Compaq StorageWorks™

Compaq High Availability Storage Solutions for the enterprise

Increased productivity

The advantages of *Compaq SANworks™* and *StorageWorks* remote replication solutions

→ Sophisticated remote copy and mirroring for Windows NT, Open VMS, *Compaq Tru64* UNIX and Sun Solaris platforms

→ Based on switched fibre technology for outstanding performance

→ Host-independent intelligence keeps replication traffic off your host network

→ Scales easily as you grow, protecting your investments

→ Unique bi-directional configuration enables both sites to be productive

→ *SANworks* Command Console provides an easy-to-use interface to configure, monitor and troubleshoot the entire system

In a Compaq customer survey based on 900 interviews, respondents said that over 70% of their Microsoft Windows NT applications were either business-critical or mission-critical.

Why is remote data replication a smart investment?

Downtime and data loss are costly in any computing environment. And for your most critical applications, they simply aren't an option. Compaq is addressing this and other enterprise storage challenges by providing ways to cost-effectively manage growing storage resources and provide improved access to data.

Increased connectivity is one of the most significant trends in enterprise computing, resulting in the need to move and share data among servers, regardless of their location. Data replication and data movement capabilities, combined with new SAN implementations, are the building blocks that address this trend.

Remote copying and migration has long been the standard for data protection in the mainframe world – providing absolute recoverability for a business's most important data.

Compaq data replication solutions extend that absolute data protection to non-mainframe environments, where critical applications run on standards-based platforms like Microsoft Windows NT and *Compaq Tru64* UNIX. Compaq data replication solutions enable data to be copied online and in real time to remote locations via an extended SAN.

Compaq remote data replication solutions are built on *StorageWorks* storage and switched fibre channel technology combined with *SANworks* Data Replication Manager (DRM) software, which facilitates data replication, data sharing and data movement between sites. Enterprises can deploy these solutions to maximize utilization of their IT infrastructure and the information it houses.

COMPAQ
NonStop™

Unprecedented flexibility

Compaq is optimizing these remote data replication solutions to meet the expanding needs of our customers. High-performance, uni-directional remote mirroring is supported across the building or across the country. And bi-directional configurations are available to eliminate hardware redundancy traditionally associated with disaster recovery strategies.

Regardless of how you configure your Compaq data replication solution, you can be sure it will provide the highest performance and lowest cost of ownership of any host-independent solution in the marketplace. It will not only minimize the time required to restart an application after an interruption; it recovers production time by increasing accessibility.

The following are two pre-tested configurations designed to address unique high-availability environments.

Departmental DataSafe

Thanks to host-independent intelligence and native switched fibre technology, the uni-directional Departmental DataSafe Solution offers high performance, low total costs and outstanding scalability compared to alternative data copy solutions. It can even be cost-effectively scaled down for use within a single site – for 24x7 availability and 100 MB/sec switched fibre performance within your facility's SAN.

Bi-directional data replication

This innovative configuration concurrently synchronizes data at two sites, so each site backs up the other while both sites stay productive.

While conventional data copy solutions keep one system on standby, this bi-directional system eliminates redundant, underutilized technology and boosts ROI from your storage assets.

→ The only remote copy solution for dual site operations
→ The highest performance of any remote mirroring solution
→ The only solution that supports creation of snapshots and clones

How does Compaq data replication work?

1. *SANworks* DRM software creates concurrent real-time copies of data at each site
2. In the event of a disruption, the user can reboot the alternate server and restart the application in minutes
3. The user can suspend the link between sites, concurrently create real-time clones or snapshots of data, then resume remote copy operation, at which time the data located at each site is automatically resynchronized.

Basic to business-critical – Compaq has it all

You can configure your Compaq data replication solution according to your precise requirements, from a close-proximity configuration to a fully bi-directional mirrored solution. *Compaq StorageWorks* offers a complete array of storage and network products – and expert global services – to meet your needs.

For more information on Compaq data replication technology, including *SANworks* Data Replication Manager software, visit www.compaq.com/products or call 1-800-344-4825.

Streamline operations with bi-directional data replication

→ Test disaster recovery plans without complex manual drills or disruption
→ Streamline backup, data warehouse loading and new application testing without disruption to primary operations
→ Eliminate downtime during scheduled maintenance such as system or host processor upgrades

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