



## IP Storage Consolidation with EMC Celerra

### Business Challenges

For years, small and medium businesses have accepted server-based storage—mostly because the storage came with their servers. However, the challenge with server-based storage is that a few small e-mail and database servers rapidly multiply into dozens (or sometimes hundreds) of servers. These servers then spread your critical information throughout the company. And with each new server, the time and cost required to adequately protect and manage your information grows exponentially.

As iSCSI fast enters the mainstream, companies who've traditionally defaulted to server-based storage are quickly recognizing IP storage as a simple, cost-effective way to consolidate information and generate more return for their IT investments.

### Solution Description

EMC® Celerra® IP Storage Solutions use standard TCP/IP networking to enable application servers to access a centrally managed, protected, and highly available storage system. For companies with a mix of Exchange, SQL, and Windows file servers, Celerra can provide them with an easy-to-deploy, Microsoft-certified iSCSI storage platform. An EMC Celerra solution not only significantly lowers costs through increased availability and utilization but also provides the piece of mind that your applications and data are thoroughly protected.

Now you can take advantage of EMC IP Storage Solutions to consolidate your company's information, reduce cost, and increase productivity.

### Solution Components

EMC Celerra IP storage systems offer customers an all-in-one IP storage solution to help them consolidate storage for their Exchange and SQL applications, as well as eliminate the need for separate servers for file sharing.

#### *EMC Celerra IP Storage Platform*

Choose the **Celerra NS Series/Integrated**—NS350 to NS704—for a single, affordable platform that consolidates file servers and application storage. All of the EMC Celerra systems deliver high availability and simplified management at an exceptional price.

EMC Celerra systems deliver high-performance iSCSI and NAS with dedicated **EMC CLARiON® CX** series networked storage for significant performance increases over direct-attached storage. All feature your choice of high-performance Fibre Channel and cost-effective ATA drives to meet the needs of your specific environment.

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## Full Suite of Software Functionality

**EMC Celerra Manager** software helps you get the best possible results with your EMC Celerra solution by bringing simple, intuitive, wizard-based management to your IP storage environments. Now you can configure, administer, and monitor your environment from a single Web-based interface—eliminating the need for a dedicated management workstation. And you can scale your capabilities as your management needs expand.

With **EMC Celerra Automated Volume Management (AVM)** you can get the most from your EMC Celerra solution by simplifying creation and layout of filesystem configurations. With just a few clicks, AVM will optimize volume and filesystem configurations for specific workloads.

**EMC Virtual Filesystem Technology** simplifies and automates the entire process of filesystem and iSCSI LUN provisioning and management.

For information protection, **EMC SnapSure™** software creates read-only copies of file systems and iSCSI LUNs. Snapshots can be used for online backups as well as quick recovery of deleted files.

For an even higher degree of information protection, **EMC Celerra Replicator™** creates a point-in-time, read-only copy of a production file system or iSCSI LUN on either a local or geographically remote Celerra system. EMC Celerra Replicator brings you efficient, point-in-time, asynchronous replication over your IP network.

**EMC Replication Manager/SE** takes care of snapshot and replication integration and management for both Microsoft Exchange and SQL, enabling you to back up on the fly, take copies of databases for testing, or recover from a second site in the event of an outage.

All EMC Celerra systems support standard **Microsoft MPIO** (Multi-Path I/O) functionality, providing multiple paths from the host to the external storage device. For details on Celerra and Microsoft iSCSI logo certification including MPIO, click on the link below.

<http://www.microsoft.com/windows/catalog/server/default.aspx?subID=22&xslt=globalsearch&qu=Celerra&scope=1>

## Questions and Answers

- Could you benefit from better utilization, management, and protection of your Exchange and SQL servers?
- Would you like to tap into the benefits of consolidation, but are concerned about having to invest in new resources and skills?
- Would you like to turn your IT spending into an investment in a foundation that can help you cost-effectively and efficiently grow over time?
- Would you like the opportunity to centralize and standardize your backup and recovery capabilities?

With EMC's broad range of Celerra IP Storage Solutions, your business can consolidate more information storage into a networked storage infrastructure. Regardless of your traditional server and storage deployment model—DAS, SAN, or NAS—IP storage consolidation presents a tremendous opportunity to realize the benefits of consolidated networked storage.

## Getting Started

For more information on EMC solutions for iSCSI consolidation, contact your EMC sales representative or Velocity<sup>2</sup> Partner representative, or visit [www.EMC.com](http://www.EMC.com).



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Solution Sheet  
H2123