Organization

Stream LLC (Stream.ru), a subsidiary of Mobile TeleSystems, Russia

Challenge

A large amount of multimedia content has to be stored and processed. The storage solution had to meet the following requirements:

- Large capacity to store more than 200 TB of multimedia content
- Highly scalable
- Excellent system reliability
- Robust data protection
- Sophisticated Linux based server support

Solution

Infortrend's Fibre-host EonStor DS solution met the challenge with:

- High performance
- Large capacity expansion capabilities
- Redundant hardware design
- Excellent data protection features
- Multipathing support, thanks EonPath

Infortrend's EonStor DS storage systems drive Russian multimedia streaming platform Stream.ru

In 2011 the multimedia streaming platform Stream LLC (Stream.ru), a subsidiary of Mobile TeleSystems started its operation in Moscow. The service is streaming multimedia content to Smart TVs, smartphones and computers. The platform provides around 7000 movies and TV series from Universal Pictures, Walt Disney, Warner Bros., Sony Pictures Entertainment, Bazelevs, Central Partnership, and others. The portal is visited each month by 1.5 million visitors.

Establishing a reliable storage system for a new multimedia streaming platform

Stream LLC built its first data center 2011 in Moscow and researched about first-time storage equipment that fulfills their requirements. They requested a storage system being capable to store more than 200 TB data, provide seamless multimedia content streaming, being highly scalable and having a robust data protection.

Challenges

Stream LLC's research led to 3 well known storage system supplier, they start to compare. The challenge was to find a supplier who was able to fulfill all their requirements at once. Besides high performance, Stream LLC demanded high scalability; sophisticated Linux based server support, local technical support and inexpensive price per 1 TB. After investigating all 3 suppliers, their capabilities and solutions, Stream LLC decided to use Infortrend's EonStor DS storage subsystems.

"***We finally decided to use Infortrend's EonStor DS storage subsystems because the systems are fully compliant to our stated objectives. The systems show a great performance. They are highly scalable and ease to deploy. We have experienced local technical support here in Russia. The overall package offered by Infortrend meets our price per 1 TB demand and delivers a low TCA." (Shalyto, Inna, CEO Stream LLC., 2012).***

Infortrend addressed the following aspects for establishing a storage solution

- First-time installation of an integrated storage platform
- Meeting performance demand within a multimedia content storage and streaming environment.
- Achieving high utilization and reliability to guarantee multimedia contents' availability and error-freeness.
- Scalability, to meet the ever increasing amount of users and multimedia content.

Infortrend opted for a FC SAN configuration, based upon its EonStor DS solution

EonStor DS storage subsystems are Infortrend's SAN and DAS solutions, offering high performance, comprehensive data protection, highest data availability, easy and intuitive management and exceptional price-performance.

These storage subsystems feature high-availability hardware design with redundant, hot-swappable hardware components, such as RAID controllers, power supplies and cooling fans to eliminate single point of failure. EonStor DS storage subsystems provide local and remote replication to protect valuable data against critical threats.

The Solution and Its Benefits:

Infortrend's EonStor DS supports dynamic scaling. The storage subsystems can be expanded to more than two hundred drives to meet the proliferation of storage growth. The "scale as you grow" flexibility of the EonStor DS storage solution minimizes upfront investments and provides the best overall Total Cost of Acquisition (TCO).

EonStor DS systems offer excellent performance levels that are ideal for mission-critical applications such as HD media editing and streaming. Featuring advanced hardware platforms, EonStor DS systems provide excellent throughput of up to 2.800 MB/s Read and up to 1.200 MB/s Write.

The EonStor DS Storage subsystem chosen for Stream LLC offers 8 GB/s FC host connectivity for excellent SAN performance. Farther Infortrend's EonPath software is used to provide intelligent I/O path management and load-balancing to avoid interruption to data flow and to optimize throughput across data links.

Stream LLC's benefits at a glance:

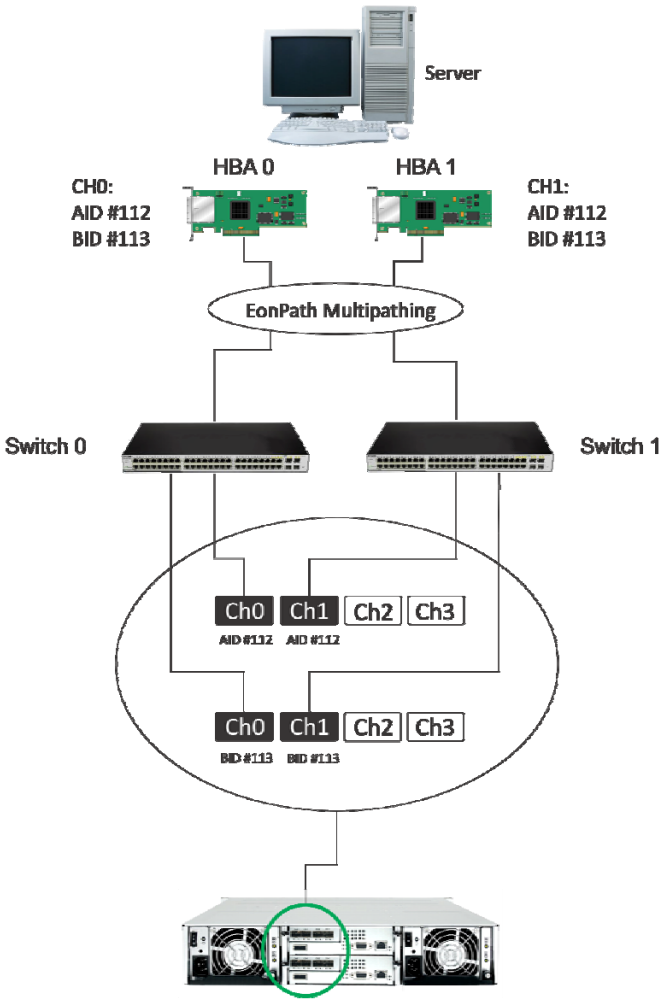
- High performance storage subsystem that meets HD media content storage and streaming.
- Robust data protection, which combines latest software and hardware technologies, grants error free data.
- Redundant, hot-swappable hardware components, such as RAID controllers, power supplies and cooling fans that eliminate the single point of failure.
- High scalability to meet future demand.
- An experienced local support that meets support inquiries in time.
- A minimized upfront investment to provide the best overall Total Cost of Acquisition (TCA).

Close cooperation between all partners reap the benefits of this project

The first-time installation and configuration took several months. All organizational and technical issues of a firs time installation have been solved in time.

"It was a challenge for us to implement EonPath (Multipath software) on our Linux systems. Thanks to great support of OOO Infostor, Infortrend's local distributor, and Infortrend's experienced engineers all tasks were finished in time and to our fullest satisfaction." (Inna Shalyto, CEO Stream LLC, Russia).

Deployment of Infortrend's EonStor DS storage subsystems provides many benefits to Stream LLC. EonStor DS systems deliver the needed performance, robust data protection and scalability to meet Stream LLC's future expansion plans. Local support from experienced engineers overcomes language barriers and fulfills support needs in time.



EonStor DS Fibre Channel RAID subsystem

About Stream LLC

In 2011 the multimedia streaming platform Stream LLC (Stream.ru), a subsidiary of Mobile TeleSystems started its operation in Moscow. The service is streaming multimedia content to Smart TVs, smart phones and computers. The platform provides around 7000 movies and TV series from Universal Pictures, Walt Disney, Warner Bros., Sony Pictures Entertainment, Bazelevs, Central Partnership, and others.

The portal is visited each month by 1.5 million visitors. The number of visitors is increasing fast due to their new content providing concept. The content the user wants to view is free of charge. Instead the user has to watch advertisement at the beginning and during a movie or TV series. This concept has great potential to attract a huge audience nationwide in the future.

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