HARNESS

Mission-critical Converged Infrastructure of the future—today—with HP-UX 11i v3 on HP Integrity servers.

Always-on resiliency, dynamic optimization of resources, and investment protection and stability demanded in mission-critical computing

Brochure

hp

Drive up flexibility while reducing risk and delivering compelling value

Today, most data centers are underutilized, absorbing the bulk of the IT budget, and straining business performance to the breaking point. As a decision maker focused on increasing your competitive advantage, you are likely searching for the best way to overcome this IT sprawl so you can free untapped IT capacity and react more quickly to current and new business opportunities. For mission-critical environments, this is especially crucial because minutes of downtime can result in huge costs and lost business.

The solution is a Converged Infrastructure—one that aligns IT with business demands. The HP Converged Infrastructure does just that. It provides a mission-critical environment that simplifies and unifies IT, with always-on resiliency, dynamic optimization of resources, and investment protection and stability demanded in mission-critical computing. The result is accelerated business value delivery and inverting the IT cost ratio—in other words, more resources can be spent on innovation and strategic business initiatives rather than on operations.

Introducing the first mission-critical Converged Infrastructure

With no tolerance for downtime and a mandate to contain costs, increase innovation, improve IT productivity, and generate better business outcomes; you understand the need for a mission-critical Converged Infrastructure.

HP has been delivering mission-critical systems for decades, so, when we set out to build the newest generation of HP Integrity servers, we designed them with your future in mind. Integrity servers deliver the first mission-critical Converged Infrastructure on the industry's #1 blade platform.[1] With a unified architecture, flexible scaling of resources to meet any workload, always-on resiliency, and a Matrix Operating Environment (delivered by Insight Dynamics – VSE) you can be confident that your mission-critical applications will be protected now and in the future.

More and more forward-looking enterprises have decided on a trusted, proven, rock-solid operating environment (OE)—UNIX®—as the foundation for their mission-critical applications. More specifically, they're looking at HP-UX 11i v3, rated #1 among UNIX users for observed availability, operating system quality, and real world manageability.[2]

HP-UX 11i v3 is predesigned, pre-integrated, and application ready. By integrating HP-UX 11i v3 with prepackaged software, independent software vendor (ISV) solutions, and HP Integrity servers, the mission-critical Converged Infrastructure creates an ecosystem that provides:

• A way to simplify and unify IT
• Always-on resiliency
• Dynamic optimization
• Investment protection and stability

---

[1] Source: IDC Quarterly Server Tracker
  Author: IDC
  Year: August, 2010

[2] Source: UNIX Vendor Preference Survey
  Author: Gabriel Consulting Group
  Year: 2010/2011

HP-UX 11i v3: the operating system of the mission-critical HP Converged Infrastructure

HP-UX 11i v3 is designed to simplify and unify IT, and deliver the always-on resiliency, dynamic optimization of resources, and investment protection and stability demanded in mission-critical computing. Furthermore, HP-UX 11i v3 integrates proven UNIX functionality with advances in high availability, security, partitioning, workload management, and instant capacity on demand and delivers it within the industry's first mission-critical Converged Infrastructure to drive up flexibility while reducing risk and delivering compelling value.

HP-UX on HP Integrity servers is ideal for mission-critical applications such as SAP and Oracle, delivering even greater value by providing end-to-end integration, virtualization with Matrix Operating Environment, high availability with HP Serviceguard solutions, and pretesting of a broad range of ISV applications. Plus, because HP Integrity servers are based on a modular system design and open standards, you can carry your current investments into the future at your own pace.

- **Simplify and unify IT**—HP-UX helps you simplify and unify IT by enabling you to manage HP-UX seamlessly within your Converged Infrastructure. This enables you to manage your Integrity blades with HP-UX and ProLiant blades with Windows® or Linux from the same management interface as your HP storage infrastructure. This is especially important as many customers are now deploying mixed HP-UX and Linux environments for their multi-tiered applications. Common management not only means less headaches for your IT staff, it also translates into a reduction of management costs.

- **Always-on resiliency**—HP provides a proven OE delivering the industry's one of the most resilient UNIX platforms, that provides your mission-critical applications are always-on and secure without compromise. HP-UX and Integrity servers include built-in (or integrated) single-system resiliency from self-healing hardware and hot pluggable components so your system keeps running without disruption and can be rapidly repaired. HP Serviceguard is the #1 provider of high availability for UNIX, delivering uninterrupted services for your mission-critical applications within a single data center, and over extended distances.[3] Serviceguard provides faster recovery in the UNIX market. HP-UX builds in the most comprehensive security portfolio, encompassing systems and data protection, role-based access controls, and cross-platform directory integration. HP-UX also has multiple security certifications and is the only UNIX vendor who provides a system hardening tool with the OS that is Center for Internet Security (CIS)-certified.

- **Dynamic optimization**—HP-UX delivers built-in integration of virtualization and management software to optimize IT infrastructure dynamically. HP has years of experience delivering comprehensive integration of virtualization, infrastructure management, and availability software. The unique utility pricing portfolio of HP-UX enables you to reduce costs by turning on additional compute capacity when and where you need it. Integration with HP Serviceguard solutions offers significant savings on your disaster recovery infrastructure, since additional capacity is only activated in the event of an outage. Instantly adjust to dynamic business demands and save on the cost of common data center tasks. Provision or modify a complex infrastructure for new applications in minutes. Automatically allocate resources among multiple workloads to increase server utilization, while meeting service levels for high-priority applications. Use the intuitive capacity planning tool for ongoing consolidation and best-fit analysis including energy factors. HP mission-critical Converged Infrastructure enables you to deploy Integrity, ProLiant, and HP network and storage blades easily in the same enclosure with unified management.

- **Investment protection and stability**—HP-UX is a stable OE powering the core of your mission-critical applications today and for many years to come, delivering exceptional value. HP-UX delivers an integrated and tested mission-critical OE that can lower total costs by 20 to 60 percent compared with alternative UNIX solutions.[4] With HP-UX, you can meet your service-level objectives for availability and performance while still delivering extensive savings per year in administrative costs when compared to Linux. HP has successfully completed hundreds of migrations from AIX and Solaris leveraging HP porting tools and Professional Services expertise. HP-UX offers one of the industry's most stable UNIX platforms with 10+ years of support per release and lower frequency of mandatory updates to avoid unnecessary and costly application retesting. The world's top ISVs are committed to continued innovation on HP-UX to meet the increased mission-critical demands of customers.

---

[3] IDC Vendor Share Reports for Availability and Clustering Solutions, 2001–2009.

[4] Source: Based on HP results using Alinean TCO/ROI tools for competitive reference.
Author: HP. Year: February, 2011

Choose the OE that's right for you

Four distinct OEs are available with HP-UX 11i v3. All provide pretested, integrated sets of software to meet your particular needs. Plus, because they are offered as bundles, you can deploy them faster and have fewer, easier, and less risky updates, while enabling greater productivity. Because these OEs deliver today's popular HP-UX 11i v3 software, you can purchase, install, and maintain a package of varied components as one.

For more details on the HP-UX 11i v3 Operating Environments, refer to the HP-UX 11i v3 Operating Environments data sheet available at **www.hp.com/go/hpux11i**.

HP-UX 11i v3: simplify and unify IT, always-on resiliency, dynamic optimization, investment protection and stability

HP is committed to HP-UX, which for years has served as a rock-solid foundation for critical workloads. In fact, we continue to invest and expand our leadership—predictably and efficiently—in UNIX and in mission-critical virtualization technologies. HP-UX 11i v3 delivers the latest capabilities and enhancements, including infrastructure orchestration, which automatically provisions physical Integrity blades. Our roadmap is long term. This current version of HP-UX will be available through the end of 2014—with 10+ years of support. Applications are fully compatible; even those written for HP-UX 11.0 (which shipped in 1997) run on today's HP-UX 11i v3 on HP Integrity servers.

With the introduction of the latest Integrity servers, we also simplified our software licensing structure to per-socket licensing, making it easier to manage and procure. If you are upgrading your Integrity servers to the newest systems, you can take advantage of our socket-for-socket trade-in program. And if you are transitioning to HP-UX 11i v3 from previous versions or from HP 9000, you will reap a number of benefits, including lower total cost of ownership and improved performance, security, and high-availability capabilities.

Simply put, the software just works—release to release, platform to platform, without modification. And it's all covered by a single support contract.

Technology with a human touch

In an Instant-On world, it's crucial to have complete command over your technology environment. You need a trusted advisor who understands where your business should go and technology decisions you need to make to get there. Combining technology intelligence and know-how with business intelligence, our service professionals have been helping organizations across the globe meet their evolving needs. They can do the same for you.

It's about real partnership. Our consultants and support experts can work with you to transform IT, Converge Infrastructure, and keep technology running.

Connect with our service experts to explore ways to do more with your technology investments; visit **www.hp.com/go/tsconnect/**.

Global citizenship at HP

At HP, global citizenship is our commitment to hold ourselves to high standards of integrity, contribution, and accountability in balancing our business goals with our impact on society and the planet. To learn more, visit **http://www.hp.com/hpinfo/globalcitizenship** and for information about the HP Eco Solutions program, go to **www.hp.com/ecosolutions**.

For more information on HP-UX 11i v3 and the mission-critical HP Converged Infrastructure, visit:
www.hp.com/go/hpux11i and **www.hp.com/go/ci**

Get connected
www.hp.com/go/getconnected

Get the insider view on tech trends, alerts, and HP solutions for better business outcomes