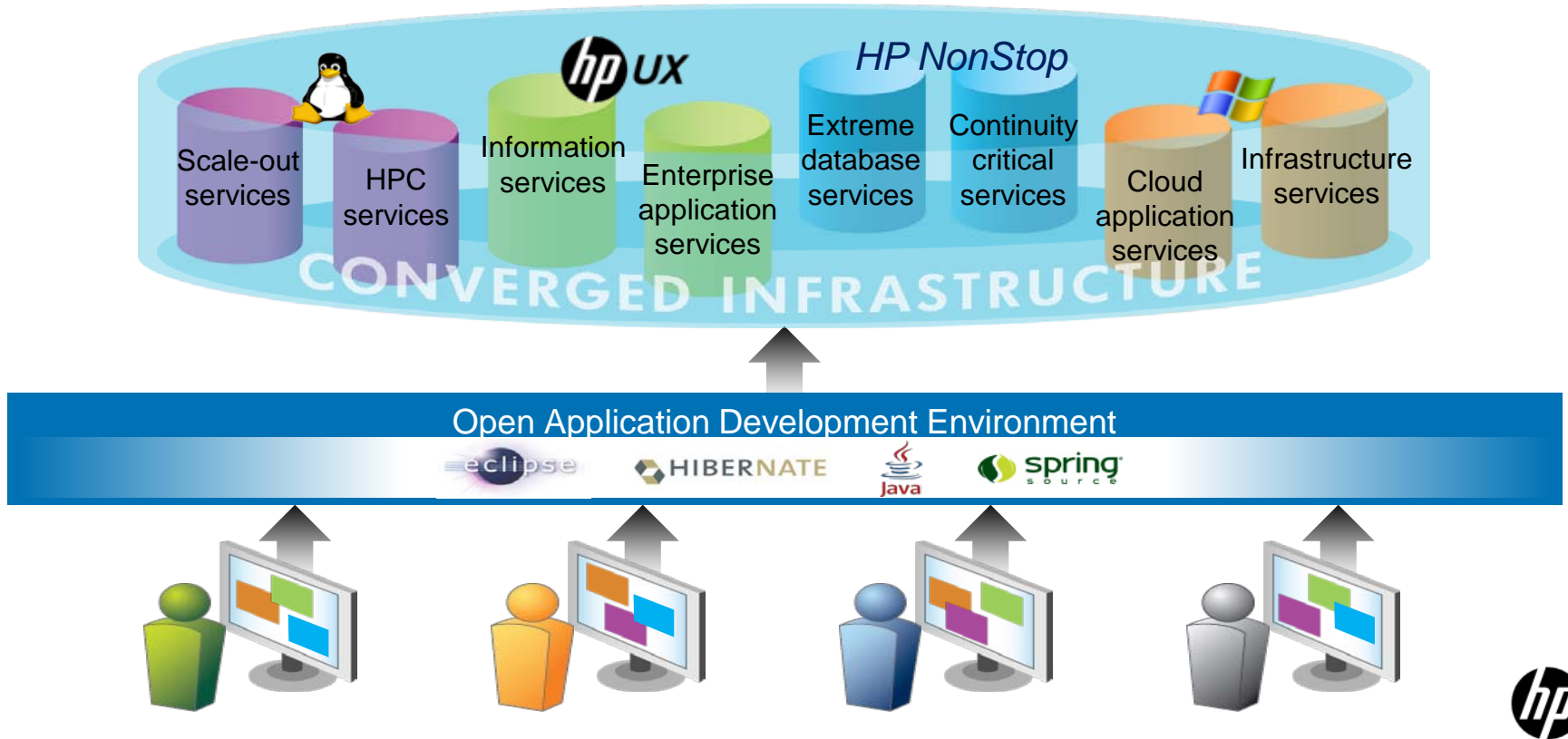


Virtualized • Resilient • Orchestrated • Optimized • Modular



Modern, Open Software

Integrity NonStop plugs into the open application development model TODAY



We are living in the Internet age ...

- Systems need to be permanently available and self-healing
- Data integrity needs to be maintained at all times
- Systems need to be secure
- Systems need to scale massively / endlessly
- Systems need to run unattended / high degree of automation
- Systems need to be „green“ – requiring less energy and cooling
- Not susceptible to malware floating in the Internet

PC *)
Technology

HP
NonStop

?



?



?



?



?



?



?



*) X86 – based, Windows / Linux OS



HP Integrity NonStop

enabling mission-critical businesses today

Financial Services

- Payment systems: Credit, debit, POS, wholesale
- Exchanges & trading



- 70% of all ATM payments and 66% of all credit card transactions

Communications Media & Entertainment

- HLR, HSS and SDM
- Intelligent Network /3G Services
- Messaging



- World's largest ISP Global Messaging
- 300+ million subscribers "live" in HP HLR solutions

Manufacturing

- Production Control Systems
- Manufacturing Execution



- Premier automotive manufacturers
- Logistic management

Healthcare and Public Sector

- Electronic Patient Records
- Defense and Intelligence systems



- Over 200 hospitals including many of the world's largest teaching hospitals
- National Security
- Transportation



Data sheet



For businesses that run nonstop

HP Integrity NonStop NS2100 Server



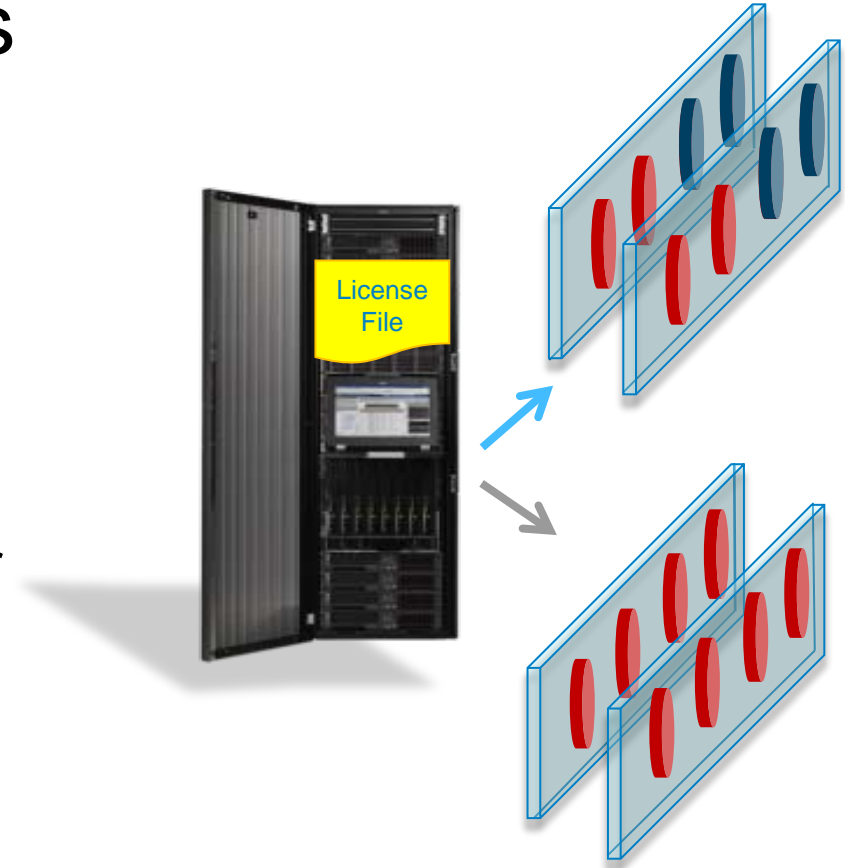
Key features of the HP Integrity NonStop NS2100 Server

- Standards-based architecture using the latest Itanium[®] processor technology—the Intel Itanium Processor 9300 series
- Standards-based, open computing—HP NonStop infrastructure supports all relevant open standards for ease of application development and portability
- A flexible platform for heterogeneous environments with a choice of application architectures and management tools
- Uniquely designed for the absolute highest levels of availability¹ and reliability to enable continuous business
- Delivers the lowest TCO² in its class with a fully-integrated stack of hardware, operating system, database, and software
- Complete application compatibility with all other NonStop servers

Core licensing concepts

With J06.13, HP introduces software changes that read a new core license file on the NB54000c BladeSystem.

The NonStop OS uses this file to determine what core level a customer has purchased for the NB54000c and to enable either 2 or 4 cores to run in all CPUs on the system.



To: NonStop Field Representatives
From: Ajaya Gummadi, HP NonStop Database Product Management
Date: September 11, 2012

Security Level: HP Unrestricted – This Information is for HP Customers, partners and employee use.



Announcing the Availability of NonStop SQL/MX 3.2

HP is pleased to announce the immediate availability of **NonStop SQL/MX 3.2** on HP Integrity NonStop servers. For customers who need an out-of-the-box clustered enterprise database system, that handles OLTP and Data Warehouse workloads on the same database server, unparalleled linear scalability, and continuous database availability with online manageability of multi-Petabytes database, NonStop SQL/MX 3.2 provides the following key features:

Existing customers can easily upgrade to SQL/MX R3.2 once they have installed H06.25/J06.14 Release Version Update (RVU).

The **SQL/MX Release 3.2** includes key features that enable migration from other databases, help with database manageability, provide secure access to the database, and offers newer ways to access the database.





News **COMPUTERWORLD** Intel's new Itanium chip, Poulson, to launch later this year

By Agam Shah
September 11, 2012 11:29 PM ET

IDG News Service - Intel on Tuesday said it was on track to launch the next-generation Itanium processor later this year, brushing away any speculation that the processor would reach its end of life in the near future. The next-generation Itanium chip for Unix and Linux servers, code-named Poulson, will succeed the current Itanium chip code-named Tukwila, which was released in 2009 after many delays. The chip is used in fault-tolerant servers that typically run high-end applications.

"We're on track for the launch of Poulson later this year," said Diane Bryant, vice president and general manager of the Datacenter and Connected Systems Group, during an interview at the Intel Developer Forum being held in San Francisco.



ORACLE Support für Itanium Prozessoren

Itanium - Microsoft Internet Explorer provided by Hewlett-Packard

File Edit View Favorites Tools Help

McAfee

hp bing Smart Print Work Hotmail Autofill Private Messenger E-mail page IM page Sign in

http://www.oracle.com/us/corporate/features/itanium-346707.html

Google

Home - BCS GY Load & F... MyScore - Sales performa... Google Business Trave IHome - St... @hp Employee Portal Home - EMEA NED Finan... athp - Home BCS LOAD Share

Itanium

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About > Features

PRESS RELEASE

Oracle Issues Statement
REDWOOD SHORES, Calif., September 4, 2012

Oracle issued the following statement today:

Previously, Oracle announced that it would stop developing new versions of its software on Itanium microprocessors. For example, that meant version 12c of the Oracle database due out in early 2013 would not be available on Itanium. However, a judge recently ruled that Oracle has a contract to continue porting its software to Itanium computers for as long as HP sells Itanium computers. Therefore, Oracle will continue building the latest versions of its database and other software covered by the judge's ruling to HP Itanium computers. Oracle software on HP's Itanium computers will be released on approximately the same schedule as Oracle software on IBM's Power systems.

PRESS RELEASE

Oracle 1-800-633-0738
Have Oracle call you
Global contacts

HP vs. Oracle Trial

- Oracle Opening Statement (June 4, 2012)
- Day Two Exhibits (June 5, 2012)

Close

Court Filings

Oracle Statements

Internet | Protected Mode: Off 125%

DE 17:31 11.09.2012

HP Delivers the Full Mission-Critical Experience

NonStop

NonStop



**NB54000
BladeSystem (Quad-Core)**



Integrity

- Extending mission-critical reach
- Flexible workload solutions
- Mission-critical integration



32s Superdome 2



OpenVMS

- v8.4 Update

- v8.x

Building
Mission-Critical x86



DL980

Serviceguard
for Linux



- SQL Optimizer
- Error analysis & recovery, online patching
- Dynamic utility computing

DragonHawk
HydraLynx



2011

2012

Future

Yes



NonStop Business Update



Einladung zum HP Workshop

Innovation in Payments and Fraud Prevention

17. Oktober Frankfurt in der Gerbermühle 9:30h – 14:00h

Payment-Kanäle und Bezahlverfahren vervielfachen sich; Online- und Mobile-Commerce wächst unaufhörlich. Darüber hinaus formieren sich Betrüger zu professionellen Organisationen und setzen fortschrittliche Methoden für ihre Zwecke ein.

Wie sollen sich Finanz- und Payment-Dienstleister in dieser sich dramatisch verändernden Welt positionieren, um wettbewerbsfähig zu bleiben, die neuen Geschäftsmöglichkeiten für sich zu nutzen, Beziehung zu ihren Kunden weiter zu verbessern und ihr Risiko effizient zu managen?

Auch eine standardisierte, flexible und höchst zuverlässige Technologiebasis spielt eine wichtige Rolle für die erfolgreiche Erschließung neuer Geschäftspotenziale.



Vielen Dank!

