

Data Sheet

Virtustream Storage Cloud

Enterprise-class, hyper-scale object storage in the cloud.



The hyper-scale Virtustream Storage Cloud was built from the ground up for the enterprise. With industrial-strength 99.999999999999% (13 x 9s) durability, Virtustream Storage Cloud is built to surpass commercially available general-purpose cloud providers with enterprise-class capabilities for mission-critical and cloud-native applications and workloads.

Enterprise-Class Storage Cloud

Virtustream Storage Cloud was conceived and architected with the enterprise in mind. Features such as uninterrupted read access in the event of an unplanned outage ensures the availability enterprise customers expect, but with the benefits of cloud economics. With cloud adoption becoming more commonplace, businesses are looking for enterprise-class cloud providers such as Virtustream to meet their storage needs for business-critical applications and services.

Virtustream Storage Cloud has been built as a seamless extension for primary enterprise storage and backup. Enterprises can extend their on-premises storage to off-premises public cloud for long-term backup retention, data tiering and cold/frozen storage, optimizing costs and increasing resilience and availability. Additionally, customers can leverage the platform as a powerful object storage solution for cloud-native applications.

Industrial Strength Service Offerings

Virtustream Storage Cloud is available in four service offerings to meet a variety of use cases and customer needs.

Standard: Objects are ingested into a single region with data being protected within that region only. This service is best used when data needs to be readily available and online but does not require the same level of protection provided by Premium.

Standard – Infrequently Accessed: Objects are ingested into a single region with data being protected within that region only. This service is best used when data needs to be online but does not require the same level of protection provided by Premium. Standard – Infrequently Accessed is suitable for long term archival and data that will not be accessed much.

Premium: Objects can be ingested into multiple regions with data being protected across all regions. This service is best used when data needs to be readily available, online, and protected across an entire geographical area such as the US or Europe.

Premium - Infrequently Accessed: Objects can be ingested into multiple regions with data being protected across all regions. This service is used when data needs to be online and protected across an entire geographical area such as the United States or Europe. It is suitable for long-term archival and data that will not be accessed much.

Use Cases for the Modern Data Center

Virtustream Storage Cloud supports a number of use cases including the object storage needs of mission-critical lines of business and cloud-native applications. It also supports archive and backup at scale in the cloud.

Dell Technologies and Virtustream for the Enterprise

Dell EMC and Virtustream provide a unique value proposition with enterprise-class on-premises Dell EMC primary storage and enterprise-class off-premises Virtustream Storage Cloud, for cloud tiering of cold data and for the long-term retention of backups to cloud. From the data center to the public cloud, Dell Technologies and Virtustream provide:

- Simplicity in consumption and management
- Enterprise-class performance
- Hyper-scale capacity for very large data stores
- Efficiency in data transport and storage to lower costs
- Security whether on-site, in-flight, or at-rest
- Seamless, single-source billing and support

Cloud Tiering of Cold Data

Dell EMC VMAX, XtremIO, Unity, and VNX: Tier data to the cloud to reduce on-site Dell EMC VMAX and other primary storage footprint while maintaining optimal performance through on-premises client-side caching and

Built-in resiliency provides industry-leading

99.999999999999999%

durability

Uninterrupted read access minimizes any business disruption in the event of an unplanned outage

Unique load-balancing technology supports hyper-scale data needs

On-going certifications and third-party audits address internal compliance and regulatory requirements

AWS S3 compatible REST API enables integration with mission-critical and cloud-native applications

On-premises primary storage support for off-premises cloud moves data seamlessly and efficiently to the cloud for cloud tiering of cold data and LTR of backups

Subscription-based pricing makes it easier to budget and plan expense than consumption-based models



Virtustream Storage Cloud. Dell EMC CloudArray helps organizations scale their storage networks by extending on-premises physical storage such as Dell EMC VMAX with on-demand cloud capability from Virtustream Storage Cloud. Customers can easily integrate Dell EMC VMAX with Virtustream Storage Cloud and move files and other data into the cloud through traditional SAN interfaces. Use with VPLEX to enable a cloud pathway to Dell EMC XtremIO, Unity, and VNX, and many third-party storage arrays.

The combination of Dell EMC storage with Dell EMC CloudArray and Virtustream Storage Cloud reduces on-site primary storage footprint while maintaining optimal performance as it archives data to cloud. Client-side caching speeds reads and lowers bandwidth costs. Deduplication and compression further lower costs to improve overall return on investment (ROI) and total cost of ownership (TCO).

Dell EMC Isilon: Dell EMC Isilon with Isilon CloudPools provides off-cluster tiering to cloud storage, as an extension of SmartPools, which enables multiple tiers of Isilon scale-out NAS nodes to exist within a single file system. Customers can use CloudPools policies to govern the placement and retention of tiered files to an object storage service.

CloudPools with Virtustream Storage Cloud reduces on-site storage footprint and costs by moving cold data to the cloud. CloudPools shards data and breaks it into chunks that only it understands so data is protected even when stored off-premises.

Use Dell EMC primary storage and Virtustream Storage Cloud for seamless, single-source billing and support from data center to cloud.

Long-term Retention (LTR) of Backups

Dell EMC Data Domain with Data Domain Cloud Tier: Use Dell EMC Data Domain Cloud Tier to automatically move backup data directly from Dell EMC protection storage to Virtustream Storage Cloud for seamless, cost effective long-term backup retention with a subscription-based

object storage service. No separate cloud gateway or virtual appliance is required. Customers do not have to worry about any additional physical footprint or management overhead. Dell EMC Data Domain Cloud Tier with Virtustream Storage Cloud enables cost-effective, long-term retention for the modern data center by only sending unique data directly from protection storage to the Virtustream cloud. Data lands on object storage already de-duplicated. With an average dedupe ratio of 10 – 30x, up to 51 petabytes of logical capacity can be protected in the cloud on hyper-scale cloud object storage. Protecting more data in a smaller footprint greatly reduces overall TCO and as more data is sent to Virtustream Storage Cloud, cost savings continue to increase over time. Data security in the cloud is a huge concern for many customers. Use Data Domain and Virtustream Storage Cloud to ensure data remains secure with the ability to encrypt and lock data before tiering it to the cloud. Use Data Domain Cloud Tier with Virtustream Storage Cloud for a seamless, single-support experience from data center to cloud.(Note: this offering will be available in Q3 2016 from EMC.)

Dell EMC Data Protection Suite: Tier backup data from Dell EMC protection software to Virtustream Storage Cloud for long-term backup retention. The combination of Dell EMC Data Protection Suite software, Dell EMC on-premises data protection storage, Dell EMC CloudBoost, and Virtustream Storage Cloud enables secure, efficient, and cost-effective long-term retention of backups with a subscription-based object storage service. Customers install the CloudBoost physical or virtual appliance to cloud-enable Dell EMC backup software and move data to Virtustream Storage Cloud.

This combination eliminates the need for tape while maintaining performance through CloudBoost Site Cache and features such as source-side deduplication, compression, and WAN optimization that speed long-term backup and restore operations while reducing network costs.

Use Dell EMC Data Protection Suite with Dell EMC CloudBoost and Virtustream Storage Cloud for seamless, single-source billing and support from data center to cloud.

About Virtustream

Virtustream, a Dell Technologies Business, is the enterprise-class cloud service and software provider trusted by enterprises worldwide to migrate and run their mission-critical applications in the cloud. For enterprises, service providers and government agencies, Virtustream's xStream management platform and Infrastructure-as-a-Service (IaaS) meets the security, compliance, performance, efficiency and consumption-based billing requirements of complex production applications in the cloud – whether private, public or hybrid.

