

CSI

The leading magazine
for content delivery

TV wants in on the eSports action



Contents



10 COVER STORY: eSports

eSports is big business, which broadcasters want to tap into. But how can pay-TV differentiate itself and add value?

14 Analyst column: eSports

Futuresource Consulting asks if eSports and TV could be a natural fit

18 New security paradigms

From cyber security and IoT to new European data regulations, we explore changing security habits the broadcast industry needs to deal with

24 Latency

Streaming latency is becoming a critical component of live OTT, so how can it be as low as possible?

32 Android TV

With ever more payTV providers jumping on the Android TV bandwagon, we assess requirements and implications for operators

38 Artificial Intelligence

Described by Gartner as one of three key megatrends for the digital economy over the next 10 years, what are its uses in video?

42 Watermarking

The rise of premium live sports streaming on top of existing MovieLabs UHD requirements is finally giving the technology a much needed commercial push

44 Q&A with Michael Crimp

The IBC CEO gives his thoughts on this year's show, as well as what lies in store for the future

46 Technology corner: HFR

DVB's David Wood shares his expert view into high frame rates and their likely evolution

50 IBC preview

An overview of some of the highlights visitors can expect this year



Editor

Goran Nastic

Commercial

John Woods, Camilla Capece

Design and production

Matt Mills (Manager)

Jessica Harrington

Matleena Lilja-Pelling

Regular contributors

Adrian Pennington, Philip Hunter, David Adams, Stephen Cousins, Anna Tobin

Circulation

Joel Whitefoot

Accounts

Marilou Tait, Lynta Kamaray

Editorial

tel +44(0)20 7562 2401

goran.nastic@csimagazine.com

Advertising

tel +44(0)20 7562 2421

john.woods@csimagazine.com

tel +44(0)20 7562 2438

camilla.capece@csimagazine.com

Subscriptions

tel +44 (0) 20 1635 588 861

perspectivesubs@dynamail.co.uk

Circulation manager: joel.whitefoot@perspectivepublishing.com

Subscription rates

Per year: Europe £88; UK £68;

Rest of World £98. Cheques payable

to Perspective Publishing

Limited and addressed to the

Circulation Department

Printed by Buxton Press Managing Director

John Woods

Publishing Director

Mark Evans

ISSN 1467-5935

Editor's report:



Artificial Intelligence (AI) is a fascinating, if complicated area. Its many manifestations result in a perplexing set of intricacies to the casual eye. As IT, cloud, telecoms and other areas influence the evolution of broadcast more and more, so AI is beginning to permeate aspects of our industry. Developments are in their infancy, but we can already identify a number of promising applications and services

where the technology will be useful (see feature on p38). Will it also open a Pandora's box? This is one of the main topics I will be talking to people at IBC about, in order to gauge their feelings on AI going forward. The responses should prove interesting and play a big part in our show review, with more editorial coverage to follow in 2018 as we explore new horizons.

Goran Nastic, editor




Perspective Publishing
3 London Wall Buildings
London
EC2M 5PD
www.perspectivepublishing.com



Register Now!

Conference 14-18 September 2017

Exhibition 15-19 September 2017

A wide-angle photograph of a busy exhibition floor at IBC 2017. In the foreground, a large purple booth displays a soccer game on a screen labeled '4K Playout'. People are walking through the aisles, some looking at displays. In the background, other booths are visible, including one for 'INTELSAT' and another for 'Imagine' with a sign that says 'The future of TV. Today. Only @ the IBC Autumn, Stand #A.01'. A staircase is visible on the right side of the image.

IBC 2017

The World's Leading Media, Entertainment & Technology Show

Join over 1,700 exhibitors showcasing the latest technological innovations, 400+ speakers delivering the latest industry insights and 55,000+ attendees providing unlimited networking opportunities at IBC's 50th annual conference and exhibition.

Register at show.ibc.org

#IBCSHOW

Storage full? Searching for files? Archive to the rescue!

By Marc Batschkus

Bigger files in production means more demand for storage capacity. High performance production storage always fills up faster than anticipated. Constantly expanding it is no option for most, because it is simply too expensive. Additionally, older files are accessed only rarely, though they take up considerable space. Is there a solution to this situation? Yes! Archiving.

Simplify finding files by Archiving

The Archive is the repository for completed productions. They are archived and deleted from production storage to free up space. The Archive becomes the single point of reference for all files and edits that were ever completed. This saves countless hours of searching through external disks, lists of files, notes or other material. Now finding and retrieving a clip

only takes minutes. The benefit of having metadata that can be customized, browsed and searched, makes the Archive an efficient tool for referencing, re-purposing or any form of monetisation. Now files can be re-used anytime.

Archiving pays off

By saving expansion of production storage, Archiving pays off. Using LTO tape as storage medium improves security and is the most economic way to store large amounts of data. Previously used by large corporations and banks, LTO is now available to all production environments. With a price point of about 10US\$ per TB with LTO-6 it is unmatched.

Maximum security for production media

Tape is less vulnerable to malware, viruses and mishaps. Contrary to disk, infections can not spread to other tapes. Only the tape that is mounted in the drive can be accessed by the server. With a guaranteed shelf life of 30 (!) years, tape is ideal for long-term media storage. P5 Archive offers tape cloning to create two identical tape sets, one for off-site storage for maximum security. With P5 Archive,



disk and Cloud can also be used to build this level of security and save to off-premise storage.

Archiving the easy way - P5 Archive

A web browser is enough to access and use Archiware's P5 Archive. Proxy clips and media previews make browsing and finding a file easy. Now anyone in the company can access the Archive. Archiving on the Mac can be simplified even further. One right-click is all it takes to archive and restore. The Add-on P5 Archive App offers the necessary Finder integration as well as FCP X integration.

The key to the Archive - Metadata

With P5 Archive, Metadata fields can be customised to match the individual production criteria. This way, files can be found using technical and descriptive criteria. P5 Archive offers universal compatibility and flexibility. Running on Mac, Windows, Linux and FreeBSD makes it future-proof. P5 Archive offers maximum choice of storage categories supporting Disk/SSD, Tape and Cloud storage.

One solution to protect the workflow

P5 Archive is part of Archiware's data management suite P5 that covers the A-B-C of data management: Archive, Backup and Cloning. All products can be combined to protect the complete workflow in all stages.

Take advantage of the free 30-day trial license and download Archiware P5 today. **CSI**

<http://www.archiware.com/download>

