

KEEPING THE MILITARY AND THE MEDIA CONNECTED

AT A GLANCE

Industry

Media and Entertainment

Products

Aspera Enterprise Server for
Isilon IQ

Challenges

High-speed transfer of video, audio,
and still images from source to stor-
age over satellite network

Solution

Centralized Aspera Connect
Server and browser plugin

Benefits

- Increase in speed and reliability of uploads
- Predictable delivery times from the field to the hub in Atlanta
- Integration with Isilon Scale-out NAS
- Reduced operational costs with automated transfers

The Defense Video & Imagery Distribution System (DVIDS) is a distribution service that provides public domain content—photos, videos, audio, stories—submitted by the military to news organizations and other interested parties, such as military families.

For most media organizations, DVIDS is the go-to source for all content and much of the information collected overseas, from major military actions to activities of local soldiers abroad. The content ranges from broadcast B-roll to family messages from soldiers during the holidays. They even conduct live interviews with soldiers overseas for news organizations.

CHALLENGE: ENABLING HIGH-SPEED ACCESS TO RESEARCH DATA

DVIDS collects rich media content from across the globe and sends it to a distribution hub in Atlanta, staffed by civilian and military communications professionals, offering complete digital content management, post-production, and broadcast services. Speed of transfer and distribution is of the utmost importance for DVIDS to maintain its leadership role as the go-to source of military content for news outlets.

DVIDS transferred files using satellite, FTP,

and some proprietary transfer protocols, such as NorSat's Assured File Transfer (AFT), and Northrop Grumman's Fast File Transfer (FFT). The broad range of protocols and network types and conditions were leading to inconsistent and unpredictable transfer speeds and there was no way to know when

“DVIDS illustrates the power of Aspera’s technology, allowing rich files to be sent quickly and reliably from literally anywhere on the globe with a satellite uplink or Internet connection.”

the content would be received at the distribution hub. DVIDS needed a more consistent, fast, and reliable protocol, especially for larger video files,

To store all the video, audio, and still images, DVIDS had chosen an Isilon clustered storage array to support the large data sizes and exponential data growth. Integration with the storage system was critical to ensure robust and predictable source-to-storage transfers, as was the need to scale up transfer speeds to support scale out of the storage nodes.

BENEFITS

Maximum speed: Enables large data set transfers over any network at maximum speed, source to destination disk, regardless of network conditions or distance.

Complete security: Includes built-in security using open standard cryptography for user authentication, data encryption and data integrity verification.

Robust: Automatically resumes partial transfers and retries failed transfers.

Single File System: Aspera Enterprise Server for Isilon IQ comes pre-loaded on Isilon. The server and storage tier are collapsed into a single, common storage and transfer management pool.

Scale Out Performance: The joint solution enables linear scale-out transfer performance for both single and concurrent transfers. Aspera fasp transfers are easily scaled out across nodes in the Isilon cluster to achieve maximum aggregate throughput end-to-ends.

SOLUTION:

DVIDS selected the Aspera Enterprise Server for Isilon IQ, a cluster-aware version of Aspera's high-speed file transfer technology, integrated and running directly on Isilon scale-out storage. Each military unit has a proprietary transmitter, which is synched up with Aspera to send files either by Internet or satellite. This allows the content to be collected on the spot, and immediately sent to the Atlanta center with no intermediary.

For any file over 10 MB, DVIDS always uses Aspera, instead of FTP or other proprietary transfer technology. Aspera's software helps DVIDS move files ranging from 10 MB to as high as 5 GB, at high-speed, over the satellite network. Files are generated on site by each military unit, scrubbed of sensitive information, and immediately transferred at high-speed to the hub in Atlanta for distribution. Anytime network conditions, transfer distances, file size or other factors prevent a transfer, Aspera is used as the guaranteed delivery mechanism with predictable performance and transfer times. This type of guarantee is paramount to DVIDS' overall workflow.

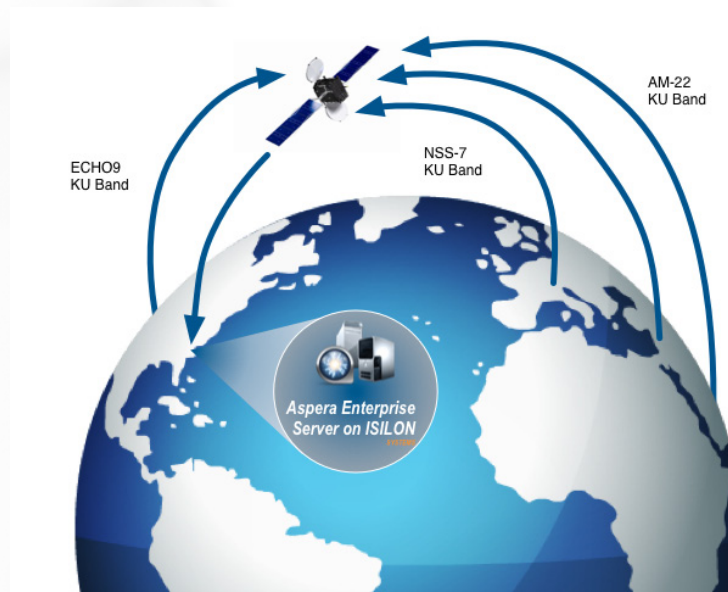
BENEFITS:

The DVIDS is able to transfer at high-speed video, audio, and still images from over 175 uplinks in 13 countries around the world to the distribution hub in Atlanta, GA. The Aspera Enterprise Server runs directly on DVIDS' Isilon storage system, providing high-speed transfer from the units in the field to storage. Controlling the transfer from source to storage is a huge benefit to DVIDS, allowing end-to-end automation and optimization of the transfer, ensuring the digital content is immediately available for broadcast and distribution.

ABOUT DVIDS

DVIDS operates a turnkey, state-of-the-art, 24/7 operation that provides a timely, accurate and reliable connection between the media around the world and the US military serving overseas.

Through a network of portable satellite transmitters located in-theater and a distribution hub in Atlanta, Georgia, DVIDS makes available real-time broadcast-quality video, still images and print products.



About Aspera

Aspera is the creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented *fasp*™ protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. More than 1,300 organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

Learn more at www.asperasoft.com