



Evolve and grow in the financial services industry

HP Integrity NonStop servers—the platform for continuity

Overview

- Reliability with 24x7 availability for today's critical real-time needs
- Twice the performance, half the footprint with new Integrity NonStop BladeSystem
- Lower IT and per-transaction costs in a trusted NonStop fault-tolerant environment

Many organizations today are pressured to perform, grow business, and cut costs—all at the same time. While these measures are often necessary to improve business outcomes, the feat is challenging for any organization, and particularly those in the financial services industry. You are required—by fierce competition and customers who demand it—to quickly process huge volumes of data while providing flawless around-the-clock service. There's also tremendous pressure to evolve and modernize as we progress further into the electronic age. Payments and capital markets are two rapidly evolving areas in finance that must successfully balance today's demands with tomorrow's trends.

While looking ahead at a converged wholesale and retail payment system, banks and other financial institutions are also focusing on the more immediate, and pressing, priorities of lowering costs and delivering real-time payments amid rising security

threats. At the same time, banks and other payment entities also have to contend with consolidation—through frequent mergers and acquisitions—and manage disparate sources of information.

Likewise, today's capital markets are looking to take advantage of growth opportunities while continuing to provide seamless operation. There's no room for error, especially with the trade matching systems at the core of the exchange; companies rely on these systems to manage risk by keeping operations up and running. If these systems aren't working, there is a loss of business and revenue and, with it, a loss of confidence, which can be devastating for any financial institution.

Needless to say, the pressure to meet customer service demands, improve financial performance, and still maintain the high levels of security and availability required of this industry is extreme. Fortunately, many financial institutions, like yours, have experienced

“Major U.K. banks all know of HP’s successful track record with the NonStop platform. They know it can deliver 99.99 percent availability in central switching and that is a significant proof point for LINK when seeking new business.”

Steve Garlick, senior solutions architect,
Vocalink (formerly LINK)



firsthand the reliability and high availability of HP NonStop servers. Many of you are also beginning to recognize the distinct advantages of HP Integrity NonStop servers—and perhaps you’ve even heard about the new Integrity NonStop blade form factor. By moving to the Integrity NonStop platform, you can significantly boost performance and drive down the cost per transaction without sacrificing the reliability, availability, and scalability your organization depends on.

Keep your systems up and running with HP Integrity NonStop servers

Availability, scalability, and data integrity have always been critical to the success of financial institutions. These fundamentals are important now—more than ever—in today’s real-time environment.

Always available—In this industry, downtime is not an option. Your customers will not tolerate unreliable service. And missed payments or a closed stock market are simply unacceptable. That’s why financial services institutions today rely on the Integrity NonStop platform to run their mission-critical applications. Integrity NonStop systems provide the highest levels of availability in the industry—up to 99.99999 percent uptime with the HP Integrity NonStop Triple Modular Redundancy (TMR) option.

Not only does the NonStop platform offer the best continuous availability on the market, it does so at the lowest total cost of ownership (TCO). With the Integrity NonStop family of servers, you’ll see improved system price/performance as we leverage storage and servers from across HP to reduce hardware R&D costs, and then pass the savings on to you.

NonStop systems can be expanded to more than 4,000 processors. And you can add additional processors whenever you need to—without taking the system down—so work continues while you grow, no matter how fast that may be. That’s important when you consider that the annual number of electronic payment transactions, currently at about 210 billion worldwide, is projected to double by the end of the decade.¹

Always scalable—Managing risk is essential, but so is having a system that has the power and scalability necessary to accommodate unexpected changes and increases in volume. It’s not uncommon for volumes—within payments or the stock exchange—to double or even triple in a very short period of time. Adaptable HP Integrity NonStop servers provide the scalability needed to handle temporary surges in demand as well as long-term growth. And HP Integrity NonStop servers have proven they can scale to handle the most extreme transactional volumes.

HP expands the Integrity NonStop server family

Many financial organizations are looking to HP Integrity NonStop servers for the continuous availability, unrivaled data integrity, and virtually unlimited scalability—ideal for demanding, transaction-intensive applications. Fortunately the Integrity NonStop server family—including the new HP Integrity NonStop BladeSystem, the NS 16200, NS 14200, and the entry-class NS 1200—provides organizations with the performance gains and cost benefits they’re seeking as well.

¹ Study sponsored by ACI Worldwide and conducted by Global Insight, Inc., May 2006.

One HP customer, who processes ATM, electronic funds transfer (EFT), and point-of-sale (POS) transactions for card issuers and banks, discovered that HP Integrity NonStop servers delivered the necessary availability and provided 52 percent more power per CPU than their previous NonStop system for the same costs—an excellent value for their money.

HP has expanded its Integrity NonStop family to include the new **Integrity NonStop BladeSystem**, which delivers the highest performance and considerably lower total cost of ownership compared with our existing NS-series systems.

The HP Integrity NonStop NB50000c BladeSystem will deliver double the performance to drive next-generation applications for less. You'll see improved throughput at a 50 percent lower cost per transaction, improved response time, and the capability to scale up as well as scale out for flexible growth. The NB50000c BladeSystem delivers marked efficiency improvements that lower overall IT costs. Utilizing standard, modular components and a new NonStop multi-core architecture (NSMA), the NonStop NB50000c BladeSystem provides twice the processing power per unit of floor space within the same power envelope. Its footprint is cut in half, which saves on facilities costs. In addition, it provides increased manageability, which saves system administration resources.

The new I/O infrastructure for the NB50000c BladeSystem is the ideal choice for organizations within the financial services industry. New storage infrastructures deploy advanced technologies to increase the disk write speed and reduce the response time. New Internet protocol (IP) infrastructures offer an additional level of transaction security by making the IPSecurity protocol available for NonStop applications on the Integrity NonStop BladeSystem.

The **HP Integrity NonStop NS16200 Server** is a top-of-the-line enterprise computing solution that is designed to deliver unprecedented levels of application availability with fail-safe data integrity. Powered by next-generation Intel® Itanium® processor 9100 series

processors, the Integrity NonStop NS16200 Server delivers significant performance improvements over earlier NonStop server models. As business needs evolve and demand grows, the Integrity NonStop NS16200 Server is designed to support the most complex application requirements. Systems can start out with as few as two Intel Itanium processors and grow to as many as 4,080 as business landscapes change.

HP Services

HP's end-to-end service solutions, built on the Solution Lifecycle (SLC) process, offer consistent quality and service levels for the Integrity NonStop servers. The SLC process helps to achieve rapid productivity and maximum availability by examining specific needs at each of five distinct phases (Plan, Design, Integrate, Install, and Manage) and then designing solutions based upon those needs. We offer three different service solutions designed to meet customer requirements:

HP Critical Service Solution

- **Startup and Deployment Services**—build the solution to your exact specifications, complete the installation, and make the solution application ready
- **Assessment and Design Services**—define requirements and translate your business and technical needs into a solution that melds the necessary hardware and software
- **Deployment Management Services**—up-front project coordination from HP
- **Education Services**—training curricula relevant to needs and existing expertise based upon a needs analysis
- **HP Critical Service**—comprehensive, ongoing support designed to help minimize the business impact of downtime on mission-critical applications

HP Proactive Service Solution

- **Startup and Deployment Services**
- **HP Proactive 24 Service**—integrated hardware and software support, including proactive and reactive services to improve stability and availability throughout your IT environment

HP Foundation Service Solution

- **Startup and Deployment Services**
- **HP Support Plus 24 Service**—integrated hardware and software support services designed specifically for your technology

For more information: www.hp.com/services/nonstop

One HP customer, with worldwide retail operations, recently decided to upgrade its workhorse HP NonStop system (used for all payment-related transactions) to the HP Integrity NonStop NS 16000 platform to ensure PCI (payment card industry) compliance and tighten credit card security between its stores and the central office. By moving to the new platform, the customer is able to bring up the PCI application smoothly and still have plenty of room to grow, as transaction volume continues to rise. The customer is also seeing faster response times with the increased speed of the new system.

HP's midrange solution, the **HP Integrity NonStop NS14200 Server**, delivers moderate scalability—to as many as 2,040 Intel Itanium processors—for customers with modest growth requirements. Like other servers in the Integrity NonStop family, this server supports the scaling of applications linearly without user interruption.

HP's entry-class solution—the HP Integrity NonStop NS1200 Server—is ideal for cost-sensitive applications and emerging markets. This server, which can start with as few as two processors and grow to eight, also exploits the traditional advantage of NonStop servers with fully integrated hardware and software—enabling application availability and fault tolerance right out of the box.

HP StorageWorks

Networked storage helps you keep large amounts of information continuously protected and yet readily accessible to the people who power your business.

Given the importance of your data, HP StorageWorks is committed to meeting the full range of your storage needs—whether it's enterprise-class disk arrays, data protection products, or intelligent management software that enhances the potential of your hardware. This commitment has resulted in more customers choosing HP than any other vendor.

For HP Integrity NonStop servers, the StorageWorks XP disk array family is an enterprise-class storage system that delivers state-of-the-art reliability and around-the-clock availability for mission-critical applications where downtime is not an option. The family also offers broad scalability to support mission-critical processes.

Why HP?

Organizations such as yours within the financial services industry require a system at the heart of their infrastructure that enables them to meet current and future goals—to provide reliable 24x7 processing without a glitch, to bolster performance in faster speeds and throughput, and to reduce IT and processing costs across the board. With the power and flexibility you get with HP's Integrity NonStop platform—from entry-level, midrange, and high-end NS-series systems to the new and innovative NonStop BladeSystem, your organization can lay the foundation upon which to upgrade and expand operations—where you can capitalize on new growth opportunities such as converged payments and mobile banking; where you can grow profits while providing premium customer service; and where you can improve operational efficiencies and, at the same time, reduce risk.

For more information

To learn more about the HP Integrity NonStop server platform and HP Integrity solutions for the financial services industry, visit www.hp.com/go/nonstop or www.hp.com/go/nonstopblade.

To learn more, visit www.hp.com

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