



DataCore & Huawei

Next Level Hyper-Converged and Software-defined Storage Solutions Combine State-of-the-art Huawei FusionServers with Proven DataCore Software

SOLUTION BENEFITS

The Huawei DataCore Software-defined Storage solution enables customers to maximize the value from their storage investments, current and future.

OUR JOINT SOLUTION:

Accelerates performance

Optimizes existing storage assets

Automates and centralizes storage management

Enables 'zero touch' continuous data availability

Supports Stretch Clusters & Disaster Recovery

In any data center, there are a number of different storage systems. Unfortunately, each class of storage brings different administrative interfaces and a different set of capabilities – each creating a separate data island to manage. There are also very pronounced variations across different storage systems; not only by manufacturer, but also between different models. This variability leads to frequent human errors, unmet service level agreements, poor capacity allocation and premature obsolescence. It also complicates how storage resources are allocated and managed.

To solve these challenges, DataCore Software and Huawei, two of the world's leading technology innovators, have joined forces to fulfill the customer need for fast, affordable and simple-to-use Hyper-Converged Solutions, Virtual SANs and end-to-end Software-defined Storage service platforms.

With DataCore software, Huawei's servers and storage products are now able to be easily pooled and integrated with existing storage from a variety of vendors, including EMC, Hitachi, HP, IBM and NetApp. DataCore's automated caching and tiering technologies also make it easy to leverage the power and resources of Huawei's servers to accelerate performance over a company's entire infrastructure of storage assets. This combination supports powerful features like metro-wide shared storage for clusters and business continuance, and automates the optimization, provisioning and migration of data storage across new or installed disk and flash-based technologies.

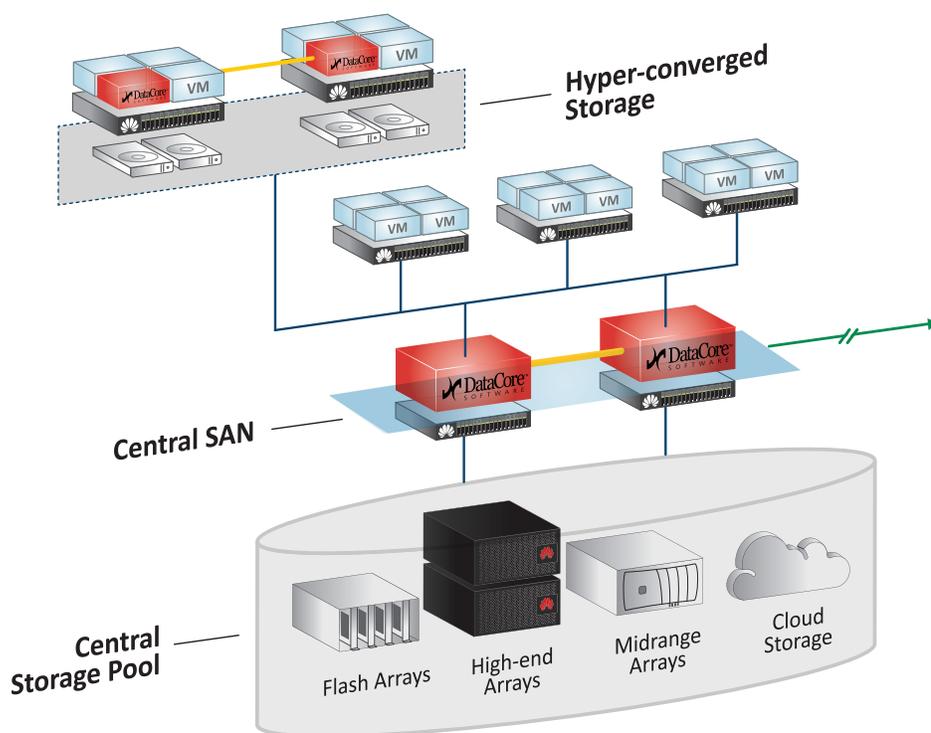
Another big trend in IT infrastructure is hyper-converged solutions. By combining the server and storage tiers into one, applications get better performance and deployment costs get dramatically reduced. Huawei and DataCore Hyper-converged solutions are a great option to provide reliable high-performance for latency sensitive applications. In addition, when remote sites need virtualized infrastructure to run a variety of applications, hyper-converged infrastructure provides one of the easiest and most cost-effective options for both servers and storage.

Automated Data Services Harness Disparate Storage Systems

To help you drive the most value from your storage investments, Huawei has partnered with DataCore to consolidate these disparate storage systems with unified management and a comprehensive set of data services. Additionally, Huawei's FusionServer and Oceanstor systems can be easily integrated with existing storage from a variety of vendors, including Dell, EMC, Hitachi, HP, IBM and NetApp using DataCore's comprehensive Software-defined Storage (SDS) platform. These storage systems can be centrally managed and easily combined into a single set of storage with different tiers of capacity in order to improve their overall productivity and utilization.

Huawei and DataCore: Complete end-to-end solutions

DataCore in combination with Huawei can now provide 100% Huawei hardware solutions, end to end, covering storage, network, and compute needs in order to provide complete datacenter solutions delivering state-of-the-art enterprise storage capabilities. These solutions provide enterprise-class storage features for both self-contained hyper-converged solutions as well as architectures that allow independent scaling of storage and compute, all connected by a Huawei-powered network fabric. Optionally, new Huawei OceanStor storage systems or existing legacy external storage arrays from third parties can also be easily integrated and managed as part of these combined solutions when needed to meet current or future business requirements.



1. Research results by TechValidate (www.techvalidate.com)

FEATURES

Continuous availability supported via synchronous mirroring between separate storage systems across multiple sites at distances up to 100 kilometers

Extensive automation results in up to 90% decrease in routine storage tasks

High-speed RAM caching accelerates read & write I/O performance by up to 10x

Auto-tiering across different classes of storage systems for fastest performance and up to 4x better utilization of resources

CUSTOMERS HAVE REPORTED UP TO¹:

100% reduction in storage related downtime

10x faster performance from existing storage

75% reduction in storage costs

4x better capacity utilization

90% less time spent on routine storage tasks

"In this digital age, businesses can grow very quickly and they need datacenter infrastructure that delivers scalability and improves resilience. With DataCore's expertise in software-defined storage and Huawei's experience in providing cutting-edge ICT infrastructure such as high performance servers, storage and SSD cards, our Hyper-Converged Solutions help businesses build a seamless architecture to compete in a fast-changing environment."

- Mr. Zheng Yelai, President of Huawei's IT product line



Powerful Solutions for Demanding Use Cases:

Huawei FusionServers and DataCore SANsymphony-V software combine to deliver the predictable performance, continuous availability and "plug and play" simplicity that organizations demand today. Common use cases, include:

Ideal hyper-converged solutions for Microsoft and mixed Hyper-V and VMware projects

Certified DataCore and Huawei FusionServer Series based hyper-converged solutions can be pre-installed with Microsoft server software. They are delivered optimized to support demanding Microsoft applications and virtualization projects as well as mixed Hyper-V and VMware environments running business critical applications such as Microsoft SQL server, Oracle, Microsoft Dynamics ERP, SharePoint, Exchange, SAP and VDI. These solutions are simple and quick to install and easy to use thereafter.

Metro-clustering for business continuity and disaster recovery

These hyper-converged solutions are currently scalable to 64 nodes, yet they require only two nodes minimum to provide fault tolerant data protection and data services. Two or more Huawei based server nodes can be used to pool external storage to easily form a stretch cluster over multiple datacenters. With this, organizations can reliably introduce DataCore's proven 'zero-touch' failover to provide mission critical resilience and non-stop data in disaster scenarios. Huawei and DataCore partners can easily enable a broader set of enterprise customers with application availability and mobility, regardless of storage infrastructure, by combining DataCore with Huawei technologies. Asynchronous replication can be enabled to provide further protection in DR scenarios, including failover to public cloud services.

Performance acceleration for mission-critical business applications

Huawei offers many Direct Attached Storage (DAS) hard drive and flash media options. Combined with SANsymphony-V software, these can be used to deliver data via Fibre Channel or iSCSI to external application clients or internally to applications or VMs inside the FusionCube Converged Infrastructure. DataCore's breakthrough write optimization technologies can accelerate random IOPS hard drive performance up to 30 times faster depending on workload to match performance associated with Flash SSD media capabilities. DataCore's realtime auto-tiering capabilities and 'heat map' visualization tools automate and simplify the movement and management of data hotspots to high-performance storage media and can be used to accelerate SAN storage with Huawei FusionServer and SSD technologies.

Infrastructure-wide storage services; hyper-converged plus external SAN pooling via Huawei for end-to-end connectivity & management

Modern IT infrastructures often contain a complex mix of incompatible legacy SAN arrays and emerging storage products. Storage systems can be easily connected to a DataCore-powered Huawei servers to eliminate separate data storage silos. Data can be easily replicated, migrated, and tiered across previously incompatible storage products while new products can easily be added on-line. Automated thin provisioning, allows capacity to be added efficiently, automatically or on-demand, as needed.

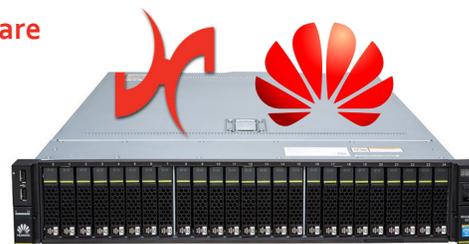
“Huawei and DataCore have joined forces together to fulfill the customer need for fast, affordable and simple-to-use Hyper-Converged Solutions and Virtual SANs that support legacy systems as well as new Microsoft virtualization and Hyper-V projects and mixed VMware ESXi environments running critical applications such as SQL, SharePoint, Exchange, SAP, Oracle and VDI.”

- George Teixeira,
President & CEO
DataCore Software



DataCore SANsymphony-V Software

SANsymphony™-V software is a comprehensive and scalable storage services platform designed to maximize the performance, availability and utilization of your IT assets, no matter how diverse they may be, or what topology you've chosen. The software runs in the data path and has visibility to all the read and write traffic generated by applications. It takes advantage of Huawei FusionServer high-speed RAM caching and the powerful x86-64 processors to turn around requests quickly, while automatically moving data between spinning disks and flash to optimize performance. Data is mirrored in real-time between separate storage systems to maintain continuous availability despite equipment and site outages.



Extensive automation frees system administrators to care for other parts of their infrastructure. DataCore supports all of the popular storage devices from flash and disks inside servers to central SAN arrays and public cloud storage.

Delivering Compelling Business Advantages

Hyper-converged for Small Footprint & Minimal Infrastructure: It is easy to set up a fully-redundant cluster with just two servers and inexpensive internal storage. That's all many ROBO sites, VDI deployments and application clusters require. Other alternatives require you to use a minimum of 3 or more servers, driving up costs by 33% and adding complexity. In addition, just 2 servers are needed for a stretch cluster versus other options that require many more servers. The 33% savings becomes especially significant when calculated across numerous sites and clusters.

Prevents storage outages from affecting applications: Synchronous mirroring with zero-touch failover and failback between any type of storage ensures that applications are not disrupted by storage or site outages. Easily migrate data between unlike systems, during production, without impacting applications.

Dramatically improves the performance of all applications: High-performance caching algorithms intelligently anticipate reads, evaluate usage patterns and transform random writes into sequential writes. In addition, auto-tiering capabilities dynamically match data to the most appropriate class of storage from the virtual pool.

Instantly reduces storage costs by increasing storage utilization and reducing management complexity: Eliminates wasted storage capacity by pooling all of your storage, regardless of make/manufacturer. Centralized management using a common set of commands across disparate systems, together with extensive automation reduces administrative time.



For additional information, please visit www.datacore.com or email info@datacore.com

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