



# HP Integrity systems—the smart choice for your SAP ERP environment

Transition your SAP environments to HP Integrity servers and achieve a smooth, risk-free transition to newer SAP ERP versions



Technology for better business outcomes

“HP Integrity servers gave us the power and computer resources that we needed right off the bat. Online transaction performance improved 32% and the elapsed time on SAP batch jobs was cut in half.”

Mike Meinz, Director of Information Technology,  
General Mills

## Overview

- HP has the expertise to help you transition your PA-RISC processor-based HP 9000 servers, AlphaServers, and mainframes to HP Integrity systems and next-generation SAP ERP.
- HP is at your side every step of the way:
  - Expert designed HP SAP Infrastructure Transition Assessment Service based on proven methodologies
  - Achieve a faster and smoother path forward
  - Choose among a range of affordable financing options
- Ensure business continuity before, during, and after transition.
- Improve the efficiency of your IT operations:
  - Unify the management of your heterogeneous SAP infrastructure
  - Manage change effortlessly and improve utilization with virtualization
- Predictably keep your business running with continuous availability:
  - Maximize uptime
  - Minimize planned downtime
  - Choose among leading operating systems—HP-UX, Microsoft® Windows®, Linux, OpenVMS
- Conserve your IT budget:
  - Upgrade and consolidate your SAP infrastructure to lower costs
  - Avoid costly support maintenance

- Get more from under-utilized resources and avoid bottlenecks with application stacking and virtualization
- Lower your power and cooling costs
- Decrease your server footprint
- Rapidly deploy the features available in SAP ERP 6.0—such as SAP NetWeaver, Unicode, Composite Applications, and Duet™ Software for Microsoft® Office and SAP—and achieve service levels higher than ever before.
- Take advantage of HP 9000 Evolution Program tools and incentives as well as our unique Smooth Transition Method (HP STM) to help you speed up database transitions and data reorganization.

## Destination HP Integrity systems

Whether you are looking to reduce server sprawl through consolidation, planning a simple SAP technical upgrade, adding new functionalities to your SAP ERP environment, or seeking a path to enterprise service-oriented architecture (SOA), HP Integrity systems can help you accomplish your goal. With HP Integrity servers, you gain an adaptable infrastructure for growth that delivers the performance and reliability you need today—together with the scalability you will need to address tomorrow's business challenges. If you are interested in upgrading to the latest version of SAP ERP, the time is now. You can count on HP to be at your side every step of the way—before, during, and after the transition.

“We use HP Serviceguard to create and maintain a highly available environment...This has meant a massive increase in performance, high availability and reliability of the systems...”

Ezio Bombardelli, IT Systems Operations Manager, Pirelli



At HP, we are constantly working to improve our server and storage technology to provide the most flexible, most dependable IT infrastructure available in the marketplace today. These improvements help you increase capacity, agility, availability, and application performance from the vendor with the most complete range of hardware solutions in the industry—from 128-core HP Superdome servers to HP BladeSystem infrastructures to handheld devices. With HP Integrity systems, you can combine your servers with other systems in your environment to support both legacy and new applications. You can also build a flexible infrastructure that provides mainframe-like capabilities—such as workload management with high availability, virtualization, and resource balancing, as well as the highest level of real I/O performance, memory addressability, and bandwidth—at a fraction of the mainframe price.

## Make your infrastructure SAP ERP 6.0 ready with HP Integrity servers

HP is the ideal partner to support your upgrade to the latest SAP ERP release, SAP ERP 6.0. HP gives you a clear and easy path, whether you are transitioning from an older version of SAP or replacing your legacy applications with SAP. HP is one of the largest technology partners for SAP and has been awarded SAP's highest level of partnership in three out of four key areas. HP systems host nearly 50% of all SAP installations worldwide with more than 55,000 installations and more than 20,000 customers. We've helped thousands of customers worldwide with challenges just like yours—and we can help you. We and our HP SAP channel partners are ready and waiting to help you get started today improving your SAP environment.

SAP ERP 6.0, powered by SAP NetWeaver, addresses industry-specific needs and is architected for adaptability. With the latest SAP ERP release, you can reduce operating expenses, streamline key business processes, boost user productivity, eliminate manual processes, and achieve better insights into all aspects of your operations. Newer versions of SAP applications supported by HP Integrity servers allow you to set new standards in reducing the effort and costs associated with the integration of business processes in a heterogeneous system landscape that may be geographically dispersed. Newer versions of SAP also let you connect more users, information, and business processes across technological and geographical boundaries. For example, SAP ERP 6.0 supports Unicode, which allows you to deploy SAP in multiple languages—enhancing your ability to do business globally. It also permits the integration of SAP and non-SAP applications with the help of SAP NetWeaver 2004s—a significant benefit if you've purchased different SAP and non-SAP applications over the years and would like to share data seamlessly. If you seek the benefits of a service-oriented architecture (SOA) without risk and disruption, SAP ERP 6.0 provides an evolutionary path to enterprise SOA. Finally, SAP ERP 6.0 allows you to run a variety of new vertical applications from SAP that are industry-specific in terms of capabilities and execution. This means a significant reduction in the amount of customization compared with what was previously required to make SAP work for specific industries and customers—so maintenance is simplified and workflow processes are streamlined. By transitioning your PA-RISC architecture-based environment to the HP Integrity platform, you will make your IT infrastructure SAP ERP 6.0 ready.

## HP Integrity systems feed the growing appetites of your most demanding applications

From a technology perspective, upgrading to SAP ERP 6.0 requires significant additional CPU, memory, and storage resources due to the software's extended functionalities. From 2007 onwards, new SAP releases will support only 64-bit server operating systems.<sup>1</sup> Also as of 2007, new releases of SAP NetWeaver and applications will no longer support non-Unicode systems.<sup>2</sup> The conversion to Unicode alone will require 10% to 30% more CPU and 50% more memory resources. If you are still running your SAP environment on legacy servers, now is the time to begin planning your upgrade to the standards-based HP Integrity platform. HP Integrity systems will modernize and optimize your IT infrastructure and provide the required computing power and storage capacity for the higher performance and growing data volume of SAP ERP 6.0, while protecting your previous IT investments with available in-cabinet CPU and memory upgrade modules for most HP 9000 servers and AlphaServer systems installed. With an HP Integrity infrastructure, you can flexibly and dynamically increase your computing, memory, and I/O resources when you need them most.

HP Integrity servers, powered by Intel® Itanium® processors, are the most trusted systems for the world's largest (and smallest) businesses whose operations are mission-critical. If your global operations can afford little or no downtime and require best-in-class performance with respect to system availability and resource allocation, then HP Integrity systems are the right choice for you. By deploying SAP applications on HP Integrity systems, you can experience maximum system uptime, lower cost per transaction, outstanding control, and excellent system performance.

With the best scalable price/performance, these industry-standard systems offer the highest levels of reliability and continuous availability for your mission-critical environment. Locally and geographically dispersed clusters of HP Integrity servers and HP StorageWorks disk arrays with HP Serviceguard Extension for SAP (HP-UX and Linux environments) or Microsoft Cluster Server and HP Cluster Extension Software (Windows environments) maximize single- and multi-system availability and promote disaster tolerance for HP-UX, Windows, and Linux operating-system environments. The HP Integrity server's superior multi-OS capabilities and effortless scalability provide you with true infrastructure flexibility. Because HP Integrity servers also feature unique HP management solutions such as Systems Insight Manager (SIM), you can further streamline IT operations and reduce TCO.

As one of the largest technology partners for SAP, HP is certified as a Global Technology Partner, SAP Software Partner, Global Support Alliance Partner, Global Service Partner, SAP Hosting Partner, and SAP Global Partner Hosting—SAP Adaptive IT Provider, Gold Level. Whether you are planning a simple technical upgrade, adding new functions to your SAP system, or seeking a platform for consolidation beyond the SAP application landscape, HP delivers excellence in all the disciplines you will need for a smooth and cost-effective transition. You don't have to take our word for it, however. Listen to customers such as Yodobashi Camera Company, which chose to deploy SAP on HP Integrity servers based on system performance and the deep technical and business expertise HP offers, or listen to Air Products and Chemical Inc., which created a much more agile, cost-effective SAP infrastructure by replacing their IBM S/390 mainframe and DB2 architecture with HP Integrity servers running Microsoft Windows and SQL Server. The scalable, cost-effective, and energy-efficient HP Integrity servers at Air Products also allowed the company to expand its SAP solution to meet the tremendous growth in its Asia branches.

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<sup>1</sup> SAP customer letter (April 2006): Future versions of SAP applications exclusively in 64-bit and Unicode after 2006

<sup>2</sup> SAP Note: 838402

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# A smooth path to HP Integrity systems—the HP 9000 Evolution Program

Taking a safe, step-by-step approach, HP and HP channel partners lead you through the process of transitioning your PA-RISC processor-based HP 9000 systems to an HP Integrity infrastructure. For each phase of the transition, HP is the ideal partner to support your upgrade to the newest SAP ERP releases—together

with the IT infrastructure that you are likely to need to support it. HP gives you a clear and easy path, whether you are transitioning from an older version of SAP software or replacing your legacy applications with an SAP environment. HP transition consultants will support you with personalized consulting sessions. To further minimize risks associated with the transition, HP provides you with access to online Test Drive systems that allow you to conduct extensive regression testing of the new environment prior to cutover.

At HP we take a two-pronged approach for your platform transition from HP 9000 (PA-RISC) systems to HP Integrity systems:

## Cost-effectiveness

The HP 9000 Evolution Program offers great incentives, promotions, comprehensive resources, and services for a smooth and cost-effective transition to the Integrity platform, including:

- In-chassis upgrades of cell boards
- Services and software tools to better plan and perform transition project
- Personalized consulting sessions
- HP value recovery solutions
- Use of loaner systems during upgrade
- Trade-in and trade-up programs
- No-cost license transfer
- Flexible financing options

## Minimized downtime

As thousands of satisfied customers worldwide attest, HP has the tools and experience to help you perform the transition to the HP Integrity platform:

- HP Smooth Transition Method (HP STM) accelerates database transition from several days of downtime to several hours, leaving your data-source untouched to mitigate risks and facilitate disaster-proof data recovery.
- Get a reliable calculation of planned downtime for any given source and target system.
- Mix-and-match PA-RISC processor-based HP 9000 and HP Integrity servers may be operated in mixed clusters.
- Gain the flexibility to keep productive systems running and replace older systems one by one.
- Ready to deploy: Proven Integrity Reference Configurations for SAP are designed and based on thousands of real customer implementations.

For most midsized SAP system environments with an Oracle® 4 TB–6 TB database, the transition is often completed in 12 hours or less.

Hundreds of customers using the HP Smooth Transition Method have experienced these benefits:

## Fast and safe database transition

- Migration delivered on time and within project timeframe targets
- Confirmable accuracy and completeness of data
- 3 to 5 times faster than SAP R/3 workloads
- Average database transfer time 8–24 hours
- Fallback to original data source possible

## Higher performance for SAP systems

- Response times shortened by up to 50%
- Up to 40% free storage space
- Faster backup and recovery
- Software remains on customer's system for continuous database reorganization.

“We’re running one of the world’s largest single global instances of SAP ERP on Windows...this provides us with an unparalleled ability to interact with our global customers and suppliers in a common, efficient fashion regardless of where they are located...”

Bob Elward, Director, Client/Server Engineering, Global IT Infrastructure Services, Air Products and Chemicals, Inc.

## The Integrity server advantage

### **Improve efficiency of IT operations**

You can decrease support contract cost, administrative effort, and overall cost of operations by consolidating many SAP application servers into fewer, more powerful HP Integrity systems. With scalability of up to 128 processors, multi-OS capabilities, a complete partitioning continuum, workload management, and a sophisticated virtualization environment, HP Integrity servers support SAP consolidation affordably.

HP Integrity systems provide the highest levels of usable I/O, memory, and system bandwidth of any industry-standard system in the marketplace today. Many of our HP Integrity customers are even consolidating their SAP ERP and business warehouse database applications into a single instance, on a single server, in a single partition.

### **Achieve the productivity you need for your business**

HP offers a comprehensive set of tools for integrated management and highly flexible operations, including clustering and virtualization solutions, broad partitioning capabilities, and powerful management software. Leading virtualization solutions such as the comprehensive HP Virtual Server Environment (VSE) and the HP Virtual Infrastructure Solutions (VIS) for SAP provide a flexible and adaptive computing environment for SAP. HP Systems Insight Manager (SIM) is an effective, unified infrastructure management tool. When used in conjunction with value-added plugins such as HP Integrity Essentials, HP Storage Essentials, and HP Service Essentials, Systems Insight Manager is a comprehensive, easy-to-use platform that enables you to holistically control your entire IT infrastructure.

### **Conserve your IT budget while you grow**

The ability to expand and upgrade your server platform so that it grows along with your business is extremely important for all enterprises. You get this with the HP Integrity platform—and more as well: for even greater flexibility, you can choose the HP Instant Capacity (iCAP) solutions program or the HP Pay-per-use (PPU) pricing model to provide you with added capacity at month end or year end—when you need it most. With HP Integrity systems, you will have a cost-effective way to maintain performance for legacy SAP environments as well as increased computing power and storage capacity to support new SAP ERP applications and user services.

### **Keep your business running with predictability**

HP is the industry leader in business-critical technology and services. The proven Intel Itanium architecture of HP Integrity servers provides built-in high-reliability and serviceability (RAS) features. With HP Serviceguard, you can monitor the health of your mission-critical systems and respond instantly to a wide range of failures, minimizing or eliminating application downtime. HP Serviceguard Extension for SAP extends the powerful failover capabilities of HP Serviceguard for SAP environments. It allows a group of PA-RISC-based systems and HP Integrity servers to be configured as a highly available cluster that supports globally dispersed SAP environments. HP Cluster Consistency Monitor Service (CCmon) for SAP delivers a diagnostic tool that spots potential disruptions to critical applications running on HP Integrity clusters. Both HP Serviceguard and CCmon are tightly integrated to exploit the best features of HP enterprise clusters and SAP applications—high availability, data integrity, flexibility, scalability, and reduced database

“We picked HP because we are able to ask them to handle everything from products, consulting before delivery, to management support after delivery in a large scale and multivendor system.”

Kazunori Fujisawa, Executive Director of Business Head Office, Yodobashi Camera Company



administration costs—so you can take back your nights and weekends and rest assured that your operation will run predictably.

For Windows SAP environments, you can create locally and geographically dispersed clusters for high availability and disaster tolerance using HP Integrity servers and HP storage with Microsoft Cluster Server and HP Cluster Extension Software. Unique HP Compute Cluster Services allows application stacking and seamless failover for SAP Windows customers—and is the only SAP-certified failover solution for Windows SAP environments in the industry.

#### **Smooth transition to SOA**

Moving from PA-RISC based systems to the HP Integrity IT infrastructure represents an important step towards a service-oriented environment—the latest mega-trend in the industry. HP Services for SAP enterprise SOA help you to plan, architect, design, implement, and manage your SOA environment with an integrated set of software and services designed to help you establish a practical, flexible, and incremental approach to deploying SOA governance, quality, and management across your organization.

#### **Flexible finance options and tailored solutions**

HP helps you achieve a quick, efficient, and cost-effective upgrade, migration, and consolidation path to HP Integrity servers. Choose the solution that is right for you from the industry's broadest portfolio of servers, storage, network solutions, and services for the design, implementation, and operation of your SAP enterprise environment. Benefit from a wide range of flexible finance options to experience the HP Integrity platform advantage.

## For more information

For more information on HP Integrity systems and the HP 9000 Evolution Program, contact your local HP sales representative, your HP-SAP channel partner or visit:

[www.hp.com/go/integrity](http://www.hp.com/go/integrity)

[www.hp.com/products1/evolution/9000/](http://www.hp.com/products1/evolution/9000/)

For a complete overview of HP solutions for SAP ERP, see:

[www.hp.com/go/sap](http://www.hp.com/go/sap)

[www.hp.com/go/sap/integrity](http://www.hp.com/go/sap/integrity)

To learn more, visit [www.hp.com](http://www.hp.com)

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