



HP Delivers Powerful Deduplication Capabilities for Enterprise-class Data Protection

New HP StoreOnce solutions provide leading scale-out performance and high availability for data deduplication

VIENNA, Austria, Nov. 29, 2011 – HP today announced the industry's first large-scale deduplication appliance with fully automated high availability.⁽¹⁾

The [HP B6200 StoreOnce Backup System](#) delivers record performance by processing and restoring data at 28 terabytes (TB) per hour, more than three times the rate of competing systems.⁽²⁾

Data is doubling every 18 months, increasing operational and capital expenses while creating data protection challenges. Further, a distributed workforce can trap up to 50 percent of critical data in remote offices, contributing to operational complexities that require organizations to spend up to 70 percent of IT resources on daily operations.⁽³⁾

Enterprises are challenged by both the volume and diversity of data, including structured and unstructured “Human Information,” consisting of the ideas and concepts that people create to communicate instantly. The key to managing this carefully is an ability to reduce the storage capacity needed for protection while maintaining data availability.

The new HP B6200 StoreOnce Backup System, built on innovations from [HP Labs](#), the company’s central research arm, eliminates multiple backed up versions of the same information. This lowers storage capacity requirements by up to 95 percent and delivers rapid data recovery without impacting daily workflow.⁽⁴⁾

“Edison’s ongoing research shows that HP B6200 StoreOnce is the only enterprise-class deduplication appliance to offer high availability,” said Barry Cohen, chief technology officer and editor-in-chief, Edison Group, a technology research and product testing firm. “HP’s Autonomic Restart, combined with a scale-out architecture, eliminates forklift upgrades and

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provides industry-leading availability for big-data backups.”

In addition, HP StoreOnce deduplication capabilities are now embedded into [HP Data Protector software](#) providing clients efficient, high-performing backups with software-based deduplication that improves storage utilization across the enterprise.

[HP Data Protector](#) uses StoreOnce technology to accelerate data analysis and reduce memory and disk I/O requirements during the deduplication process. As a result, it uses up to 90 percent less random-access memory (RAM) than competing software deduplication solutions.⁽²⁾ This enables clients to improve overall application performance as competing solutions slow system performance due to high RAM requirements. With up to 1.8 TB per hour throughput, the solution can support high performance backup of large data sets.

“Accommodating exponential data growth is a key factor in minimizing time and risks related to backing up data,” said Radek Danielewicz, IT manager at Ultra Flex. “We are excited to see the new highly-scalable HP B6200StoreOnce deliver secure and persistent business continuity by backing up more data in less time along with scale-out capability that allows customers to add disk capacity to meet future needs.”

The new HP B6200 StoreOnce is part of HP’s vision for [Federated Deduplication](#) that enables deduplication solutions across the enterprise – from remote sites to the core data center – to seamlessly interoperate and communicate. Unique to HP, Federated Deduplication eliminates incompatible silos of deduplicated data created by legacy approaches.

Increased deduplication performance and capacity

The HP B6200 StoreOnce allows clients to minimize IT investments with scalability up to 768 TB, twice the capacity of the closest competing system, without downtime.⁽⁵⁾ Deduplication ratios of up to 20:1 or more provide effective storage of up to 10 petabytes. Features include:

- [HP Predictive Acceleration](#) reduces overall backup time, so end users maintain productivity, by using intelligent container matching technologies to accelerate data analysis resulting in throughput of up to 28 TB/hour.
- [HP Rapid Restore](#) increases the speed of data recovery, so business gets back online faster, through an optimized data layout that enables



files to be restored at 100 percent of backup throughput, up to six times faster than alternatives.⁽⁶⁾

- [HP Autonomic Restart](#) reduces business risk by detecting issues and redirecting backups to alternative hardware to prevent backup failure without manual intervention.
- [HP Adaptive Micro-Chunking](#) reduces cost and resources required for backup through the use of the industry's most efficient deduplication engine, which dynamically adjusts the size of matched data blocks averaging 4 kilobytes.⁽²⁾
- Remote backup and replication lowers costs and maximizes IT administration resources by automating data backup of up to 384 remote sites, 40 percent more than the closest competing system, and replicating data to a centralized data store managed from a single interface.⁽⁷⁾

Improved services for storage infrastructure

HP announced [new storage consulting services](#) for data center transformation to help clients minimize cost and optimize their storage infrastructures by improving information management. The HP Data Profiling and Tiering Services rank data by importance to the enterprise and then match that data to an appropriate storage solution. This leads to greater accessibility, improved performance and protection, and reduced costs.

The HP Data Archiving Service helps clients map out an effective archiving strategy to ensure data is easily accessible in the future. The HP Backup Efficiency Analysis identifies inefficiencies and root causes for customers experiencing service level impacts.

The HP B6200 StoreOnce Backup System is part of [HP Converged Infrastructure](#), a core element of an [Instant-On Enterprise](#). In a world of continuous connectivity, the Instant-On Enterprise embeds technology in everything it does to serve customers, employees, partners and citizens with everything they need, instantly.

Pricing and availability

The HP B6200 StoreOnce 48TB Backup System is available worldwide with a U.S. list price starting at \$250,000 for a fully usable entry system



from HP or channel partners.⁽⁸⁾

About HP

HP creates new possibilities for technology to have a meaningful impact on people, businesses, governments and society. The world's largest technology company, HP brings together a portfolio that spans printing, personal computing, software, services and IT infrastructure to solve customer problems. More information about HP (NYSE: HPQ) is available at <http://www.hp.com>.

- (1) "HP B6200 StoreOnce whitepaper," Edison Group, November 2011.
- (2) Based on HP internal comparative analysis of publicly available data from major competitors.
- (3) HP internal research.
- (4) Based on 20:1 deduplication.
- (5) Based on HP internal comparative analysis of publicly available data. HP B6200 StoreOnce Backup System's maximum configuration is 768TB. The maximum configuration for EMC Data Domain 890 is 384TB.
- (6) "HP D2D Test Validation Report," Evaluator Group, September 2010.
- (7) Based on HP internal comparative analysis of publicly available data. HP B6200 StoreOnce Backup System's maximum remote site fan-in is 384. EMC Data Domain GDA maximum remote fan-in is 270.
- (8) Estimated U.S. list price. Actual prices may vary.

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