

## Hydro One Telecom Can Help You Bring Structured Storage, Protection and Easy Retrieval to Unstructured Data

Hydro One Telecom provides an Object Based Storage Solution as part of its Backup as a Service (BaaS) suite of services to provide more capabilities, flexibility, configurability to benefit your business. With HOTS's Object Storage Service, you can not only address today's challenges around storing and protecting data, but also set yourself up for the continued explosive growth of data.

### Why Does it Matter?

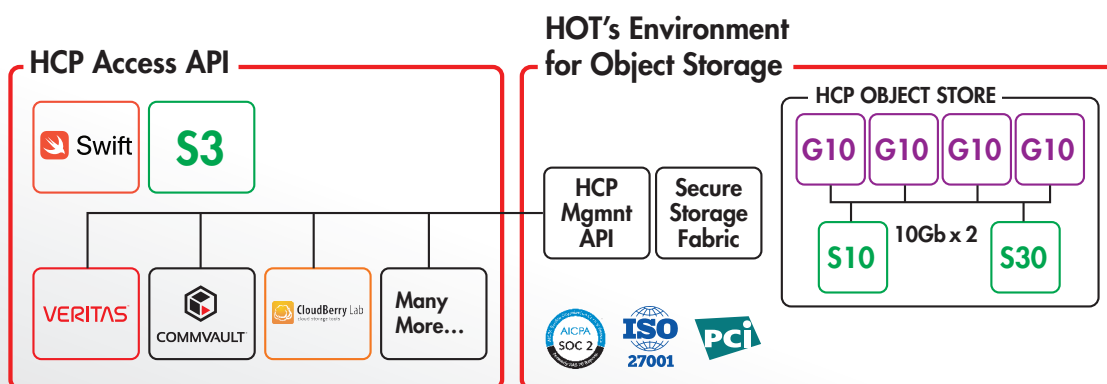
With the explosion of unstructured data and the proliferation of applications, servers and storage sprawl is resulting in silos of infrastructure for traditional and new workloads with your organization.

The HOTS Object Storage Service is a multipurpose distributed object-based storage system designed to support large-scale repositories of unstructured data. It enables its subscribers to store, protect, preserve and retrieve unstructured content with a single storage platform. This solution provides 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 the content is used, and how objects may be related to one another. This understanding will help enable more intelligent automation, along with big data analytics based on best-in-class metadata architecture.

### How it Works

Hydro One Telecom's Object Store Service provides secure, resilient, cost-effective and redundant storage for any data your applications produce or manage. The service is ideal for data archiving applications where accessibility and durability are higher priorities than performance, and cost is an important consideration.

The service maintains Amazon S3 compatibility so that applications capable of interacting with the Amazon restful storage API can be deployed on the HCP platform. A user interface for Object Storage can be provided by S3 explorers such as Cloudberry or S3 browsers and allow for management of buckets and files across the HOTS cloud and local storage.



To learn more about HOTS's Backup as a Service – Object Storage Service and other offerings, please contact us at [HOTSales@HydroOne.com](mailto:HOTSales@HydroOne.com) or (866) 345-6820 to speak with a Sales representative or visit us at

# HOT's Object Storage Service Specifications- powered by HCP

HOT's Object Storage Service Specifications				
	G10	VM1	S110	S30
<b>Node Type</b>	Access Storage		Economy Storage	
<b>Storage</b>	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
<b>SAN Fibre Channel</b>	80PB <sup>2</sup>	37PB <sup>2</sup>	N/A	
Cloud	Unlimited Amazon S3 <sup>2</sup> , Microsoft Azure, Google Cloud			
<b>Scale</b>	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)			
<b>Hardware</b>	2RU per node	User Supplied	4RU per node	16RU to 68RU per node
<b>CPU and Memory</b>	2 x 6 cores	2 x 8 vCPU	2 x 6 cores	4 x 6 cores
	64 to 256GB	16 to 256GB	64GB	512GB
<b>SSD</b>	2 x 1.9TB <sup>1</sup>	N/A	0	6 x 200GB
<b>Networking</b>	4 x 10GbE Base-T 4 x 10GbE SFP+ <sup>2</sup> management port	4 x pNIC management port	4 x 10GbE SFP+ <sup>2</sup> 4 x 10GbE management port	4 x 10GbE Base-T 4 x 10GbE SFP+ <sup>2</sup> 4 x GbE 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 = Peripheral Component Interconnect Network Interface Controller. <sup>1</sup> Supported Hypervisors Include VMware ESX/ESXi and KVM. <sup>2</sup> Configuration options.

## Features of HOT's Object Storage Services:

<b>Ensure Your Data Is Tamper Proof</b>	<ul style="list-style-type: none"> <li>• Ensure your data is Tamper Proof</li> <li>• Firewall, vulnerability scanned, IDS-data encrypted in flight &amp; at rest</li> </ul>
<b>Optimize Your Data Lifecycle</b>	<ul style="list-style-type: none"> <li>• Define your own data retention periods &amp; redundancy</li> <li>• Immutable storage (WORM) with 100% log retention of interactions</li> <li>• Incorporate true End of Life destruction with certification</li> </ul>
<b>Ensure The Service Is Cost Effective</b>	<ul style="list-style-type: none"> <li>• No hidden or unpredictable costs (egress, puts, gets, scans, retrievals, deletes)</li> </ul>
<b>Easily Find What You Looking For</b>	<ul style="list-style-type: none"> <li>• Full context indexing, including Meta data</li> <li>• Programmatically incorporate Search into App stack</li> </ul>
<b>Insulate Your Data From Disruption</b>	<ul style="list-style-type: none"> <li>• Leverages multiple storage nodes with option for geo-redundancy</li> <li>• Autonomic infrastructure isolates data from upgrades &amp; equipment replacement</li> </ul>
<b>Securely Share Your Data Between Application Environments</b>	<ul style="list-style-type: none"> <li>• Unique keys can be created for each data access client</li> </ul>

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