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INTRODUCTION

The combination of XFly and XFly Streamer allows broadcasters to benefit from a simple tool by quickly transferring all camera angles to a post-production facility.

The marriage of these two systems offers a zero configuration tool with the required software and hardware to stream effortlessly all camera angles on a portable storage device that can be plugged into a post-production facility and easily accessed on the spot by editors.

SOLUTION DESCRIPTION

- “All-in-one” portable ingest and storage unit
- Dedicated storage for multi-camera ingest
- Multi server content access over network
- NLE “In place editing” capabilities
XFLY STREAMER - VALUE PROPOSITION

The idea is to make lighter and quicker the delivery of a complete production to a post-production facility. The solution provides all the necessary hardware and software to stream in a very easily way all the camera angles in one single box which can be transported for post-production editing. Just plug and play the box in a standard Ethernet network and editors can begin their job.

> Hardware
  o “All-in-one” multi-camera ingest and storage in a single portable unit
  o Easy to transport
  o Plug and play with auto-discovery
  o The box is reliable as any EVS hardware.
  o Cost efficient

> Software
  o The setup is as simple as possible.
  o The software is very easy to operate.
  o It ensures direct compatibility between ingest and post-production
  o It supports native file format and wrapper (DNxHD®, ProRes, DVCPROHD)

OUTSIDE BROADCAST LIVE MULTI-CAMERA RECORDING FOR:

> Sports events
> Entertainment
> TV series
> Reality TV
> Concerts
> Ceremonies, awards
> Political events
HARDWARE DESCRIPTION

XFly is a brand new compact and portable storage platform intended for extended live production operations. The storage case encloses eight removable standard SATA hard disk drives (2.5 inches) offering up to 8TB storage with a maximum capacity of 140 hours of HD at 100Mbps.

This new portable system is designed to offer EVS XT/XS server series operators an easy way to back up clips and feeds. When live shooting is completed, the operator can simply carry the entire production footage; including program feed, multi-camera angles, best shots and highlights in a single storage case. Once in studio, XFly is simply plugged into Avid or FCP allowing editors to immediately begin their creative tasks.

OS AND SOFTWARE

XFly operates under Windows 7 Pro Embedded X64. XTAccess is automatically installed, along with the following utilities: Adobe Reader, XML Notepad 2007 and Kasperski Antivirus.

FRONT PANEL

The following elements are on the front panel of XFly: 1 USB port, 1 power switch, 1 power LED, 1 HDD LED.
## REAR PANEL

<table>
<thead>
<tr>
<th>Number</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 x eSATA port</td>
</tr>
<tr>
<td>2</td>
<td>1X DVI-D port</td>
</tr>
<tr>
<td>3</td>
<td>2 x Ethernet Gigabit ports compatible Jumbo Frame 9K</td>
</tr>
<tr>
<td>4</td>
<td>Mouse connector</td>
</tr>
<tr>
<td>5</td>
<td>Keyboard connector</td>
</tr>
<tr>
<td>6</td>
<td>4 x USB ports</td>
</tr>
<tr>
<td>7</td>
<td>1 x VGA connector</td>
</tr>
<tr>
<td>8</td>
<td>3x RS232 port DB9-M and 1X RS422 port DB9-F. The number 2 port is configured as RS422 for EVS video server control.</td>
</tr>
<tr>
<td>9</td>
<td>Audio connectors</td>
</tr>
<tr>
<td>10</td>
<td>S/PDIF connector</td>
</tr>
<tr>
<td>11</td>
<td>Power supply connector</td>
</tr>
</tbody>
</table>
PC CHARACTERISTICS

> Motherboard Core i5 660 3.3Ghz
> DRAM 4GB (1GB shared with graphic cart)
> HDD for OS and software is a 30GB SSD (flash disk, this induces no partition for restoration > restored files are saved to HDD RAID = +/-20GB )
> Graphic card onboard with dual screen capabilities and 1 DVI-D port (D > digital only)
> Audio card onboard

STORAGE CHARACTERISTICS

Storage NAS

> 8x HDD SATA 1TB
> Disk pack
> RAID 5 (total capacity is less then 7TB)
> LSI 9260 RAID controller

SATA HDD

SATA available capacity = 500GB and 1TB (EVS standard configuration)
PERFORMANCE

The following diagrams display XFly’s performance in processing multiple 90-minute backups from XT native codec to standard file wrappers such as EVSMXF, QT, OP1a SMPTE and AVID OPATOM.

Important note:

The XFly system has not been designed to process multiple transcoding jobs simultaneously. In order to sustain multiple real-time transfers as shown in these performance diagrams, we recommend launching transcoding jobs separately from real-time constraints and not to exceed four jobs simultaneously.
Only one GBE Ethernet port was configured during these performances tests. In order to increase the number of simultaneous jobs, the network configuration can be modified by defining two different VLANs or by configuring a Teaming LACP.
SOFTWARE DESCRIPTION

XFLY.STREAMER

XFly.Streamer is an interface software dedicated to the backup of streams from one or several EVS video servers (XT[2], XT[2]+, XT3, XS, XTnano). XFly.Streamer manages the backup and transfer of all streams selected by the operator.

XFly.Streamer acts as a user interface for the background running the XTAccess file transfer application. XFly.Streamer sends its commands to XTAccess using XML jobs files.
KEY FEATURES OF VERSION 1.00:

> Detects all servers present on the network via LINX protocol
> Filters servers by type i.e. XT[2], XT[2]+, XS, XTnano, XT3
> Retrieves servers according to name and serial number
> Selects channels according to label/cam label
> Displays confidence view (thumbnails) of channels
> Selects output format for the resulting file
> Defines automatic format string for filename for resulting file
> Defines path/folder to save resulting file
> Starts/stops recording of all channels with a single command
> Records simultaneously up to 12 channels
> Sets a maximum recording duration of 5 hours
> Generates standard EVS.XML, FCP XML or AAF metadata file
> Protects software by XSecure
CODEC/WRAPPER SUPPORT:

XFly.Streamer is restricted to file transfers by rewrapping when required, but cannot perform any format transcoding. File formats with XT native codecs are:

- **EVS MXF** with SD codecs: MJPEG, IMX30-40-50, DVCPRO50; and with HD codecs: MJPEG, VC-3 100, Avid DNxHD 120-145-185-220, DVCPRO HD, Apple ProRes 422, Apple ProRes 422 (HQ) and Apple ProRes 422 (LT), AVC-Intra 100.

- **MXF OP1A (XDCAM)** with SD codecs IMX30-40-50

- **Quick Time Movie** with SD codecs: MJPEG, IMX30-40-50, DVCPRO50; and with HD codecs: MJPEG std, VC-3 100, Avid DNxHD 120-145-185-220, DVCPRO HD, Apple ProRes 422, Apple ProRes 422 (HQ) and Apple ProRes 422 (LT), AVC-Intra 100.

- **Quick Time Reference** with SD codecs: IMX30-40-50, DVCPRO50; and with HD codecs: VC-3 100, Avid DNxHD 120-145-185-220, DVCPRO HD, Apple ProRes 422, Apple ProRes 422 (HQ) and Apple ProRes 422 (LT), AVC-Intra 100.

- **MXF OPAtom (Avid)** with SD codecs: IMX30-40-50 and DVCPRO; and with HD codecs: VC-3 100, Avid DNxHD 120-145-185-220, DVCPRO HD, AVC-Intra 100.

- **MXF OP1a (Std SMPTE)** with SD codecs IMX30-40-50 and DVCPRO; and with HD codec: DVCPRO HD, VC-3 100, Avid DNxHD 120-145-185-220, AVC-Intra 100.

INSTALLATION AND SETUP:

The XFly.Streamer setup launches:

1. XFly.Streamer and components installation
2. .NET framework 4.0 setup
3. XFly Register setup (detection of XFly box via Bonjour Protocol) XTAccess installation, even if already installed

The installer automatically sets up all software and components; therefore, no additional setup is required. The local XTAccess software and its XFLY_StreamXML unit are automatically launched and initiated at startup. The XFly.Streamer is then ready to operate.

**Note:** XFly.Streamer is dedicated for installation on XFLY hardware, but this software can also be installed on other compatible PC systems. XFly.Streamer is validated with WIN7 64-bit/32-bit.

QUICKSTART

To start recording, proceed as follows:

1. The local XTAccess and its related XML unit are already launched and minimized in the task bar.
2. Click the XFly.Streamer shortcut to launch the software. The screen will always appear as follows:
3. Select the XFly hardware and processing device, i.e. XTAccess, from the two dropdown lists in the upper left corner. If present, the local system and software always will appear at the top of the list.

4. Set a server type to display the servers list:
5. Into the server list, click the arrow to display the list of available channels:

The selected channel is now displayed in the channel area with thumbnails generating a preview of the channel:

6. Repeat step 5 to select all desired channels.

7. If necessary, check and modify the wrapper selected, the path to save the file, the format string for automatic file naming and/or the maximum duration.

8. Click the REC command to start recording:

The REC command lights red and a red frame is displayed around each channel. All selections and settings are disabled during the recording.

9. Click the STOP command to stop recording.
SOFTWARE RESTRICTIONS:

> XFly.streamer depends on the XTAccess engine and inherits all limitations of XTAccess software.
> Installing the software requires ‘Administrator’ rights and all new folders created need to be shared with full access rights.
> All backup servers need to be genlocked and connected to the same LTC reference.
> Maximum duration for recording is limited to 300 minutes.
> Maximum number of simultaneous channels for recording is limited to 12.
> No transcoding option available. Only rewrapping facilities.
> Only Local XTAccess (and storage) are configured during installation. If a remote XTAccess is necessary, please refer to the installation section to manually set the REG keys and shared folders dedicated to XFly.Streamer operations.
> Capacity information is only available if the SNMP agent is configured in the remote storage.
> FCP XML Metadata is only available for QT Mov and QT Ref.
> CamLabel information is not available.
> Channels will disappear from channel pane following a long operation period (more than 24 hours).
CUSTOMER SUPPORT & TRAINING

Our clients range from TV stations to video equipment rental companies and production houses worldwide. EVS’ key priority is to make sure that its clients keep performing at the highest possible level. We listen to our customers, identify operating workflows, anticipate needs, and suggest effective and reliable solutions, so that they in turn can offer top-quality productions to millions of TV viewers across the globe.

CUSTOMER SUPPORT

EVS is dedicated to making sure its products are functioning in a way that meets your needs and expectations. We offer technical support 24/7 from each of our regional offices, so you can rest assured that someone will always be available to answer any question that may arise.

All members of EVS’ technical support team are qualified technicians with a solid background in broadcasting. They understand your requirements and can provide you with the best solution available.

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