HITACHI
Inspire the Next

DATASHEET

Choose Hitachi Content Platform (HCP) to:

- Digitally transform by bridging traditional and emerging technologies.
- Control data mobility across clouds and storage tiers.
- Sync and share data across offices and devices.
- Support archiving for compliance and content preservation.
- Gain insight from a best-in-class metadata architecture.

Hitachi Content Platform: Enterprise-Class, Backup-Free Cloud and Archive

Unstructured data growth and application proliferation continue to accelerate. These developments lead to increased server and storage sprawl, with numerous silos of infrastructure supporting traditional and new workloads.

Hitachi Content Platform is an object storage solution that enables IT organizations and cloud service providers to store, share, sync, protect, preserve, analyze and retrieve file data from a single system. It is more efficient, easier to use, and capable of handling much more data than traditional file storage solutions. HCP automates day-to-day IT operations like data protection and readily evolves to changes in scale, scope, applications, storage, server and cloud technologies over the life of data. In IT environments where data grows quickly or must live for years, decades or even indefinitely, these capabilities are invaluable.

Hitachi Content Platform eliminates the need for a siloed approach to storing unstructured content. The platform provides massive scale, multiple storage tiers, powerful security, Hitachi reliability, cloud capabilities, broad protocol support, multitenancy and configurable attributes for each tenant. It can support a wide range of applications on a single physical cluster and is backed by a thriving community of third-party software partners. With access to a robust ecosystem of cloud applications, Hitachi Content Platform can solve a wide range of current problems and adapt to meet future needs.

Flexible, Enterprise-Class Cloud

Hitachi Content Platform multitenancy divides the physical cluster into a variety of tenants. These tenants can be assigned to different IP networks and further subdivided into thousands of namespaces for additional organization of content, more refined policies, and robust access control. Openness is also a hallmark of HCP. It has a powerful native REST-based interface as well as Amazon S3 and OpenStack Swift compatible interfaces, permitting seamless WAN or LAN access for new and existing Web 2.0 and mobile applications. Further, it supports the NFS, SMB, SMTP and WebDAV protocols, and offers dual-stack support for IPV4 and IPV6.

The platform can handle all kinds of data and almost any application. It offers high reliability, massive scale, seamless data mobility and storage across private clouds and public cloud services, encryption, access control, easy provisioning, charge-back measurement and more. The HCP G series access nodes allow organizations greater flexibility to support mixed workloads with varying performance and scale requirements. These nodes virtualize capacity from Hitachi Content Platform S series nodes, local drives, Fibre Channel storage arrays, NFS shares and leading public cloud providers. HCP drastically reduces total cost of ownership and provides cost-effective storage with geographically dispersed erasure coding data protection for content that must remain behind the firewall. Such attributes enable IT to take advantage of cloud and deliver a whole new range of IT services, without compromising security and control of information.

Efficient, Backup-Free Archive

Hitachi Content Platform enables your IT organization to protect, preserve and retrieve data in a more efficient manner, without the need for tape-based backups. The high density of HCP storage is enhanced with built-in compression, single instancing and support for a variety of media to keep storage costs in control. With dynamic data protection, data integrity checks, data retention enforcement, erasure coding and many other technologies to preserve and protect content, HCP delivers compliance-quality data protection. It eliminates the need for tape-based backups.

Intelligent Structure for Unstructured File Data

Hitachi Content Platform enables trusted content mobility with full visibility of all the control points where data enters, exits and exists across a global IT landscape. It optimizes cost by providing the flexibility to maintain your critical data securely on-premises or in public clouds. It automatically moves content based on business value or your storage-related service level agreement

to the most appropriate storage tier. For example, content can be moved to Hitachi Content Platform S series nodes or cloud storage services, including Hitachi Cloud Service for Content Archiving, Amazon S3, Microsoft® Azure®, and Google Cloud Storage.

As shown in Figure 1:

- HCP G series nodes are access nodes.
- HCP S series nodes are optional and provide massive scale.
- Fibre Channel storage and cloud are optional.

With HCP, you have access to metadata and content search tools that enable more elegant and automated queries for faster, more accurate results. Through these features you can gain a better understanding of the content of stored files, how content is used and how objects may be related to one another. This understanding can help you to enable more intelligent automation, along with big data analytics based on best-in-class metadata architecture.

Hitachi Content Platform provides more capabilities, flexibility, configurability and input options for you to take advantage of cloud in your own way. It simplifies management via automation to ensure efficiency, reliability, data mobility and accessibility of your organizations' data. With HCP you can not only address today's challenges around storing and protecting data, but also set yourself up for the next big thing.

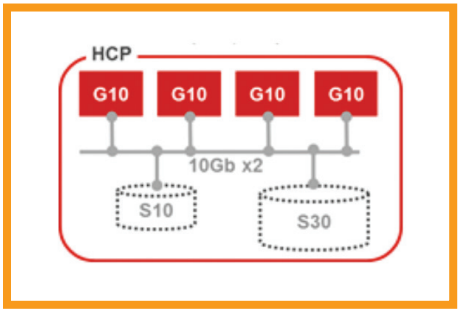

Figure 1. Flexibility of Hitachi Content Platform

HITACHI CONTENT PLATFORM IMPLEMENTATION SERVICE

Hitachi Data Systems provides consulting, implementation, migration and replication services to help you bring the benefits of Hitachi content solutions to your business-driven IT environment. In this implementation service, we can help you address data growth challenges, manage unstructured data throughout its life cycle, enable mobility, cloud and converged infrastructure strategies, and harness the value of your data with sophisticated search and analytics. Complementary services include Hitachi Content Platform Replication Service and Hitachi Content Platform Migration Service.

TABLE 1. HITACHI CONTENT PLATFORM SPECIFICATIONS

	Hitachi Content Platform (HCP) Line Card			
	HCP G10	**HCP VM**[1]	**HCP S10**	**HCP S30**
Node Type	Access storage		Economy storage	
Storage	DAS, SAN, cloud		DAS	
Disks	12 HDD x 4TB, RAID-6	VMDK or RDM	60 HDD x 10TB erasure code	954 HDD x 10TB erasure code
SAN (Fibre Channel)	80PB[2]	37PB[2]	N/A	
Cloud	Unlimited Amazon, Microsoft® Azure®, Google, S3[2]			
Scale	4 to 80 nodes	4 to 40 nodes	1 to 80 nodes	
Minimum	1TB	1TB	192TB	560TB
Maximum	1,008TB per node	944TB per node	560TB per node	9.4PB per node
All Nodes Total (raw)	800PB per site 4.8 Exabyte (6 site Geo-distributed erasure coding)			
Hardware	2RU per node	User supplied	4RU per node	16RU to 68RU per node
CPU and Memory	2 x 6 cores	4 to 8 vCPU	2 x 6 cores	4 x 6 cores
	64 to 256GB	16 to 256GB	64GB	512GB
SSD	2 x 800GB[1]	N/A	0	6 x 200GB
Networking	4 x 10GbE Base-T 4 x 10GbE SFP+[1]	4 x pNIC	4 x 10GbE SFP+[1] 4 x 1GbE management port	4 x 10GbE Base-T 4 x 10GbE SFP+[1] 4 x 1GbE management port

VMDK = virtual machine disk, RMD = remote device management, SSD = solid state disk, GbE = gigabit Ethernet, HDD = hard disk drive, RU = rack unit, vCPU = virtual CPU, pNIC = PCI (Peripheral Component Interconnect) Network Interface Controller

[1] Supported hypervisors include VMware ESXi and KVM
[2] Configuration options

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