



Microsoft® Exchange Server 2007

HP Solution brief for midsize businesses



To compete effectively and drive a profitable business, midsize companies such as yours require a tangible return on their technology investments. With limited IT resources, you must take a pragmatic, project-oriented approach. In short, you need a fast payback, solutions that are easy to deploy and manage, and ones that are both affordable and reliable.

As you invest in business-messaging solutions, HP makes sure that you get the most out of them with an application infrastructure you can count on. With our approach, you know what to expect—configurations on HP servers, storage, and software designed for midsize companies, optimized to meet your need for higher levels of business continuity, security, and operational efficiency.

You can count on HP, Microsoft, and local technology partners, Together on the Frontline, to deliver optimized solutions that are reliable and ready to meet your unique business needs. You can have the confidence that HP, Microsoft, and our partners will continue to support your business each and every step of the way. We deliver uniquely valuable technology experiences for your business through impressive technologies, a complete portfolio of total care services, and award-winning support.

By helping midsize businesses reduce risk, cut costs, and generate growth, HP and Microsoft—together with our partners—provide you with outstanding technology for better business outcomes.

Microsoft®



Microsoft Exchange Server 2007 helps you consolidate and standardize your messaging environment on a robust and proven platform.



Too much of a good thing?

What started as a convenience threatens to become a crisis. The problem is e-mail—too much of it. Worse, almost everyone seems to save nearly everything, overwhelming your storage. Much of your e-mail is too critical to delete. And tough new laws require you to store messaging records almost indefinitely. At the same time, your data security faces compromise ranging from hackers to system-wide disasters. Increasing volume, changing demands, and the need for constant e-mail availability combine to put a strain on IT resources that are growing right along with the size of inboxes.

This solution brief was written to help your business respond with simple, effective solutions offered by HP and Microsoft, together with our local partners, to help you achieve the successful business results you're working for.

Solution description

Microsoft Exchange Server 2007 helps you consolidate and standardize your messaging environment on a robust and proven platform. This solution helps address the special needs of mobile professionals by providing secure, reliable mobile messaging functionality that leverages existing messaging infrastructure investments.

This solution brief illustrates just one of the many Microsoft Exchange Server 2007 deployment scenarios built on the foundation of HP ProLiant servers and storage—solutions that you can trust to deliver an exceptional ownership experience. HP ProLiant servers provide simplified management for greater efficiency and optimum use of resources, built-in security, and a proven level of reliability and availability.

Why HP for Microsoft Exchange Server 2007?

To get the most from Microsoft Exchange Server 2007, you must build it on a rock-solid platform. And that means HP ProLiant and BladeSystem servers.

HP ProLiant and BladeSystem servers enhance the value of Microsoft Exchange Server 2007 by providing a cost-effective and easily managed service-oriented IT infrastructure that can scale dynamically to support any size business environment. With HP ProLiant platforms, you can simplify your business computing and lower costs while at the same time improving user service levels. The HP BladeSystem provides a highly efficient and flexible infrastructure controlled by common system management.

HP Care Pack Installation and Startup Services help ensure that your new HP hardware or software is installed smoothly, efficiently, and with minimal disruption to either your IT or your business operations.

Using the design principles of simple, affordable, and reliable, HP has developed a set of HP-approved example configurations for Microsoft Exchange Server 2007 based on servers and storage that are appropriate for midsize businesses. These configurations help take the complexity out of choosing the right infrastructure platform for your business, while meeting your needs for continuity, security, and efficiency.

Continuity

- Maintain high availability
- Manage risk
- Deliver against established service-level agreements
- Satisfy compliance requirements

Security

- Protect resources from external or internal attack or misuse
- Protect data from unauthorized access
- Benefit from solutions that are easy to use and transparent

Efficiency

- Reduce complexity and cost of infrastructure
- Reduce staff training requirements
- Improve responsiveness of IT team
- Adapt processes to customer priorities

HP-approved Microsoft Exchange Server 2007 example configuration—up to 250 users

When determining a proposed system's size, it's important to ask how much performance an average e-mail user requires. However, sizing for averages can lead to poor performance during peak periods, so additional capacity should be available for these demanding times. In addition to the level of activity among e-mail users, mailbox size is another sizing consideration. Because Microsoft Exchange Server 2007 performance is affected by managing larger mailboxes, they affect both your storage capacity requirements and your performance criteria.

HP ProLiant DL360 G5 Server
With a minimum of 4 GB RAM—provides a mailbox server, hub/transport, and client access server



Standalone deployment—up to 250 users

For Microsoft Exchange Server 2007 deployments with up to 250 users, a single ProLiant server can provide the key roles of mailbox server, hub/transport, and client access server. Depending on the disks and storage array selected, a typical mailbox size of 500 MB per user can be deployed. Several features can substantially increase the system's productivity and availability:

- Microsoft Exchange Server 2007 provides a rich messaging environment, including support for mobile users through the use of Microsoft Office Outlook Anywhere and Microsoft Office Outlook ActiveSync.
- The HP Smart Array technology provides high performance, protected storage that can be expanded to meet growing mailbox storage needs. Exchange data in Personal Storage Files (PSTs) can be moved to server-based storage and backed up online.
- By adding an additional storage array, the Exchange solution can be enhanced to provide business continuity through a feature called Local Continuous Replication (LCR).

Combining concentrated 1U compute power, Integrated Lights-Out management, and essential fault tolerance, the HP ProLiant DL360 Server is optimized for space-constrained installations. Quad-core and dual-core Intel® Xeon™ processors, DDR2 fully buffered DIMMs, and Serial Attached SCSI (SAS) and PCI Express technologies provide a high-performance system that's ideal for the full range of scale-out applications. What's more, the ProLiant DL360 G5 Server steps up the fault tolerance in an ultra-dense platform with redundant power, redundant fans, mirrored memory or online spare memory, embedded RAID capability, and full-featured remote Lights-Out management.

Additional HP-approved example configurations

HP has developed other configurations designed to improve storage efficiency and enhance networking for business continuity. Additional configurations have been designed to simplify change management with external storage to enable increased server capacity and Virtual Connect. Based on your specific needs, your local HP/Microsoft channel partner will customize a configuration that best suits your needs and objectives.

Related technologies and services

External storage options

The configurations shown in this brief include guidance on the recommended HP storage solutions and disk configurations for typical deployments, but only you can know your exact data capacity requirements. However, Microsoft Exchange Server 2007 is a highly expandable application platform. As a result, solution providers can create a customized application tailored to your needs.

The HP StorageWorks Modular Smart Array (MSA) family delivers simple, affordable technology that provides superior storage performance and enhanced investment protection. These robust solutions offer the best price/performance features for direct-attached environments, small clusters, and entry-level and midrange SAN environments. For more information, visit: hp.com/go/msa

HP Integrated Lights-Out 2 (iLO2)

HP iLO2 provides remote management, system health status check, power monitoring, and network connectivity cost reduction via high-speed shared network ports. It comes embedded with every HP ProLiant server.

HP Total Care

HP Total Care encompasses the complete life cycle of services, tools, and options that provide small and midsize businesses with a noticeably different and better experience. With HP Total Care, customers receive a full circle of personalized services for every stage of their business technology's life, from choosing it, to using it, to protecting it—all the way to retiring and recycling it.

Additional resources

HP Services can be a valuable partner in providing security-related services. For further information about HP Exchange solutions, including best practices and additional testing of HP StorageWorks or ProLiant products with Exchange, please see: www.hp.com/solutions/exchange

For more information about HP StorageWorks All-in-One Storage Systems, contact your local HP reseller, or see: www.hp.com/go/AiOStorage

For more information about other HP StorageWorks products, including dedicated NAS, SAN and data protection products, please visit: www.hp.com/go/storage

For information about Microsoft storage technologies and building blocks, see: www.microsoft.com/storage

For general information about Exchange sizing and best practices, there are several white papers and planning tools that are free to download from: www.hp.com/solutions/activeanswers

To learn more, visit www.hp.com
www.microsoft.com

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4AA1-5114ENW, September 2007



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