

HP Storage and Servers with Microsoft

Solutions brief



“The partnership between HP and Microsoft was really what allowed us to pursue new levels of connectivity and mobility for our hospital’s staff. Additionally, the confidence we have in HP equipment contributed greatly to our ability to commit resources to and implement this project.”

Erica Barnett

Systems/Exchange Administrator, Northwest Hospital & Medical Center

When it comes to getting more value from your existing IT investments, or capitalizing on next-generation technologies, it all comes down to empowering the people that power your business. That’s why HP and Microsoft® Solutions for the People-Ready Business—an expanded portfolio of solutions that enhance business agility—focus on giving employees the technology and services they need to succeed.

HP and Microsoft have been working together for over 20 years to develop and deliver powerful and reliable solutions for the enterprise. With the next generation of Microsoft Office Sharepoint® Server 2007, Microsoft Exchange Server 2007, and upcoming Microsoft SQL Server™ 2008, combined with HP StorageWorks, HP ProLiant and Integrity servers, HP Services, and HP Software, HP offers unmatched support and the broadest offering for customers. This provides you with the confidence that HP will provide world class products and services and to help you realize the full value of your Microsoft investments.

HP and Microsoft are committed to your business success.

With more than 20 years of combined marketplace leadership, the HP-Microsoft Frontline Partnership (FLP) is one of the longest standing of its kind in the industry. HP and Microsoft are committed to providing proven frontline innovation for the way you run your business, for the way you work, and for the way you experience and use technology.

Leverage our experience to your business advantage

For over two decades, HP and Microsoft executives, engineers, and sales and service teams have worked side by side to research, develop, test, implement, and

support solutions that meet your most demanding business objectives and help you drive new business development efforts.

HP solutions engineering teams provide extensive testing of Microsoft applications on HP storage and servers. Based on that testing, numerous best practices documents, sizing tools, and planning calculators are created to help you determine the best solutions configuration to meet your business requirements.

“Offering customers a venue to work directly with our developers to ‘road test’ business solutions is the goal of Microsoft’s Enterprise Engineering Center (EEC). Close partnership with market leaders like HP is a key component to the EEC’s success. Offering enterprise class platforms like the HP Storage Works XP12000 array, along with the horsepower of HP’s Superdome server, gives our customers the unique opportunity to test new IT solutions.”

John Cressey

Program Manager, Microsoft Enterprise Engineering Center

See HP technology in Microsoft Centers

As part of the Frontline Partnership, HP places servers, storage, and software in Microsoft Centers around the world so customers can see the equipment and use it for testing. This includes twelve Microsoft Technology Centers (MTCs), plus the Microsoft Partner Solution Center (PSC) and the Microsoft Enterprise Engineering Center (EEC), both located in Redmond, WA.



FRONTLINE PARTNERSHIP

Northwest Hospital (www.nwhospital.org), located north of Seattle, opened in 1960 as a nonprofit community hospital. Today, it has 281 licensed beds and more than 1,600 employees. Major clinical programs and services include: emergency services, critical care, cardiac care, stroke care, cancer care, childbirth services, bariatric surgery, rehabilitation care, diagnostic imaging, geropsychiatric center, Gamma Knife® Center, laboratory services, and education and wellness programs.

For Exchange Server 2007, the hospital purchased two ProLiant DL385 servers with dual AMD Opteron™ 64-bit processors, enabling greater performance and scalability with Exchange Server 2007. To support larger mailboxes and expanded messaging services, the hospital will add an HP StorageWorks EVA storage system, which will provide enterprise-class storage capabilities like dynamic storage resource allocation. Plans also call for implementing a clustered configuration of HP ProLiant servers.

“Today, e-mail is essential. It must be available 24x7. With the cluster, if we lose one server, it will fail over to another server in the cluster, and e-mail service will remain uninterrupted. The HP ProLiant server cluster will give us 24x7 availability for e-mail. That’s a big win.”

David Arose
Siemens Site Executive, Northwest Hospital & Medical Center

HP storage and servers capitalize on next-generation Microsoft technologies.

HP StorageWorks solutions for better business outcomes

The entire HP StorageWorks portfolio of direct-attached storage, ProLiant Storage Servers, Modular Storage Arrays, Enterprise Virtual Arrays, and mission-critical XP arrays is designed to work better with HP ProLiant and Integrity servers, while providing unprecedented reliability and performance.

HP StorageWorks solutions are completely integrated with Microsoft features: Storport Fibre Channel HBA drivers, MPIO Device Specific Modules, MOM Integration Storage Pack, and VDS/VSS Hardware Providers are all included. StorageWorks backup and recovery solutions include tape and virtual tape solutions, and Windows® Data Protection Server solutions. The File Serving Utility software is the only Windows-based Clustered Storage solution for new levels of scalability, reliability, and operational-efficiency for Windows file serving, file and print, and web serving environments.

And all our StorageWorks solutions are listed in the Microsoft Windows Server Catalog, including Device, Cluster, Multicluster, and Geocluster listings. In addition, HP offers a wide range of SQL storage sizing tools, whitepapers, and best practices with extensive SQL customer references case studies.

HP Integrity servers for mission-critical applications

When it comes to providing highly scalable business intelligence solutions for mission-critical environments, HP is a recognized leader.

Leading the way is the HP Integrity platform. Delivering innovation based on standards, HP Integrity servers provide a trusted platform for your most demanding workloads. Based on the Intel® Itanium® 2 architecture, these processing powerhouses provide outstanding

performance, best-in-class availability, and an unparalleled range of virtualization capabilities.

Thanks to the close collaboration between HP and Microsoft, the Integrity platform repeatedly achieves outstanding performance and scalability.

HP ProLiant servers for performance and value

If you’re looking for performance and value, look no further than the HP ProLiant platform. From ultra-dense server blades to a complete line of affordable rack and tower servers, the HP ProLiant platform continues to set the standard for reliability and value. In fact, HP works with Intel® and AMD™ to evolve the standard x86 architecture to handle greater workloads with enhanced performance, reliability, and scalability.

Today, ProLiant servers based on the AMD Opteron™ processor and the Intel® Xeon™ processor with EM64T technology provide increased value and flexibility for “scale-out” database applications across standalone, rack-mounted, and blade configurations. The HP BladeSystem, built on industry-standard components, delivers an integrated infrastructure for data centers requiring flexibility, virtualization, and operational efficiency.

Accelerate your business growth, reduce costs, and mitigate risks with an optimized enterprise infrastructure

Putting information to work continuously

Whatever the cause, downtime and data loss can have a devastating affect on the bottom line—no matter the size of your business. To keep your company protected, HP StorageWorks Solutions for Business Continuity and Availability provide options for the smallest business, with direct attach storage, to large enterprises, with multiple terabytes and hundreds of sites. We offer a continuum of solutions that can be deployed individually to solve backup and recovery needs, or easily combined to provide disaster tolerance solutions that help meet regulatory data retention requirements.

Standardize, simplify, and transform

Consolidation, especially storage consolidation, can help you transform your IT environment and dramatically increase your ability to add value to your business. Regardless of how you approach it, HP offers integrated consolidation solutions that can help your organization standardize and simplify your storage environment in a flexible, systematic way.

Capitalize on business information

In today’s fast paced environment, the ability to access important business information can make the difference in becoming a market leader or becoming lost in the crowd. The volume of e-mail, files, and databases is growing at an unprecedented rate, while the technologies used to manage this data change every 12 to 18 months.



Running Microsoft applications with confidence

For businesses today it is absolutely essential to have fast and reliable e-mail operations. Microsoft Exchange Server is designed to meet the messaging, collaboration, and mobility needs for businesses of all sizes. HP is one of the top providers of enterprise messaging and collaboration solutions based on Microsoft Exchange Server.

HP Sizing and Configuration Tool for Microsoft Exchange Server 2007

HP has a new Sizing and Configuration Tool for Exchange Server 2007. This powerful tool can help customers arrive at the right configuration to meet the size, performance, and availability requirements for their business.

Microsoft Exchange Server 2007

Microsoft has introduced a number of enhancements with Exchange Server 2007—improved I/O performance, support for larger mailbox sizes, new storage configurations with replication, support for x64 servers only, unified communications with support for phone and fax messaging, new server roles, and more. Enhancements of this magnitude can be challenging to implement. For example, how would you migrate your current Exchange 2003 environment to Exchange 2007? HP is trained, and has the experience and knowledge, to guide customers and simplify these challenges.

Microsoft Exchange Solution Reviewed Program (ESRP)

As part of the Frontline Partnership, HP is a partner in the Microsoft Exchange Solution Reviewed Program (ESRP). The program is designed to facilitate third-party storage testing and solution publishing for Exchange Server. HP has tested and submitted numerous ESRP briefs to Microsoft, which are now posted on the Microsoft ESRP web site. The products include HP Smart Array controllers, All-in-One (AiO) products, Modular Smart Arrays (MSAs), Enterprise Virtual Arrays (EVAs), and XP arrays.

Data Return (www.datareturn.com) provides enterprise-class strategic IT operations services to more than 250 leading companies around the world. Data Return is using HP ProLiant 64-bit servers and HP Modular Smart Array 1000 storage arrays with Microsoft Exchange Server 2007.

“HP ProLiant Servers and StorageWorks storage arrays give us a stable Exchange Server 2007 infrastructure that we can count on.”

Joel Stidley

Solutions Engineer, Data Return

to plan responses. That way—whether it’s expanding capacity or resolving issues before they become problems—you can stay in control of your environment.

Microsoft and HP: Optimized and highly available database solution for your business

Your database server is one of the most critical components in your IT infrastructure.

For organizations running Microsoft SQL Server, regardless of your business size, HP storage and servers provide a powerful platform to meet your needs. Combined with our supporting tools and technical resources, HP reduces the complexity and cost of planning, deploying, and operating your database.

Business Intelligence with Microsoft SQL Server 2005

SQL Server 2005 provides a robust set of Business Intelligence (BI) capabilities to keep business information at your fingertips for making critical decisions. HP provides BI consulting, proven methodologies and tailored BI solutions that can turn your data into intelligence that can be leveraged across the enterprise.

Highest level of availability for mission critical database

HP is a partner in the Microsoft SQL Server Always On Technologies program, the goal of which is to support mission critical applications with the highest level of availability. After all, any application downtime can impact your business, resulting in loss of revenue, increases in customer dissatisfaction, and damage to your company’s credibility. Under this program, HP’s StorageWorks Enterprise Virtual Array and HP’s StorageWorks mission-critical XP Array have passed careful review to meet the storage solution requirements of the Always On program.

HP offers comprehensive Information Lifecycle Management (ILM) solutions to help you define an effective ILM strategy and implement the associated technologies. HP ILM solutions can help you reduce the cost of managing ever-increasing amounts of data while simultaneously transforming it into relevant, accessible business information.

Solving critical business challenges

Looking for a better way to manage your demanding and all-too-often unpredictable IT environment? Then look to HP.

HP storage resource management solutions bring stability to your business environment. Whether securing resources, measuring quality of service, or managing through change, HP management solutions deliver the control you need to provide the right information to the right people at the right time.

HP’s approach helps simplify operations by enabling you to manage from the view that best meets your business needs. You can manage from a “single pane of glass” for a clear view of specific arrays, all storage, applications, or broad IT view. The choice is yours. In addition, event notification features give you more time

The Alberta Pensions Administration Corporation (www.apaco.ab.ca) is one of the largest Canadian public-sector pension administrators and faces enormous data gathering and retention requirements of up to 70 years for its members.

Designed by HP, their solution employs HP ProLiant DL580 servers, HP StorageWorks Enterprise Virtual Arrays, HP StorageWorks Enterprise Systems Library, Microsoft SQL Server, Microsoft SharePoint Portal Server, and more.

"HP is delivering a total solution, a comprehensive, integrated document management system that meets all our requirements. In the HP solution, Microsoft Office, Meridio, and SharePoint all work together hand in glove to help us serve our members and pensioners."

Janet Finlaison,

Chief Information Officer, Alberta Pensions Administration Corporation

HP Sizing and Configuration Tool for Microsoft SQL Server 2005

HP has a number of Sizing and Configuration Tools for SQL Server 2005—for transaction processing for HP ProLiant and Integrity Servers, BI for Integrity Servers, and more.

These powerful tools can help you arrive at the right configuration to meet the size, performance, and availability requirements for their business.

Finding, organizing and publishing information rapidly and effectively with Microsoft and HP

Microsoft Office SharePoint Server 2007 provides capabilities to meet business-critical needs like managing content and business processes, simplifying how people find and share information, and enabling enhanced business insight.

HP has characterized a typical business scenario providing performance results and recommendations on how to configure and size Office SharePoint® Server 2007 solutions in various ranges of business sizes, from a small business to highly available configurations (where high availability is deemed mandatory), to application optimized configurations (where high performance and continuity of business is a requirement).

Office SharePoint Server 2007 running on HP ProLiant servers and HP StorageWorks storage, with collaboration solutions from HP implemented by experienced HP Services consultants, can quickly turn your computer network into a knowledge network, bringing people, processes and information together to increase productivity and agility.

HP Services

HP Services has built one of the world's most skilled and specialized consulting workforces, dedicated to developing, delivering, and managing Microsoft-based solutions. Our consultants can help you reach the full potential of the latest Microsoft technology with HP breadth of product portfolio quickly and easily. With a seasoned workforce, including 23,000 Microsoft-trained and 3,400 Microsoft-certified HP professionals, they are ready to address your most challenging business requirements, including:

- **Microsoft Exchange Server solutions**
including Messaging & Unified Communications solutions
- **Microsoft SQL Server database solutions**
including Business Intelligence solutions
- **Microsoft Office SharePoint Server solutions**
including Collaboration and Content Management solutions

HP has the right level of support—when and where you need it—for your total Microsoft environment.

For more information on Microsoft software and HP Storage and Servers, visit www.hp.com/go/storageworks/windows or www.hp.com/microsoft.

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