



NonStop Computing Update

November/December 2008



Welcome to the November/December 2008 edition of the *NonStop Computing Update*, a newsletter providing the latest information about HP Integrity NonStop BladeSystem, Integrity NonStop servers, and HP NonStop servers.

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Success Stories

Verizon Wireless relies on NonStop BladeSystem for great performance

“Verizon Wireless has built a reputation in the marketplace as having the nation’s most reliable wireless network and NonStop technology has played a critical part in that for many years now. We think the Integrity NonStop BladeSystem will continue to offer superior reliability with even greater performance—and at the same time, will help us to reduce our internal costs.”

—Dan Belenets, executive director of National Network Operations, Verizon Wireless.

>> [Find out why Verizon and other telecommunications carriers turn to the first ever 24/7 mission-critical, NEBS-certified computing system built with bladed modularity and standards.](#)

General News

HP lowers cost of virtual infrastructures with new storage platform

Part of HP’s growing portfolio of storage virtualization solutions, the new HP StorageWorks SAN Virtualization Services Platform (SVSP) improves the efficiency and simplifies the management of heterogeneous midrange storage arrays. The software and hardware storage virtualization solution enables enterprises to improve productivity, simplify operations, and achieve lower total cost of ownership for their storage area network (SAN) environments. The HP SVSP is a network-based storage platform that pools capacity across HP and non-HP storage hardware. It works together with the HP StorageWorks Modular

NonStop Computing News

Introducing the carrier grade Integrity NonStop BladeSystem

HP announces the immediate availability of a distinct Integrity NonStop BladeSystem for customers focused on communications, media, and entertainment (CME): the Integrity NonStop NB50000c-cg BladeSystem.

The Integrity NonStop NB50000c-cg BladeSystem is designated as “carrier grade” and meets Network Equipment Building System (NEBS) spatial and environmental criteria, including seismic bracing. Combining the economies of standards-based, modular computing with the trusted high availability and data integrity of NonStop technology, it has half the footprint of Integrity NonStop NS-series systems, yet delivers up to twice as much processing power per unit of floor space within the same power envelope.

>> [Get all the details.](#)

New carrier grade storage and communications I/O controllers

With the Integrity NonStop NB50000c-cg, HP also introduces a novel carrier grade I/O infrastructure offering enhanced capabilities that complement new blade and multi-core processor technologies. New carrier grade storage and communications I/O controllers and adapters are built on standards-based servers and tightly integrated with the NonStop NB50000c-cg via the HP ServerNet system area network. Called *CLuster I/O Modules* (CLIMs), there are three functional types available.

- Carrier Grade Storage CLIM
Enables attachment of Serial Attached SCSI (SAS) disks (3.5-inch 15,000-RPM disks) and Fibre Channel disks and tapes.
- Carrier Grade IP CLIM
Supports up to five gigabit-per-second copper Ethernet ports—plus TCP/IP v6 and v4, IP Security (IPSec), and the Stream Control Transmission Protocol (SCTP) for the telecommunications industry.
- Carrier Grade Telco CLIM
Supports up to five gigabit-per-second copper Ethernet ports—plus the M3UA protocol for connection to the Signaling System 7 (SS7 over IP) communication standard used by telecommunication switching systems to control call setup and management.

>> [Find out more.](#)

Podcast: NonStop technology gets bladed

Listen as Gordon Haff of Illuminata, Inc. comments on HP’s recent Integrity NonStop BladeSystem announcement. Haff, principal IT advisor with the Illuminata information technology analyst and advisory firm, discusses the new system’s features and benefits and focuses on computing infrastructure business and technology, including processors, servers, and the platform software that runs on them. He is the author of the research paper *HP NonStop Gets Bladed*.

>> [Listen to the podcast.](#)

Smart Array (MSA) and the HP StorageWorks Enterprise Virtual Array (EVA) as well as a number of third-party arrays to centralize the management of a virtualized SAN environment. As a result, enterprise customers deploying Fibre Channel SANs are able to significantly simplify operations and improve overall productivity.

>> [Read more.](#)

HP cuts costs, triples data center capacity with energy-efficiency technologies

HP has broadened its Green Business Technology initiative with additions to its HP Thermal Logic portfolio that include power-capping server technologies and energy-efficiency services designed to reduce costs and extend the life of data centers. In traditional data centers, customers invest millions in capital expenditures to create a redundant power infrastructure that maximizes uptime.

Additionally, to ensure power availability, IT administrators overprovision server energy. HP Dynamic Power Capping helps customers reallocate power and cooling resources in the data center by dynamically setting or “capping” the power drawn by the servers. This eliminates the need for overprovisioning by precisely identifying how much power is actually required to run each server and setting a limit based on that usage. As a result, companies reclaim their overprovisioned energy to improve the capacity of their data center.

>> [Go to the article.](#)

Enabling subscriber profile and data management with Integrity NonStop servers

We are witnessing the next era of mobility as mobile communications subscriber usage extends beyond the current abilities of voice and data to connect with the world at large. Mobility is becoming a presence, a personality, a connection to a social network, and a unique way of engaging with people around the globe. The key building block for service providers (SPs) to deliver the required next-generation services to their customers is a unified profile, a data services layer that allows SPs to unify user information from multiple sources into a single, logical view. They have the critical subscriber data assets in their network today to construct one. They need to leverage that data and make it available to the systems necessary for them to roll out personalized communications services. By consolidating subscriber data and gaining a centralized view of profile data, SPs can effectively reduce the cost of rolling out new services with HP OpenCall Home Location Register, HP OpenCall Profile Manager, and the reliable 24/7 infrastructure of the Integrity NonStop platform.

>> See the [new HP brochure.](#)

GE Centricity Enterprise and Integrity NonStop servers transform healthcare delivery

GE Centricity Enterprise runs exclusively on Integrity NonStop servers and delivers the lowest TCO with the highest reliability, availability, and scalability to meet the needs of small and large hospitals. See why the Integrity NonStop BladeSystem is just what the doctor ordered for healthcare providers upgrading from NonStop S-series servers.

- [GE Centricity Enterprise with the HP Integrity NonStop server brochure](#)
- [Improving patient care with GE Centricity Enterprise and HP Integrity NonStop servers white paper](#)

NonStop Enterprise Plugins for Eclipse Version 1.1

The Eclipse development environment makes it easier than ever to develop continuously available mission-critical applications that scale transparently using industry-standard languages, databases, and middleware. NonStop Enterprise Plugins for Eclipse comprise a development tool based on the open source Eclipse development environment. Available immediately, Version 1.1 is the newly enhanced version of the software, offering exciting features such as the ability to build applications remotely and new tools that support easy editing in Java™, native C/C++, pTAL, and COBOL languages.

>> [Read the product announcement.](#)

New NonStop operating system RVUs

Two release version updates (RVUs) of the NonStop Operating System are now available and shipping.

- [RVU J06.05 of the NonStop Operating System, Mission Critical Edition, supporting the Integrity NonStop BladeSystem](#)
 - Includes support for the Integrity NonStop BladeSystem for the telecommunications market.

comForte celebrates NonStop excellence

It may be comForte's tenth year of doing business, but the company's heritage goes back much further. The success story really began 30 years ago with Dr. Michael Rossbach and Tandem Computers, Inc.—comForte management and development teams came to the company with deep NonStop and Tandem computing expertise. [Read more.](#)

Crystal Point OutsideView 8.0

OutsideView 8.0 software is a major new release of Crystal Point's 6530 terminal emulation solution for NonStop systems. Offering improved performance, new security options (SSH2, SFTP, and SSL/TLS), and new productivity features for system administrators and programmers, it supports Microsoft® Windows Vista® and Microsoft Server 2008.

[See the details.](#)

Ban Bottlenecks webinar, Dec. 16: Improving the Customer Experience

NonStop technology-based ATM, point-of-sale, e-commerce, loyalty, and other customer-facing systems are critical to a company's success. These systems can be very complex and often depend on other systems inside and outside the organization. Jon Schmidt, creator of Transaction Design, Inc.'s Ban Bottlenecks service, will discuss how to manage both end-user services and back-end systems and services on December 16 at 11:00 a.m. PST. To sign up, send an e-mail with your name, address, and phone number to inform@banbottlenecks.com.

Crystal Point and XYPRO encryption compatibility

Crystal Point and XYPRO announce the compatibility of Crystal Point's OutsideView 8.0 and XYPRO security and encryption solutions. The

- [RVU H06.16 of the NonStop Operating System, Mission Critical Edition, supporting Integrity NonStop servers](#)
 - Includes support for the Internet Protocol Cluster I/O Module (IP CLIM).

In addition, both RVUs include the following new and enhanced functions, as well as general defect repair:

- Increase to the maximum size of DP2 disk volumes.
- Enhancements to HP Safeguard software, including improved password management and auditing of changes to Safeguard objects.
- A new implementation of the socket interface to the AF_UNIX family of transport providers. This new implementation provides greater reliability, performance, and compatibility with open systems.

For a complete list of product versions and software product revisions (SPRs), refer to the CONTENT file found on the site update tape (SUT) in Y9230J05 for RVU J06.05 and Y9230H16 for RVU H06.16 as well as on the [HP Technical Documentation website](#).

Nonblocking I/O for NonStop OSS pthreads applications

Nonblocking I/O processing has been incorporated into the NonStop Operating System, Mission Critical Edition, in release version updates (RVUs) J06.04 and H06.15. Nonblocking I/O processing enables NonStop application developers to achieve even greater levels of concurrency in multi-threaded applications, thereby achieving optimum application performance.

>> [Read the technical update.](#)

AWAN end of sales announcement

HP announces the end of sales of the Asynchronous Wide Area Network (AWAN) controller for NonStop systems. Effective December 31, 2008, this product will no longer be available for order or shipment. The AWAN controller connects to an Ethernet port on NonStop systems and handles asynchronous protocols. Existing AWANs product IDs are as follows:

16 port:	3886-16
32 port:	3886-32
Current Loop:	3886-CL

The ServerNet Wide Area Network concentrators (SWANs) 3880 and 3881 can handle asynchronous protocols and devices (as well as synchronous ones). SWANs will continue to be orderable. Support for existing AWANs will continue under regular HP support agreements.

companies have completed compatibility testing and the products work together seamlessly.

[Find out more.](#)

User Group News

Connect SIGs for NonStop technology

Connect, the independent HP Business Technology Community, offers eight Special Interest Groups (SIGs) for members who are interested NonStop technology and want to enhance professional development through networking at seminars and chapter meetings.

- [Integrity NonStop Migration SIG](#)
- [NonStop Operations Management SIG](#)
- [NonStop Performance SIG](#)
- [NonStop Security and Audit SIG](#)
- [NonStop SOA SIG](#)
- [NonStop SQL SIG](#)
- [NonStop Telecom SIG](#)
- [Open NonStop SIG](#)

Education News

Upcoming Customer Conference Call

The following one-hour webcast, presented from 8:00 to 9:00 a.m. PDT (U.S.), is accessible over worldwide toll-free phone numbers for audio and uses the HP Virtual Classroom (HPVC) for slide display.

- January 15
Topic: Improvements to HP Operations Agents for NonStop (OVNM 5.0 and OVNPM)
Presenter: Bob Loftis

>> [Sign up for conference call announcements, view upcoming presentations, or replay previous calls.](#)

Server and Support News

Support Notes, October/November 2008

>> [View NonStop technology Support Notes released during October/November 2008.](#)

Spotlight HP

HP's next phase of global technology plans to support future growth

HP has outlined the results of its three-year IT transformation and laid out the company's IT strategy to support future growth for fiscal year 2009 and beyond. As a result of the effort, HP has reduced its IT operating costs by approximately half, provided more reliable information for executives to make better business decisions, and established a more simplified and dependable IT infrastructure that provides improved business continuity and supports the company's future growth. The initiative began shortly after Randy Mott, HP executive vice president and chief information officer, joined HP in July 2005. Starting in fiscal year 2009, the transformation will lower IT costs by more than US\$1 billion per year from fiscal year 2005 levels. This cost reduction is even more impressive considering HP added more than US\$25 billion in revenue during the three years since the transformation began. The transformation focused on five major initiatives: next-generation global data centers, portfolio management, workforce effectiveness, building a world-class technology organization, and a true enterprise data warehouse.

>> [Find out more.](#)

Important Phone Numbers and Links

(Phone numbers are for North America only, unless otherwise noted.)

» **[Service-oriented architecture \(SOA\) on NonStop servers](#)**

Enabling applications to work better together and new business processes to be deployed quickly.

» **[NonStop news](#)**

The very latest NonStop product news.

» **[Global Mission Critical Solution Center: 1 \(800\) 255 5010 \(U.S. only\)](#)**

Technical hardware and software defect support and usage assistance.

» **[NonStop Presales Group:](#)**

1 (800) 282 6672
Product information, price quotations, and order processing information.

» **[NonStop eServices portal](#)**

A convenient, password-protected portal with access to a wide variety of services.

» **[NonStop partners](#)**

Information on strategic partnerships, partner products, services, and solutions.

» **[Integrity NonStop server partner solutions and applications search tool](#)**

Interactive, cross-platform tool to quickly find NonStop solutions

» **[NonStop Education & training: 1 \(800\) 472 5277](#)**

Education schedules, information, prices, and class enrollments.

» **[NonStop Customer Conference Call](#)**

Monthly technical updates—a “What’s New” in the NonStop world.

» **[NonStop product documentation](#)**

Find NonStop product documentation, along with other HP product documentation. Download *[Tips for Locating NonStop Documents](#)* for help finding NonStop publications, including how to limit searches to just NonStop information.

» **[Business continuity and disaster recovery solutions](#)**

Basic information about business continuity, NonStop products and services for business continuity and disaster recovery, and customer successes.

» **[NonStop software](#)**

Information for developers of NonStop system applications.

» **[Java Technology](#)**

Limitless e-business growth and the portability and ease of Java™ technology can go hand in hand.

» **[Product information for Integrity NonStop BladeSystem, Integrity NonStop servers, and NonStop servers](#)**

» **[NonStop FREEdom program](#)**

Free your financial services applications from the IBM mainframe.

» **[Why Migrate to HP?](#)**

» **[Connect](#)**, the independent HP Business Technology Community: +1 (312) 321 6803

» **[Why Buy NonStop?](#)**

Support for selling the NonStop value propositions to the executives in your company.

» **[NonStop Services & support](#)**

» **[For network & service providers](#)**

Technology for better business outcomes

For more information, go to www.hp.com/go/nonstop.

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