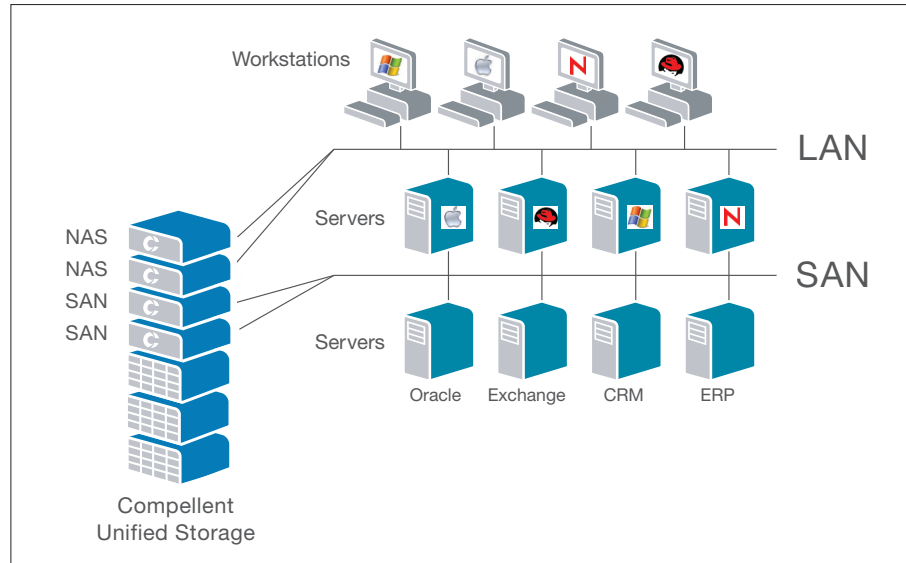## THE BENEFITS OF UNIFIED SAN AND NAS STORAGE

Combining block and file-level data into a centralized storage platform simplifies management and reduces overall storage cost and complexity. An effective unified storage system is easily integrated, scalable and offers enterprise features not typically available with file-level storage.

Unified Storage: *Storage Center with NAS combines block and file-level storage into a single shared system to lower storage costs.*

Enterprise-Class Storage Features at the File Level

Storage Center with NAS is a fully integrated networked storage solution that extends the benefits of storage consolidation across the enterprise. Now customers with file-level storage requirements can easily utilize all of the enterprise features of the Compellent SAN, including successive Replays (snapshots), automated tiered storage, thin provisioning and remote replication. This unified SAN and NAS solution delivers the high availability, scalability and end-to-end support that customers receive from a Compellent SAN.

Enterprise Storage Features at the File Level. Compellent's unified storage solution offers advanced management of file-level storage including snapshots, automated tiered storage and replication.

Lower Server TCO. Consolidate file servers onto a Storage Center with NAS to cut server costs, improve performance and increase manageability.

Implement in Minutes, Scale Rapidly. Easily deploy feature-rich file-level storage without network or system downtime. Manage from an intuitive interface and grow easily with Storage Center's modular hardware architecture.

Industry-leading SAN available with the benefits of NAS

KEY BENEFITS

» Unified storage simplifies management and cuts overall storage costs

» Easy integration delivers file-level storage in minutes

» Enterprise-class features at the file level provide data protection, increase utilization and cut overall storage costs

» Scale by adding file-level capacity without downtime

» Versatile connectivity options allow price/performance improvement

» Built-in multi-platform file sharing cuts administrative time

» Scalable and reliable solution delivers high availability

Windows Storage Server 2008

For More Information:
(866) 787-3271
Sales@PTSdcs.com

Traditional NAS implementations allow heterogeneous file sharing but don't typically offer the advanced block-level management capabilities available with a SAN.

PRODUCT FEATURES

Storage Consolidation Lowers TCO

Consolidating multiple file servers with NAS reduces overall server hardware, management overhead and associated IT staff costs. Compellent's unified SAN and NAS solution allows you to connect more servers to your SAN without added cost or complexity. In addition, servers can be connected to the Compellent SAN via Ethernet instead of costly Fibre Channel, cutting connectivity costs.

» Support for both Fibre Channel and iSCSI connectivity to the SAN provides a flexible, cost-effective solution

» Storage Center with NAS has lower upfront costs than a general purpose server and provides clients without any client licenses

» Single point of contact for entire end-to-end solution lowers management cost and complexity

Feature-Rich File-Level Storage in Minutes

Storage Center with NAS is designed to be quickly and easily deployed, allowing you to add file-level disk capacity or additional functionality without network or server downtime. This integration combined with an intuitive interface and remote management capabilities enable Storage Center with NAS to be implemented and managed in minutes.

» Built in support for CIFS, NFS and HTTP, HTTPS protocols enables out of the box heterogeneous file sharing

» Embedded Virtual Disk Service (VDS) Manager simplifies volume setup and mapping from the NAS interface

» Indexing service makes it quick and easy to search for files

» Single Instance Storage (SIS) automatically de-duplicates at the file level to save more than 35 percent of disk space and reduce storage management costs
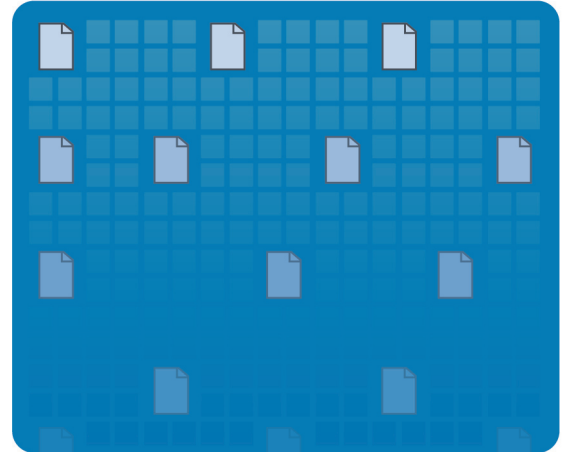

File Sharing Without Downtime: *Storage Center with NAS can be added and easily managed to enable heterogeneous file sharing capabilities.*

Enterprise Features Take NAS to the Next Level

Storage Center with NAS enables customers with file-level storage require-ments to leverage the benefits of Storage Center's Dynamic Block Architecture, including rapid recovery, automated tiered storage, thin provisioning and remote replication. A fully redundant hardware platform utilizes the reliable code base of Windows Storage Servers 2008, Enterprise Edition, and allows up to 16 NAS systems to be clustered to provide high availability.

» MPIO support is embedded to provide tight integration for availability, reliability and performance, allowing failover support via Fibre Channel or iSCSI connections

» NAS platform provides optimized file-level performance over general purpose servers

» Advanced virtualization speeds performance and allows file-level provisioning from a single, shared pool

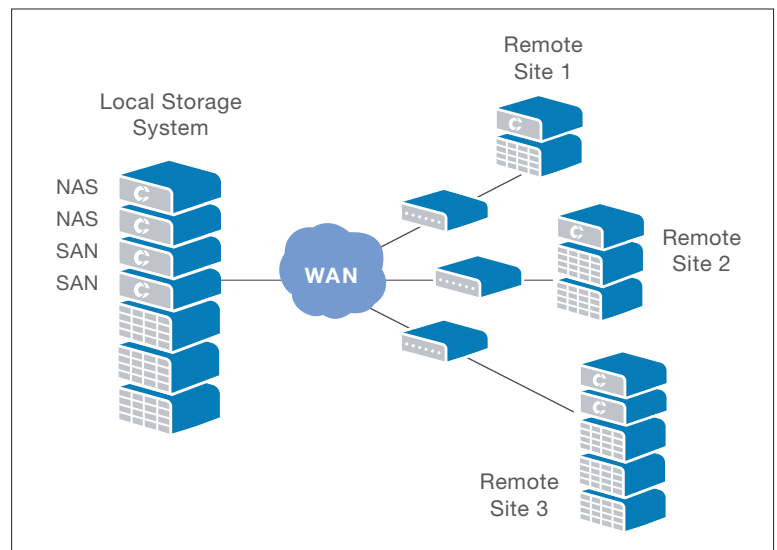» Thin provision files to take advantage of a high storage utilization rate

Powerful Storage Solution: *Both file and block-level data can be easily stored, managed and protected with this unified approach.*

Integrated Snapshots and Remote Replication Ensure Continuous Availability

With Compellent's Data Instant Replay, you can recover volumes to servers in less than 10 seconds. Using a simple point-and-click interface, administrators of all levels can create a high number of Replays (snapshots) to ensure rapid recovery of NAS files. With Remote Instant Replay, these Replays can be replicated to a remote location to provide disaster recovery.

» Increase level of service to your end users by recovering deleted files quickly

» Minimize system downtime from disk or server failures, viruses or human error

» Create a high number of Replays without performance degradation

» Setup remote replication in six clicks, verify disaster recovery online in just minutes while the replication is still in progress
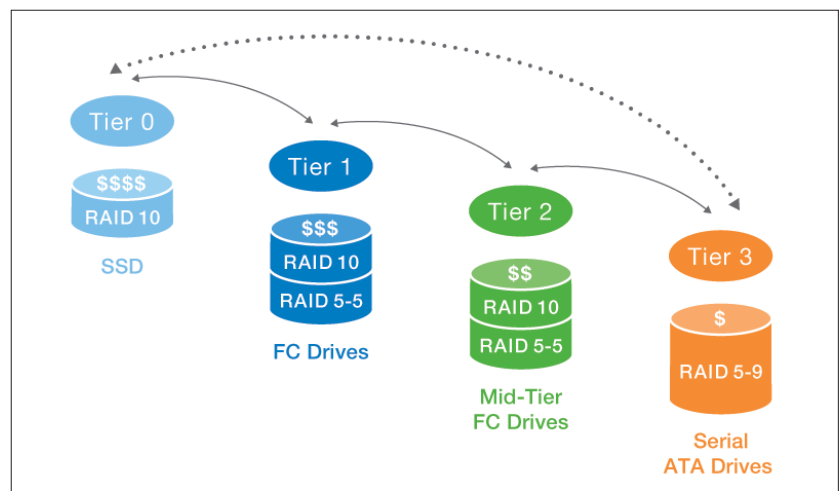

New Levels of Business Continuity: *Multi-site replication enables robust data protection without the need for matching configurations at each site.*

Automated Tiered Storage Lowers Disk Costs

Storage Center with NAS extends the benefits of block-level intelligence to file servers attached to the SAN. By utilizing the underlying blocks in NAS storage, Storage Center provides a block-level automated tiered storage solution. Compellent's Data Progression automatically classifies and migrates data at the block-level to the preferred tier of storage based on frequency of access. Frequently accessed data is retained on high-performance storage drives and infrequently accessed data is stored on lower-cost storage devices, thereby cutting disk expenditures.

» Metadata accurately determines the preferred data placement of both file-level and block-level data

» Fastest drives are automatically placed in a higher tier, slower drives in a lower tier

» Eliminates time consuming data classification and the repetitive, manual transferring of data between tiers

» Storage Center with NAS can take advantage of all the disks in the tiered pool; as new drive technologies become available, they can be added to the appropriate tier without downtime

Optimize File Storage: *Data Progression automatically retains frequently accessed data on high performance storage and stores infrequently accessed data on lower cost storage.*

Industry-Leading SAN Available with NAS

Storage Center with NAS offers integration of file-level and block-level storage on a single, unified platform to reduce overall management complexity and total cost of ownership. Storage Center with NAS allows file-level data to be easily expanded, managed in minutes and protected via snapshots and remote replication. In addition, Storage Center with NAS offers an automated tiered storage solution to automatically store data on the preferred tier of storage and cut overall storage expenditures.

SPECIFICATIONS

HARDWARE	
Chassis Form Factor	1U rack mount into standard 19" cabinets
CPU	Dual-core Xeon 5240 (3.0 GHz) processor
Memory	8 GB FB DDR2 RAM
Network Connectivity	
LAN	Dual 1 Gb Ethernet ports (on-board) & Quad 1 Gb add on NIC card
SAN	1 Dual port 4 GB Fibre Channel or 1 Dual port iSCSI
Hard Disk	None, boot from Compellent SAN
Peripheral Drives	CD/DVD ROM
High Availability	Redundant high efficiency power supplies
Dimensions	
Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	25.6" (650 mm)
Weight	46 lbs (20.9 kg)
AC Voltage	100–240V, 60–50Hz, 8–4 Amp

SOFTWARE	
Operating System	Windows Storage Server 2008, Enterprise Edition
Microsoft Multipath Support	Yes
Microsoft VDS Support	Yes
Protocol Support	Common Internet File System (CIFS), Network File System (NFS), Distributed File System (DFS) & Internet (HTTP, HTTPS) protocols
Clustering	Yes, up to 16 NAS servers can be clustered

COMPELLENT

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ABOUT COMPELLENT

Compellent is a leading provider of enterprise-class network storage solutions that are highly scalable, feature-rich and designed to be easy to use and cost effective. An all channel assisted sales model provides companies of all sizes enterprise storage capabilities without big system costs or complexities. Designed by network storage and virtualization pioneers, Compellent enables businesses to cut storage expenditures, recover from data hazards within minutes, scale across technologies and easily manage its storage without adding staff.

PTS
DATA CENTER SOLUTIONS

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