Corporate Overview

AmpliStor: Optimized Object Storage for Big Data

Amplidata provides Optimized Object Storage systems for Big Data. It enables customers to deploy turnkey large-storage infrastructures that meet the highest reliability and availability requirements at the lowest possible cost.

Its clear the world has become awash in rich media. Every day people create and view photographic images and video from a wide variety of origins, whether self-created or shared online from friends or professional sources. Resolutions are increasing rapidly, with high-definition formats and even 3D becoming the norm. Image files have grown rapidly from hundreds of kilobytes to tens of megabytes. Video files can now be tens of megabytes, and professional HD files have grown to hundreds of Gigabytes. Specialized image data is also present in life sciences, government and scientific applications. So the world is not only awash in exabytes of media data, but the need to keep it safe, secure, uncorrupted and accessible for years is now an absolute expectation.

Image 1: Amplidata multi-petabyte storage

Aside from rich media, documents of all types are becoming larger and more numerous. Corporations generate enormous amounts of document data that has potential future value, and hence must be maintained. In a wide variety of enterprises the need to manage Petabytes of data and keep it in highly durable, yet affordable digital archives is becoming a paramount concern.

How do we enable unbreakable storage for the world's largest social networks, online applications and enterprise repositories? Many questions can be raised about what is to be done with these mountains of Big Data: can we simply manage it in databases or file systems? Can we afford to keep it on traditional enterprise storage arrays? Or should tape experience a renaissance and become the primary storage medium for long-term scalable archives?. While these systems certainly provide their own strength and weakness tradeoffs, none of them were ever designed for the scale of the data we now need to store. None provide the right combination of durability, online accessibility, scalability and affordability needed to do this right.

MEETING THE DEMANDS OF BIG DATA

In Amplidata's vision, Optimized Object Storage systems provide the optimal solution for managing the demands of Big Data:

- Systems that can scale seamlessly, without interruption, to hundreds of Petabytes and Billions of big objects
- Extremely high levels of storage durability, to not only protect this precious data against the loss, but also to assure the integrity of the data
- Performance that is matched to big data access patterns and increase to match system capacity
- A true comprehensive reduction in cost of ownership, not just entry price but affordable overall ownership costs, including administration and environmental costs
- Organic scaling over newer generations of components, with automated data migration.
- Distributed access across geographically disparate locations

AMPLIDATA
2100 Seaport Blvd, Suite 400
Redwood City, CA 94063 (USA)

INFO
sales@amplidata.com
www.amplidata.com

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AMPLISTOR

AmpliStor is an Optimized Object Storage system designed specifically for the world's largest Big Data applications. The system was purpose-built to enable the most durable, scalable and easiest to manage storage system for applications that create and manage multiple petabytes of big data. The system can also be used to efficiently store large back-up payloads, simulations & scientific big data archives from genomics, manufacturing and research. Regular files can be stored as objects along with optional user-defined metadata.

SOLUTIONS

AmpliStor provides API's that provide easy intergration with applications that supports REST or NFS, which makes the system suitable for any environment that requires high throughput and scalability.

Scalable Storage for Online Applications

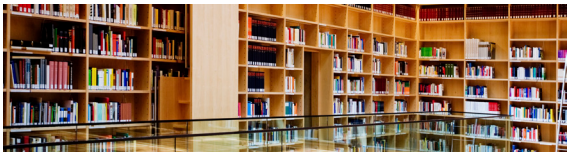
Durable, cost-efficient storage for large capacity data applications

Active Archives for Media and Entertainment

High-throughput, single-tier disk archive for large media filesDurable, cost-efficient storage for large capacity data applications

Big Unstructured Data Archives

Highly durable, scalable and cost efficient disk storage for large volumes of unstructured data



ABOUT AMPLIDATA

Amplidata responds to the market's need by solving the problems traditional technologies face and guarantees ultimate availability on all storage tiers. Leveraging their BitSpread technology, Amplidata enables customers to build highly available storage infrastructures at significantly reduced cost. The company is addressing some of the inherent weaknesses of high capacity disk systems, such as performance, bit error rates, mean time between failures and RAID rebuild times which have not improved sufficiently to keep up with the explosion of digital storage needs.

Amplidata was in founded in 2008 by Wim De Wispelaere (CEO) and Wouter Van Eetvelde (COO), two storage veterans. They have been involved in the development and launch of several innovative products and technologies.

Amplidata is active in North America, Belgium, Germany and Egypt, and has its operational headquarters at the Innovation Center in IT Valley in Lochristi, near Gent, Belgium. R&D are located in Belgium and Egypt, sales and support are represented in a number of countries in Europe and North America. More information can be found at www.amplidata.com.

Amplidata's Optimised Object Storage system comes preinstalled om AmpliStor Storage Nodes. A minimal configuration starts with 3 controller nodes and 8 AS20 storage nodes, totalling 160TB of raw capacity*. The system can be scaled seamlessly to hundreds of storage nodes**.

** 100 TB usebale storage in a 16/4 set-up*

*** Capacity and Performance can be scaled separately*

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