



Compact 1 RU Profile for
Video Management

HD STORE AND FORWARD SERVER AND CLIENT

Target Markets and Applications

- File-based video over IP
- IP-based newsgathering and video management
- Video acquisition
- Centralized video clip management
- Field-editing and file transfer
- Rule-based transcoding
- Mobile command centers
- Streaming to the web
- Live and on-demand webcast

HD STORE AND FORWARD SERVER

The Streambox HD Store and Forward Server provides scalable support and management for hundreds of video clip uploads from a variety of users, either via the Streambox Store and Forward Client or via HTTP uploads. The Server accepts field-generated video clip uploads in a variety of file formats and it provides automatic or on-demand transcoding of those clips depending on operator requirements.

An easy-to-use web interface enables the control room operator to monitor active connections and video uploads in real-time. Video clip thumbnails and metadata provide additional information about individual video clips. This helps the operator gain greater control and visibility into the status of video uploads. Metadata and date/time stamps also enable the operator to search video clip uploads.

The HD Store and Forward Server facilitates improved management, monitoring and prioritization of field-edited files as they are uploaded to the Server from contributors such as field reporters, digital journalists, stringers, citizen reporters, or remote bureaus. The Store and Forward Server can also be integrated with existing broadcast equipment such as third party video servers, editing stations, and storage solutions.

The Streambox Platform

SOLUTION FEATURES

- Ingest raw ACT-L3 files, field-edited QuickTime wrapped ACT-L3 files, WMV, AVI, FLV, MPEG4, and other file formats
- Track the status of video file uploads via video thumbnails or flash video
- Provide meta-data information via easy-to-use web interface
- Search video clips by date/time of upload or by metadata
- Monitor active video uploads in real-time
- Manage hundreds of simultaneous connections
- Transcode video clips automatically or on-demand
- Set up email notifications for active and failed video uploads
- Add multiple user profiles such as reporter, citizen, operator, administrator
- Upload video clips using any IP-based network
- Run script to push video clips to watch folders or the Streambox Media Station for layout

Active Uploads

File name	Size	Time Left	Speed	Client IP
AlghanDV-4_Best Intel.mov (17.1%)	4,358,544 / 25,464,419	00:19:21	141.19	68.90.235.91
Tech_of_TomorrowLow.mov (1.8%)	2,377,376 / 124,763,820	02:42:09	106.45	68.90.235.91
boat_race_samFinals.mov (1.1%)	1,209,348 / 107,963,811	02:45:20	84.57	68.90.235.91

File name	Size	Time Left	Speed	Client IP	Slug
Rsh_migration02.mov (3)	5,984,240 / 197,529,110	00:04:49	5,176.64	68.90.235.91	

Metadata Information and Video Formats

File Information

NYFIRE01.MOV (24.3 Mb)

Slug: fire
Location: new york
Reporter: Nick
Network: wimax

Formats

FLV	ready	download
AVI	does not exist	create
WMV	does not exist	create
VIA	does not exist	create
MPEG	does not exist	create

Uploaded at: 2008.08.20 11:19:34
Versions: 5
[Delete this file](#)

Video Thumbnail View

Grid of video thumbnails with titles and metadata:

- Boat race sample: Tokyo, Naruhito, Satellite
- Ambulance in LA: LA, Phyllis, BGM
- New York Fire: NY, Nick, Wimax
- Insurgents: Iraq, Steve
- Military Helicopter: Marmes, Peter, VSAT
- Orlando Trial Coverage: Orlando, Linda, WFF
- Mountains: Peru, Sanchez, Broadband

HD STORE AND FORWARD SERVER



HD STORE AND FORWARD SERVER AND CLIENT

HARDWARE TECHNICAL SPECIFICATIONS

Operating System:	Windows® Server 2003 R2
Hard Drive:	Dual Raid-1 (Mirror)
Network:	Dual Ethernet 10/100/1000 Mbps IEEE 802.3, 802.3u, 802.3ab RJ-45 dual port
Network Protocol:	TCP/IP port 80 (reporter, citizen reporter) UDP port 2051 (reporter)
Setup & Control:	Web interface, VGA output, USB ports CD/DVD drive. Up to 2 internal SATA drive
Power Requirement:	Dual power supply 100-240 V AC 50/60Hz
Power Consumption:	400W maximum
Dimensions:	1 RU 1.67"H x 16.78"W x 27.29"D 4.2cm H x 42.6cm W x 69.3cm D
Weight:	30 lbs, 14kg

HD STORE AND FORWARD CLIENT SOFTWARE

The Streambox HD Store and Forward Client software enables digital news contributors to upload multi-format video clips to the Streambox Store and Forward Server via an easy-to-use web interface.

The Client is typically launched from a Streambox software or laptop encoder. Prior to uploading the video, the reporter is able to edit the file using any QuickTime compatible NLE application. The reporter then establishes a network connection to the Store and Forward Server from the Encoder. Multi-format video files start to upload as soon as the user has been authenticated by the Store and Forward Server. If the network connection is lost during the video file upload process, The Store and Forward Client automatically resumes the upload as soon as the network connection is reestablished. No action is required on the part of the user.

For the Store and Forward Server the administrator provides upload privileges to digital news contributors based on each contributor's account type.

Active Uploads

Streambox® Streambox® Store and Forward Client			
Upload File	Active Uploads	Upload History	Settings
File name	Size		
AfghanDV-4. Best-Intel.mov	25		
Tech_of_Tomorrow1.mov	124		
boat_race_semifinals.mov	107		

Cancel All Pause All Resume All

Metadata Information Entry

Metadata

SLUG:

Reporter:

Location:

Network:

Select File to Upload:

Size: 35 M File Format: mov

Connection Profile: DSL 256Kbps

Estimated Time to Upload: 00:00:19

Estimated Time of Completion: 20, Aug 2008 12:03:58

SOLUTION FEATURES

- Software connects and authenticates with the Store & Forward Server via a web-based interface
- The reporter manages video clip uploads, in a variety of file formats, directly from his/her laptop
- Integrated presets for connection speeds
- UDP and HTTP upload options
- Monitor vital statistics for active connections to the Store and Forward Server
- Add video clips to the upload queue and enter metadata for each clip
- Test connection speed/conditions for optimal uploading options
- Video clip starts to upload when connection is established
- Resume video clip upload if network connection is lost
- HTTP upload option is also available
- Upload video clips using any IP-based network connection



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