



CSI Awards Ceremony
Friday 11 September
IBC, RAI, Amsterdam

CSI Awards Shortlist 2015

www.csimagazine.com/awards



Complete Portfolio for Content Security

Conax, part of the Kudelski Group, is a leading global Content Security Specialist for digital entertainment delivering services for 400 operators, representing 140 million pay-TV consumers in 85 countries globally. At IBC 2015, we are showcasing our content protection platform, Conax Contego™, as well as the latest versions of our OTT solutions, Conax Go Live™ and Conax Xtend Multiscreen™.

This year, we are extremely proud to have been shortlisted for two Industry Awards at IBC! The prestigious CSI Awards, and the IABM Design & Innovation Award. In both awards we are nominated for Conax Go Live™ - an entry level, turnkey solution for streaming live-TV.

Providing future-ready, secure technology is at the core of everything we do. Based on a continual commitment, the Conax team brings a wealth of expertise enabling us to deliver a strong combination of insight and innovation to our customers.

Visit Conax @ IBC, Stand # 1.C81 / conax.com



Introduction



When I recently spoke to Bruce Tuchman, the president of AMC Global and

Sundance Channel Global, something struck a note. He talked about how technology innovations of the future will encourage AMC and other content owners to continue to “up our game” and meet new challenges. I am sure that this resonates with most of you who are reading this, no matter which part of the ecosystem you inhabit.

While live and linear remain king for now, viewing habits are increasingly dictated by TV Everywhere/multi-screen and VoD types of experiences and the world is blurring. The industry is developing and deploying solutions to meet these needs. And this is happening thick and fast. I have written in these

pages before that TV is undergoing an unprecedented pace of change, with arguably more innovation taking place every year than television underwent in its first 50 years. This level of innovation will only accelerate and it's great news for awards such as ours. The CSI Awards would be nothing without the entries that underpin it and luckily they are evolving by the year as the impact IP has on all areas of entertainment becomes more profound. While most of the new categories we have introduced over the last few years have to some extent been influenced by broadband there are also other factors at work.

For instance ultra HD, which is still a work in progress, affects traditional screens and methods of transmission a much as OTT and it will take years for the ecosystem to fully mature. The same goes for the Internet of Things, an all-encompassing phrase that seems will have a transformative effect across a

whole range of verticals, though the types of products and services entered into these awards will likely be affected by the more limited editorial coverage and focus CSI has in relation to IoT. Nevertheless, as can already be seen in the inaugural year, this category will throw up some of the most interesting entries going forward.

Of course, we mustn't forget the human factor in all this. Behind every user experience or technology platform is an individual and one of the best things about our industry is that it remains a people focused one with friendly faces. So do come to Room E102 at the RAI on Friday and enjoy the drink and chat as much as the ceremony!

Finally, congratulations to everyone who has made the shortlist, a big thank you to everyone who entered and I hope to see all of you back in 2016.

Goran Nastic, Editor, CSI

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Dr Roger Blakeway, President, SCTE (Society for Broadband Professionals)

Dr Blakeway FIET, FSCTE, C.Eng holds a Doctorate in Electron Physics from the University of Birmingham, UK. Rogers's career in cable started in the early 1980s; he had previously been working on low-light TV and Thermal Imaging with the MoD. His first job was as Technical Director with Racal-Oak, a partnership between Racal in the UK and Oak Industries, designed to bring broadband cable technology to the UK. In 1985, Roger joined Westminster Cable in London as COO and in 1990 joined Videotron as VP of Corporate Engineering. He decided to devote his whole time to running the SCTE. Roger has been the elected President of the SCTE (the Society for Broadband Professionals) since 1991 and also acts as its Chief Executive. Roger is also involved in the European and Worldwide Standards scene as Chairman of the UK National Cable Standards Committee. Roger is a member of the illustrious US Cable TV Pioneers club.



William Cooper, Founder and Chief Executive, Interactive Media and Convergent Communications Consultancy, informitv

Founder of the independent consultancy informitv, William provides thought leadership and advises clients around the world on strategy and implementation around broadband and broadcast convergence. A regular contributor to international conferences, with papers published at both IBC and NAB, William is a recognised commentator on interactive media and publishes the informitv Connected Vision newsletter, available as a free subscription at informitv.com.



Jeff Heynen, Principal Analyst, Broadband Access and Pay TV, Infonetics Research

Jeff is a widely recognised author, speaker, and consultant with expertise in telco, cable, and satellite pay TV networks and services, multiscreen video, and broadband access technologies and services. He is frequently quoted in publications including the New York Times and The Wall Street Journal. He publishes market forecasts and service provider surveys year-round and speaks at events worldwide, and Infonetics' online webinars. Jeff helps clients identify new market opportunities, provides due diligence, and advises on positioning, product development, business plans, and M&A activity.



Philip Hunter, Independent Writing and Editing Professional

Philip is a technology journalist covering TV broadcasting and content technologies. Coming from an IT background as a former programmer and software test analyst he is well placed to understand the current migration of content to a digital platform served on demand. Philip writes for CSI on a variety of topics.



John Ive BA, C.Eng MIET, Director of Business Development & Technology, IABM

John Ive has a career in the television industry spanning 35 years including periods with the BBC, the former IBA (Independent Broadcasting Authority), Sony Professional. He currently holds the position of Director of Business Development and Technology at the IABM. In recent years he has consulted and given presentations on industry trends, operations, new technology including IT and file-based workflows, content distribution, HD and UHD. He has been a leading player in the introduction of file-based workflows through work on the MXF file format. John is a fellow of the SMPTE, a fellow and silver medal holder of the Royal Television Society, a chartered engineer and member of the IET. He is also a member of the IBC Council and Director of the Professional MPEG Forum.

Jean-Marc Racine, Managing Director, Farncombe

Jean-Marc started his career in the UK at ICL in 1993. In 1995 he joined PHILIPS' French research laboratory where he was involved in designing the first generation of real-time MPEG2 encoders. Jean-Marc joined CANAL+ in 1997 as sales manager then founded and ran its US subsidiary. Jean-Marc is a graduate of the Institute of Superior Electrical Engineering (ISEP) in Paris with a major in Electrical Engineering and Networking.



Terry Marsh, Strategy in Digital Media

Terry is a specialist in change management, digital convergence and diversity. She has advised on digital projects with a range of clients including BBC, Granada, Pearson, Prudential, and News International, also delivering two multi-million pound digital projects for the DfES. After lecturing in statistics at Surrey University, Terry joined the BBC as a data analyst, moving on to produce award-winning science and technology programmes for the BBC's Computer Literacy Project. She was Head of Schools' Programming for five years before joining the Universal/Paramount owned SciFi Channel as their VP of Programming for Europe, responsible for original programming, acquisitions, presentation and transmission. Terry is a Fellow of the Royal Television Society and a member of the IET.



David Mercer, VP, Principal Analyst, Strategy Analytics

David is one of the industry's most experienced analysts focusing on digital content and consumer devices, and heads Strategy Analytics' global digital consumer research team. During more than 20 years of analysis and consulting within the consumer technology and media industries he has worked with many leading global players across the value chain. He is widely recognised as delivering thought leadership on emerging television, video and games businesses and the digital home. He speaks regularly at international conferences and panels, engages with C-level executives, and is frequently quoted by the specialist and general press and media. David joined Strategy Analytics in January 1997.



Peter White, CEO, Rethink Technology Research

Peter has been involved in technology for 33 years, and is now the Lead Analyst at Faultline, a digital media research service offered by Rethink Technology Research. Peter has built an understanding of wired and wireless Triple Play and Quad Play models including multiscreen video delivery, taking in all aspects of delivering video files including IPTV. Peter is most fascinated with the impact IP is having on all of the entertainment fields. Peter is currently advising major players and start up ventures in this field.



Host: Nadine Dereza

Nadine is a specialist business presenter, with a background as a reporter for the BBC and CNN. Off-camera, Nadine is a Non Executive Director for WorldSkills London 2011, bringing together young people from across the globe to compete in vocational skills. Nadine regularly presents items on all the major business stories and is conversant with many sectors. She is an accomplished chair, facilitator, interviewer and presenter.



Best digital video processing technology

THE SHORTLIST



ARRIS

ARRIS - ME-7000 Converged Video Compression Platform

The ME-7000 converged compression and multiplexing platform provides multi-codec support with SD/HD/UHD encoding and transcoding plus multi-screen delivery and stat-muxing for IPTV, cable, and satellite applications. It combines the latest ASIC-based compression technologies with a modern distributed software architecture, to provide a future-proof, modular platform.



Cisco Videoscape V2P

It enables operators to rapidly create and orchestrate video

workflows across video headend and data centre environments. It allows more flexible management and scale for new services like cloud DVR. V2P uses Openstack and NFV to dynamically provision virtualised video functions, such as transcoding and recording applications



Elemental Technologies Unified Linear TV Delivery

A software-defined video solution encompassing updated versions of existing Elemental products, plus a new product: Elemental Statmux. Launched at NAB 2015, Unified Linear TV Delivery allows operators to implement a unified headend in support of traditional broadcast and multiscreen content delivery within a single architecture.



Envivio Muse Live 4.0

With its latest enhancements, including UP! compression mode, Muse Live improves video quality, saves bandwidth and future-proofs operations. Muse Live is ideal for any real-time app, and features IP stat-muxing. Muse also supports advanced services such as ad insertion and content protection for personal devices.



Harmonic

Electra X advanced media processors

The new Electra X advanced media processors are the first encoder family to support graphics, branding, and playout functionalities, as well as quality and full-frame UHD live encoding for broadcast and multiscreen services. The Electra X family includes the 1-RU Electra X2 for all SD and HD media processing applications, and the 2-RU Electra X3 for UHD encoding.



V-Nova PERSEUS

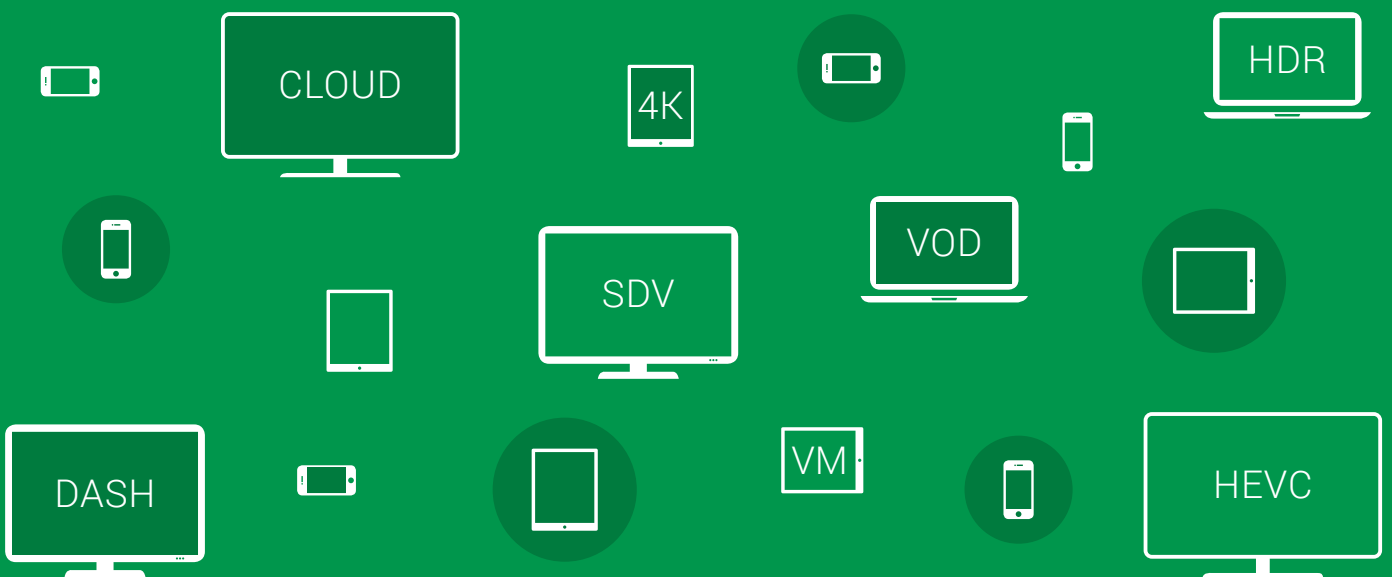
An advanced video and image processing technology with

completely new techniques based on the principles underlying human vision. It was developed over five years to address the limitations of existing compression such as JPEG2000 or H.265/HEVC. Among others, it has achieved SD quality video at sub-audio bitrates. PERSEUS has an extremely light footprint and is available on standard COTS hardware, embedded software, silicon IP, and codec plug-ins on existing platforms. It is also compatible with existing MPEG ecosystems.



Harmonic Electra X2

Perfecting the Media Experience



Software-defined video processing and delivery solutions from Elemental provide flexibility, scalability and performance via turnkey, cloud-based and virtualized deployment models. Pay TV operators, content programmers, broadcasters and enterprise customers around the world rely on Elemental to bring live and on-demand video to any screen, anytime – all at once.

Best cable or fibre contribution/distribution/transmission solution

THE SHORTLIST



ARRIS

AgileMax RFoG Optical Distribution

AgileMax Hybrid Passive Optical Network (HPON) solution is a new breakthrough in RFoG FTTH network technology. Replacing the optical splitters commonly found in traditional RFoG architectures, next-gen AgileMax optical distribution technology allows operators to completely eliminate Optical Beat Interference (OBI) from their networks even in networks with multiple, active upstream lasers, thus significantly expanding their upstream and downstream capacity and data speed without changing back office infrastructure.



Cisco cBR-8 Converged Broadband Router

cBR-8 Evolved CCAP is next-gen CCAP with hub-in-box design to eliminate all related headed equipment and enables cable operators to compete in multi-Gigabit Broadband services with the industry lowest Total cost of Ownership. It is the only CCAP designed from ground-up for DOCSIS 3.1 with full-spectrum support and can converge all services including DOCSIS



ARRIS AgileMax

3.0 and 3.1 data services, video and voice. The cBR-8 also supports Distributed CCAP architecture with Remote PHY for both residential and business services in one network.



Net Insight The Nimbra OT 100 for 4K video

The Nimbra OT 100 is a one-box solution that integrates into

multiple network configurations, offering cost-efficient high capacity media transport for 4k UHD video. The solution enables high capacity networking without needing a complex DWDM system. This eliminates the need for cumbersome and expensive forklift upgrades to networks, which are required to achieve the transport capacities necessary for today's higher quality video formats, such as 4k and 8k. Nimbra incorporates proprietary technology to increase streaming capacity from 10G to 40G or 100G.



Thinklogical

TLX Series 10G KVM and Video Extension and Matrix Switching System

The first system delivering extension and switching of full resolution, full colour depth uncompressed 4k video (4096 x 2160 resolution, 4-4-4 colour depth) at 60Hz frame rate using only two cables. The new TLX Series gives customers 10Gbps performance and a flexible and efficient uncompressed signal architecture supporting both fibre-optic and CATx connectivity. Based on an innovative new, single laser, single-data-stream 10Gbps architecture that supports delivery of uncompressed video, audio and peripheral data, TLX offers the lowest signal latency in the industry (microseconds, vs milliseconds for compressed solutions), and no visual artifacts, jitter or lost frames for the highest video signal quality.

Best satellite contribution/distribution/ transmission solution

THE SHORTLIST

SIS Live trucks



Ericsson DVB-S2X functionality

Ericsson has added DVB-S2X capability

to its AVP 3000 and RX8200 Advanced Modular Receiver solutions, allowing its customers to upgrade existing systems to support DVB-S2X, meaning customers can benefit from up to 20% performance improvement compared to DVB-S2. With this upgrade, Ericsson brings satellite bandwidth efficiency to news organisations, content owners, broadcasters and service providers that need to be able to capture and transmit live content at a high quality or with reduced OPEX.



generation satellite standards, the Ellipse 3202 optimises the production and delivery of high-value video services for live broadcast and DSNG applications.

the total satellite bandwidth required for distribution. The LASER MPS receiver is the only device which can provide cost-effective in a single unit on DTT SFN networks.



Harmonic

Ellipse 3202 contribution encoder

Ellipse 3202 contribution encoder is the first DSNG encoder with an integrated modulator that supports the new DVB Carrier ID (DVB-CID) standard for reducing interference between satellite signals and the new DVB-S2X specification for improving performance of DVB-S2 satellite digital broadcasting. Through a variety of advanced capabilities, including 4:2:2 10-bit encoding of 1080p60 content, dual power supplies, and compliance with next-



International Datacasting Corporation LASER

LASER Ad & Content Insertion Solution was used by a public broadcaster of a Latin American country that required ad and content regionalisation to accomplish its primary objectives and to comply with new legislation, while decreasing the amount of satellite bandwidth utilised for distribution. This project provides regionalisation of content and advertising on a per receiver basis, while reducing



SIS Live DVB/IP share system

A system to facilitate the use of both DVB and IP

traffic to share the same satellite capacity. It allows user to create an IP network using this 'spare' capacity giving much better utilisation of expensive satellite capacity and allowing broadcasters to improve workflows. DVB/IP Share is an enhancement to the proven SIS LIVE uBook satellite booking system.



Best customer premise technology

THE SHORTLIST



AirTies Wireless Networks

Air 4920

Wi-Fi has become the main broadband bottleneck and pain point for many users around the world. Even the latest Wi-Fi 11ac technology and devices with huge antennas cannot solve performance and coverage issues, but AirTies has solved these problems with distributed small mesh Access Points (APs) that provide whole home coverage for delivery of premium video to any device. Air4920 is a Smart AP product enabling full Wireless Coverage throughout the home using AirTies mesh technology.



ARRIS

VIP4000 and VIP5000

The future of high-performance set-top design. Each device features HEVC and 802.11ac Wi-Fi, allowing providers to deploy the latest entertainment experiences, like Ultra HD, quickly and efficiently. The devices are based on ARRIS's open IPTV platform KreaTV and are designed to support a wide variety of software applications. These

are the first ARRIS set-tops to feature a new, elevated set-top design, and come in a range of colours.



EchoStar Corporation

4K Joey

The 4k Joey is a next-generation receiver that will deliver a crystal-clear picture in 4k for compatible televisions. As the first of its kind to incorporate native Bluetooth support, the 4k Joey will make it easier than ever to connect to other electronics. It is an ultra-thin receiver that makes it easy to mount and hide behind any flat screen TV.



Humax

Freeview HDR-1800T

Retailing in the UK at £139.99, the compact box offers the smallest and lowest-cost, subscription-free option to access the key benefits of Freeview. The smart TV guide provides access to watch over 60 digital TV and radio channels, including 12 in HD, with the integration of feature-rich content from the leading On Demand player, alongside advanced recording and

ARRIS-VIP4000-VIP5000



seamless multimedia and home networking capabilities.



Orange

Orange TV stick

A HDMI dongle that plugs into the HDMI port of a TV set and connects

to the home WiFi. The TV stick is a pure OTT product that can work over any WiFi broadband access and uses both 2.4GHz or 5GHz band for more spectral efficiency. In a nutshell, all of a user's favourite content is now just one 'click' away from the big screen. It is one of the first branded streaming sticks provided by a European payTV firm.

Social Media Risks

Understanding and building strategies
that mitigate risk

Social Media Risks Forum 2015

15 October 2015, St. Pancras Renaissance London Hotel

The Social Media Risks Forum, led by key industry speakers including Accenture, Bell Pottinger Digital, Cass Business School and J Arthur Consulting will explore all the issues, legal, technical and social, and effective strategies to create effective control and bring benefits to organisations of all types.

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Best monitoring or network management solution

THE SHORTLIST



Cisco

Prime Home

Prime Home is a feature-rich, standards-based remote

management and provisioning solution that provides visibility into the home network, reduces operational costs, and improves the subscriber experience. Based on the TR-069 suite of protocols, it offers service providers the tools they need to discover and manage gateways, STBs, and a variety of devices in the home, as well as services and network types.



Conviva

Precision

Precision is the experience optimisation engine, which takes a real-time virtual map of the Internet and pre-emptively adjusts picture resolution (bit-rate) and delivery pathways to ensure a smooth, swift, interruption-free stream for premium video experiences. It can be integrated with an existing CMS to provide server-side optimisation; and/or integrated at the app level to support dynamic mid-stream adjustments that reflect the changing conditions of the Internet.



Viavi Solutions

Video Service Assurance (VSA)

Viavi Solutions has just upgraded its Video Service Assurance product line, creating the only software-based solution that monitors operators' video services end-to-end from the video source to the end device with active and passive testing. The VSA solution monitors the quality of operator-hosted video streamed to devices; proactively identifies and resolves problems having the greatest impact on service. It supports IPTV, VoD, cable TV, and adaptive bit rate services.



Nevion

VideoPath

A media network management solution that has experienced a considerable degree of success in the past year or so, with live deployments by leading broadcasters and telcos. VideoPath has been recently enhanced with the addition of a service assurance (monitoring) capability, and the support for SDN through the integration with industry standard protocol OpenFlow.



Skyline Communications

DataMiner

DataMiner is a multi-vendor NMS/OSS, managing media networks end-to-end, used by over 500 customers around the globe. It offers visibility, control, confidence and SLA monitoring of the entire infrastructure and all services. The advanced and newly added session, resource and connectivity management facilitates workflows crossing the traditional boundaries of applications, technologies and vendors (4,000 device types from over 500 vendors, increasing daily).



Witbe

OTT End-to-End Monitoring Solutions

The OTT monitoring solutions tackle the problem of quality issues using a unique top-down approach, analysing the streams quality from the edge to the core. This approach enables services and content providers to detect black / frozen screen, rebuffering risks as well as to locate bottlenecks and to be alerted on delivery problems in real time.

POWER IS IN CONTROL

New streaming technologies, new problems. The OTT architectures come with multiple third-parties, fragmented technologies, crumbled roles and responsibilities. To measure and control the Quality being actually delivered at the end of the chain, where it matters, has become a major challenge met by the Witbe OTT Technology.

Whatever your areas of interest are, the Witbe OTT Technologies let you know what your End-Users really experience, and let you drill back up to the root causes of the degradations of performance. Unavailability, distortions, artefacts, absence of sound... Prevent your customers' complaints with global, relevant and real-time alerting.

Witbe OTT Technology.
Control the Quality delivered
in unmanaged architecture.



Meet us in 2015 at:
IBC #4.A71
Cable-Tec #1209

Best content protection technology

THE SHORTLIST



Ericsson DRM

The Digital Rights Management solution provides end-to-end

protection of media services to consumers, secures mature services and protects the content to be delivered. Ericsson meets the challenge of ensuring that the terms of the service are upheld while the media itself is protected from piracy - all in real-time, anytime, anywhere.



Irdeto

Keys & Credentials

Keys & Credentials is designed to allow operators regain direct control over their media distribution ecosystem, by outsourcing the operation of all security processes. K&C allows them to determine exactly which vendors and technology partners they wish to work with and when. The solution is a fully managed service, relieving them of the day-to-day operational headache.

NAGRA_anyCAST



NAGRA

anyCAST CONNECT

A next-gen connected security solution for broadcast, IPTV, OTT and the connected home, offering hybrid CAS/DRM content protection for connected devices including STBs and connected TVs. Part of the anyCAST Security Services Platform, anyCAST CONNECT provides a single CAS/DRM client to securely and cost-effectively deliver any content, over any network and to any device it enables.



NexGuard

Subscriber-level Forensic

Watermarking of UHD VOD Content

To meet Movielabs requirements and gain access to Hollywood's premium and UHD content, OTT VoD service providers are now deploying NexGuard Streaming, a new solution based on Civolution's forensic watermarking technology. The solution has already been successfully deployed by operators in eight countries across Europe and Russia.



Verimatrix

VCAS Ultra

VCAS Ultra is the next-generation of the Video Content Authority System architecture. It offers operators a comprehensive multi-network revenue security approach today with the flexibility and scalability to meet their future goals for growth.

RAI Amsterdam

Conference 10-14 September : Exhibition 11-15 September



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Best content-on-demand solution

THE SHORTLIST



Aspera FASPSStream

A fully reliable bulk data streaming protocol that delivers data and video streams over internet WANs with game-changing quality, including minimal buffering or glitches and negligible start-up delay.



Clearleap Multiscreen platform

A comprehensive, built-for-scale platform that's exactly aligned with marketplace dynamics in a changing TV environment. Recently deployed by a major content provider, as the platform that powers their re-launched

direct-to-consumer experience. The solution enables consistent user experiences while accelerating application development through APIs that interact harmoniously with target devices and associated streams.



SeaChange Rave

Rave is a premium OTT video platform targeted at media companies and service providers. Rave enables live, time-shifted, PPV and on-demand video services and storefront creation. Content recommendations, discovery and social media are enabled through SeaChange's user experience and third-party apps. Rave is deployable in cloud SaaS and other flexible models, including download to purchase and rent, and couponing.



TV2U TARA TV

An end-to-end managed cloud entertainment platform that controls every stream and can uniquely identify each subscriber and device. Unauthorised access can be cut off immediately when detected, making TARA TV an attractive way to grow revenues and reduce piracy, particularly in challenging regions like China - for this reason, the Chinese government has chosen TV2U to launch the first state-owned streaming service in the country.



Xstream OTT SVOD Lightbox by Xstream MediaMaker

Lightbox offers more than 5,000 hours of premium TV Shows in HD and is available to all New Zealanders. MediaMaker Loading Dock was designed for Lightbox to enable them to automate the content supply chain, gain visibility into the state of orders through each entity and fully automate the packaging, DRM and ingest.



SeaChange
Rave-based TV,
notebook, tablet,
and smartphone

MAKE WAVES WITH OTT.

OTT gives you the power to entertain audiences, engage consumers and expand business opportunities by delivering the kind of individualized brand experience that empowers today's consumer lifestyle. Download the *Three Keys to OTT* guide and discover how you can adopt the best business model, establish the right partner relationships and build the foundational OTT capabilities you need to make waves with OTT.

www.schange.com/ottguide



HALL 1, STAND F70



Best interactive TV technology or application

THE SHORTLIST

applicaster

Applicaster **Live TV Visual Voting**

This solution is designed for live primetime shows. TV group Mediaset Espana brought real-time votes to TV audiences by using in-studio integration for hit formats. When a live primetime programme took place in the studio, the host invited the viewers to express opinions or make key decisions through the TV app. The technology platform automatically renders the photos of all users participating; triggering their Facebook profile pictures on a huge LED wall in the studio.



Freesat **Showcase** Showcase is Freesat's editorial recommendations service, recently

refreshed to deliver a new look user interface and a user experience that is optimised for TV, set-top boxes, mobile and online. The programme recommendation service is powered by a brand new CMS that can dynamically update feeds to multiple platforms. Showcase version 2.0 is an upgraded solution with five major new features.



TiVo Roamio

metrological®

Metrological **Application Platform**

The device and software agnostic Application Platform provides full lifecycle support for operator App Stores and content provider apps on any screen with access to business intelligence data. It includes the ability to build an app store that fits the needs of each market, management tools and an open source SDK for those wanting to build their own app. By using an app framework, operators and content owners only need to develop a single version of an app that can be deployed on any device.

gap forming between traditional TV navigation systems and an evolving entertainment landscape. With a novel hybrid approach, the suite provides fast, predictive and personalised information through dynamic metadata and scalable semantics. Powered by natural language conversational interface technologies offers another way to discover content.



TiVo **Advanced** **Television** **Solutions** TiVo's suite of products and

services work to create a cohesive, seamless viewing experience that works across all screens and platforms, for both domestic and foreign cable operators. Despite millions of pieces of content from countless sources on multiple screens, the TiVo experience is never lost, making TiVo a unique example of a vendor that has been able to innovate and execute against its viewer's demands.



Rovi **Personalized** **Discovery** **Solution**

The solution provides the technologies and services needed to help customers bridge the usability

Best IPTV technology or service

THE SHORTLIST



Ericsson MediaFirst

MediaFirst is an end-to-end cloud-based media platform for the

creation, management, and delivery of next-generation pay TV. The platform embraces all content sources and delivery networks, with the unique ability to deliver live television, video on demand and recorded content across all screens. MediaFirst will enable operators and content providers to provide their customers with a continuously evolving, seamless, and personalised payTV experience across all of their devices. The platform also gives global operators and content providers agile tools and analytics to refine the TV experience in the new era of connectivity.



Marvell Semiconductor ARMADA 1500 PRO 4K

This Quad-core 4K Ultra HD SoC enables global service providers, payTV STB and OTT box markets with high-performance, secure and cost-effective multimedia solutions. The SoC supports the Android TV SDK, enabling global operators to deploy a variety of applications and services to decrease subscriber churn and increase ARPU. Marvell's video processing IP includes an enhanced Qdeo Video Processor capable of 2160p60 10bit HEVC decoding to address Ultra HD content services payTV operators are launching. This innovative architecture unifies the user experience between



Marvell ARMADA 1500 PRO4k

smartphones, tablets, TVs and cable boxes.



Vimond Media Solutions The Vimond Platform

Vimond Media Solutions is a leading enabler of unique digital video services. Having clients all around the world, it develops and markets the Vimond Online TV Platform - a solution for all broadcasters, content distributors and multiple system operators with which one can manage and share video content. It provide to customers a suite of software applications and tools with which they can also publish their content with full control and efficiency on any device. Automation is the new area of focus.



Ericsson MediaFirst TV Profile



CSI Hall of fame



Best mobile TV technology or service

THE SHORTLIST



**Conax
GO Live**
GO Live is a turnkey solution that includes an easy-to-use app

and a backend for secure live streaming of TV channels to iOS and Android devices. The GO Live app has a user-friendly interface, including a favourite channel list, EPG, and start-over TV. The key aspect of GO Live is to make entry into OTT and multiscreen simple, enabling extremely fast time-to-market implementation in less than 30 days and keeping upfront investments to a minimum with a pay-as-you-grow business model. The solution includes a complete, scalable back-end with pre-integrated, multi bitrate live-TV encoders and CDN.



**Motive Television
BYOD**

BYOD brings VO and more to the maritime market, targeting the users existing smart devices. When in maritime environments, these devices have little to no internet connection available, limiting the content available to any pre-loaded before they set-off. BYOD enables users to watch premium

content within the given vessel, on-demand. BYOD is a low infrastructure cost system to install, using the vessels existing WiFi and satellite connection. Content can be on-demand, selected live content as well as tailored content.



**Piksel
Voyage**

Voyage is a disruptive new approach to travel and transit entertainment for air, rail, bus and ferry transportation. It allows transport providers to move beyond the usual passenger entertainment model, making their video content viewable on customer's personal devices, resulting in better consumer experiences and cost savings for businesses. The solution allows passengers to select and

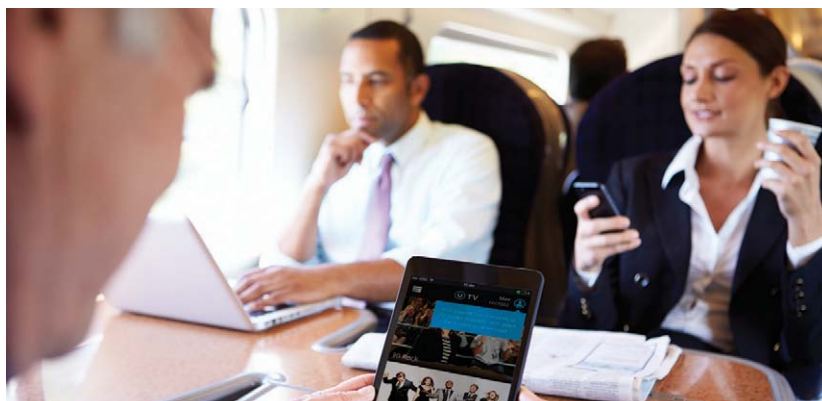
download video content for their journey ahead of departure, which then becomes available to view on their personal devices once their journey begins. The content disappears from devices once the journey has ended.



**SPB TV
Mobile TV Solution**

A combination of server-side and client-side software that enables telcos and broadcast to deliver advanced mobile TV service to their subscribers across all existing mobile platforms for live TV and video on demand services. The solution is based on a flexible SPB TV Media Platform that ensures rapid and cost-effective deployment of commercial mobile services, along with a scalability to grow with the business needs.

Piksel Voyage Tablet



Best web TV technology or service

THE SHORTLIST



Piksel and Channel 4-All4 Pad OnDemand



Piksel and Channel 4 Channel 4 All 4

All 4 project, supported by Piksel, brings together innovation not only in what the users sees but also in how new technology has been built. In creating a unique viewer proposition for accessing a broadcaster's content, Channel 4 have produced a new content delivery framework that enables viewers to have a consistent experience across multiple devices, while providing the platform to personalise, test and rapidly enable new viewer features. All 4 is one of the most advanced platforms for showcasing different types of broadcast content available today.



UPC Hungary Metrological Apps- YouTube



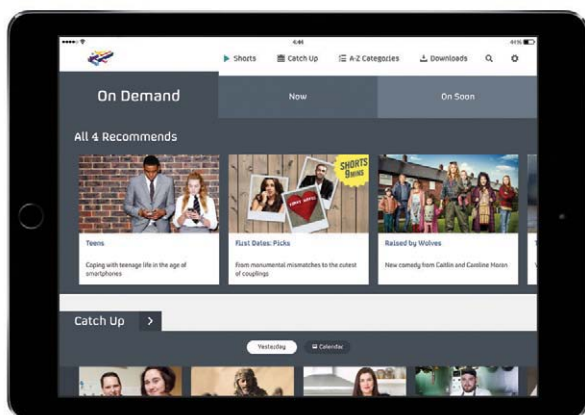
EchoStar Corporation Sling TV

Sling TV is an OTT TV service designed to unlock the payTV market for the new generation of TV viewers for whom cable or satellite TV is no longer a consideration. This app brings together the content discovery of the Internet with popular TV channels. The service requires no commitment, contract or hardware installation.



UPC Hungary Online video and TV apps on existing set-top boxes

Bringing online content to payTV subscribers is a win-win for all parties, but until UPC Hungary teamed with Metrological and ActiveVideo, it had not been done without purchasing costly set-top boxes. UPC Hungary partnered with YouTube and a number of other partners to deliver more than 20 apps on TV via any STB in the UPC Hungary footprint. This provided UPC Hungary with a powerful new service differentiator that is a world's-first achievement: offering an extended source of online video content to every subscriber, without the cost and time-to-market of rolling out new set-top boxes. It has been deployed in over 500,000 existing HD and SD legacy set-top boxes. The user interface (UI) is rendered in the cloud.



Piksel and Channel 4-All4 Pad OnDemand

Best ultra HD TV technology or project

THE SHORTLIST



Broadcom

BCM7252 Ultra HD STB SoC

Building on the company's UHD STB and home gateway deployments with operators around the world, including TiVo, DISH, Vodafone, Tata Sky and Globosat, the BCM7252 has brought powerful security and performance features to the industry's first UHD Android TV set-top box. Brought to market in March 2015 by Free in France, the Freebox delivers a comprehensive suite of streaming, terrestrial, on-demand and recorded content at up to four times the resolution of current HD.



Harmonic

Electra X advanced media processor

Electra X3 advanced media processor is the world's first encoder to support graphics, branding, and playout

functionalities, as well as industry-leading video quality and live, full-frame, frame-pipeline (full-GOP) UHD encoding for broadcast and multiscreen services. The Electra X3 is the only media processing solution capable of delivering real-time, broadcast-ready content at UHD formats up to 2160p60 (HEVC Main 10 profile) in a single 2-RU appliance.



Sky Deutschland F4 meet 4k

SkyD's next major step on the way to regular operation in UHD was the

production and live broadcast of the Fanta 4 concert in December 2014 in Stuttgart. The hip hop band celebrated their 25th anniversary last year. For the first time, a concert was produced by Sky in Ultra HD and broadcasted via satellite in test households and in a Munich cinema. Compared to prior tests, it was possible to produce and broadcast live in UHD with 50 frames per second (fps) and to distribute with the new HEVC compression standard. The UHD broadcast was simultaneously downscaled and shown in HD on the PPV channel Sky Select.



Technicolor

MediaPlay DSI750, The World First 4K UHD Satellite Set-Top Box Deployment

This is the first 4k UHD satellite STB to be commercialised worldwide. It has been deployed at two major DTH operators in India, Tata Sky and Videocon right before the start of the ICC Cricket World Cup 2015 in February. Cricket fans could enjoy the new 4k UHD viewing experience with a fully new 4Kp60 UHD receiver that incorporates HEVC decoding, 802.11ac 3x3 MIMO WiFi solution and USB 3.0 capability among others.



Thomson Video Networks

ViBE 4K Ultra HD Encoder

ViBE 4K is a compact real-time encoding solution for UHD broadcasting. It enables media enterprises to leverage HEVC to provide an optimal video experience to consumers through live compression of UHD sources at up to 60fps, and in 10-bit colour. The ViBE 4K Ultra HD Encoder was featured for the first time at NAB2015 and the product is commercially available.



technicolor-MediaPlay

Best TV everywhere/multi-screen video

THE SHORTLIST



ADB
Graphyne TV
GraphyneTV blends cloud and broadcast delivery with home network

redistribution to efficiently and securely provide payTV services to multiple screens at home and on the move. It offers a combination of operator's linear broadcast TV service, OTT, metadata and related services to thin clients, iOS and Android mobile devices.



Conax
GO Live
A turnkey solution that includes an easy-to-use app and a backend

for secure live streaming of TV channels to iOS and Android devices. The GO Live app has a user-friendly interface, including a favourite channel list, EPG, and start-over TV. The key aspect of GO Live is to make entry into OTT and multiscreen simple, enabling extremely fast time-to-market implementation in less than 30 days and keeping upfront investments to a minimum with a pay-as-you-grow business model. The solution includes a complete, scalable back-end with pre-integrated, multi bitrate live-TV encoders and CDN.



NAGRA
MediaLive

MediaLive is a complete suite of modular components designed to help today's service providers deliver the next generation of multiscreen 2.0 services, enabling a personalised, operator-branded, secure and exciting HTML5 user experience across all devices and networks. It is available as either an on-premise or cloud-based solution and now features support for Dynamic Ad Insertion (DAI), Electronic Sell Through (EST) and Download to Go (DTG).



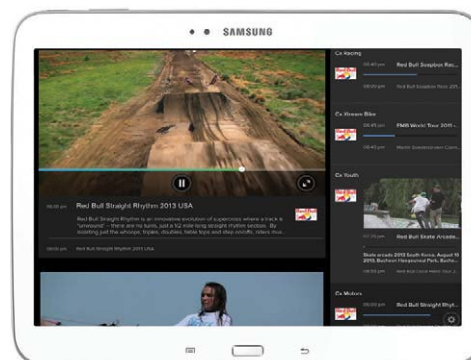
SPB TV
OTT TV solution for Lebara Play
Lebara Play is based on turn-key OTT TV solution by SPB TV, specifically tailored for Lebara's requirements of the multi-ethnic global service, available in the UK, Spain, France, Germany, Denmark and Australia among countries and available in multiple languages. Lebara Play provides users with an opportunity to watch TV channels, both live and time-shifted, and VoD through PCs,

iOS and Android devices and its branded STBs.



Virgin Media
TV Anywhere

Virgin TV Anywhere, the most comprehensive multi-screen entertainment service in the UK has undergone a record year of growth, changing the way customers enjoy their TV service and laying the path for rival services to follow. Offering more channels and unique functionality than its main rival, Sky Go, it enables Virgin Media TiVo customers to get more from their subscription at no extra cost. With Virgin TV Anywhere Users can view the most live channels anywhere in the UK over WiFi, manage their TiVo box and discover new content anywhere in the world over 3G or 4G.



ADB GraphyneTV

Best social TV technology, service or application

THE SHORTLIST



never.no Story

Story is designed for TV producers and advertising agencies tasked with creating social elements for on-air events. STORY's easy-to-use visual interface allows content producers and agencies to intuitively gather, manage and insert social content into programming and advertising by aggregating user-generated content from social media. STORY drives companion apps that enable viewers to interact with their televisions and adverts using an iPad, PC or smartphone.



Orange Watch With Twitter

One of the challenges when watching TV is simply deciding what to watch. That's why Orange has launched Watch with Twitter, a smart TV guide that shows which TV programs are trending on Twitter: users choose what to watch by seeing the most tweeted shows in real-time on TV. They can also access the program Twitter feeds in a fun and compelling way. Watch with Twitter

delivers an enriched and unique TV experience to customers.



SeaChange Timeline

SeaChange Timeline is a social media discovery and analytics platform enabling news broadcasters to surface relevant social conversation that enriches stories and the viewer experience. Bringing a new level of insight and analysis to bear, Timeline helps news organisations differentiate their approach to news production, expand audience share, build engagement and heighten brand presence.



Vimond Media Solutions Highlights

Vimond Highlights is a new product that has revolutionised video highlight extraction from live streams. It allows editors to create and share clips almost instantly on all relevant social media platforms owned by a broadcaster. With the support of very light-weight software, broadcasters are able to leverage existing infrastructures, yet gain speed in clip production. Vimond Highlights was successfully used during the 2014 Sochi Olympics, when TV 2 Norway reached new peaks of success and efficiency.



Story.

by never.no

never.no's STORY makes it easy to produce engaging Social TV formats for programming, advertising & digital.



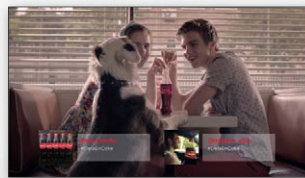
Digital Video



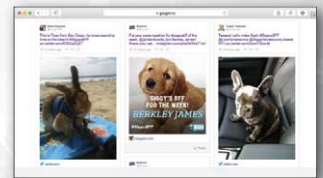
Programming



Advertising



Web/Mobile



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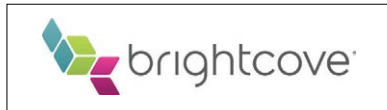
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Best HbbTV technology or service

THE SHORTLIST



Brightcove

Video Cloud HbbTV Solution

The Video Cloud HbbTV solution simplifies delivery of personalised video and interactive experiences to users of connected TVs and set-top boxes. With full support for the HbbTV video delivery specification, Brightcove enables publishers to engage TV audiences by providing access to catch-up TV VoD services, companion content

and interactive television. Video Cloud handles video publishing and distribution requirements, such as multi-bitrate streaming and scalability, plus pay-per-view and subscription services for the HbbTV standard. The HbbTV solution uses MPEG-DASH streaming technique to deliver the best quality streaming video to multiple devices with a single format, massively reducing the complexity and footprint of a video platform's catalogue. The DRM packaging and license serving is done through CENC Common Encryption, the most comprehensive multi-device content security solutions for protecting streaming content against unauthorized viewings.



Sofia Digital

HbbTV Platform

Sofia Digital's HbbTV technology is powering transmissions already for example in Finland, Hungary, Estonia and Turkey - with many more pilot installations successfully installed. In addition to playout signalling and management we have developed a set of ready-made tools for controlling the user experience in an HbbTV environment. These include red-button Launcher, an Enhanced EPG, portal templates, news applications, video applications and much more. With Sofia Digital HbbTV Platform the customer can start their HbbTV service with one of our ready-made applications or benefit from our extensive knowledge developing custom applications.



Sofia Digital Hbbtv Platform



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Best data & analytics innovation

THE SHORTLIST



Crystal Video Metadata Analyzer (VMA)

VMA is used to view, describe and correlate the

presentation of programme content based on included metadata. It can alarm on anomalies due to errors, latency or jitter in the transmission path. It ensures metadata accuracy by capturing and logging video metadata, including SCTE 104 and SCTE 35 messages. VMA checks for the presence of metadata, assures it is properly formatted, ensures it complies with business rules, and presents the analysis, errors and details in an actionable format.



Genius Digital Frequency and Intensity Test

Operators can use this to get a better understanding of how valuable programmes and channels on their platform are, beyond the traditional measures of reach, ratings and share. Operators can now also use the Frequency and Intensity Index to measure the engagement, or Intensity, of their content. This gives operators the ability to make much more

informed decisions about what content they acquire for their services, and how best to promote it.



IneoQuest Technologies Audience Measurement Platform for Adaptive

Streaming (AMP ASM)

An online/OTT video viewership analytics solution that measures and correlates video quality and viewer behaviour collected from the audience's devices and the edge of the content delivery network. It allows operators to understand viewership/user behaviour: why are the viewers behaving as they do? With AMP-provided knowledge, more informed business decisions are possible, and use this information to improve their ability to monetise their multiscreen video initiatives.



S3 Group StormTest Warning Center

This is a live service test automation system

designed to provide video service operators with a thorough understanding of the QoE of their live video services. It proactively tests and



S3 Group StormTest Warning Centre

monitors services, simulating user activity on a range of multi-screen devices, to probe for customer impacting issues, and supporting the triage of issues across multiple network locations.

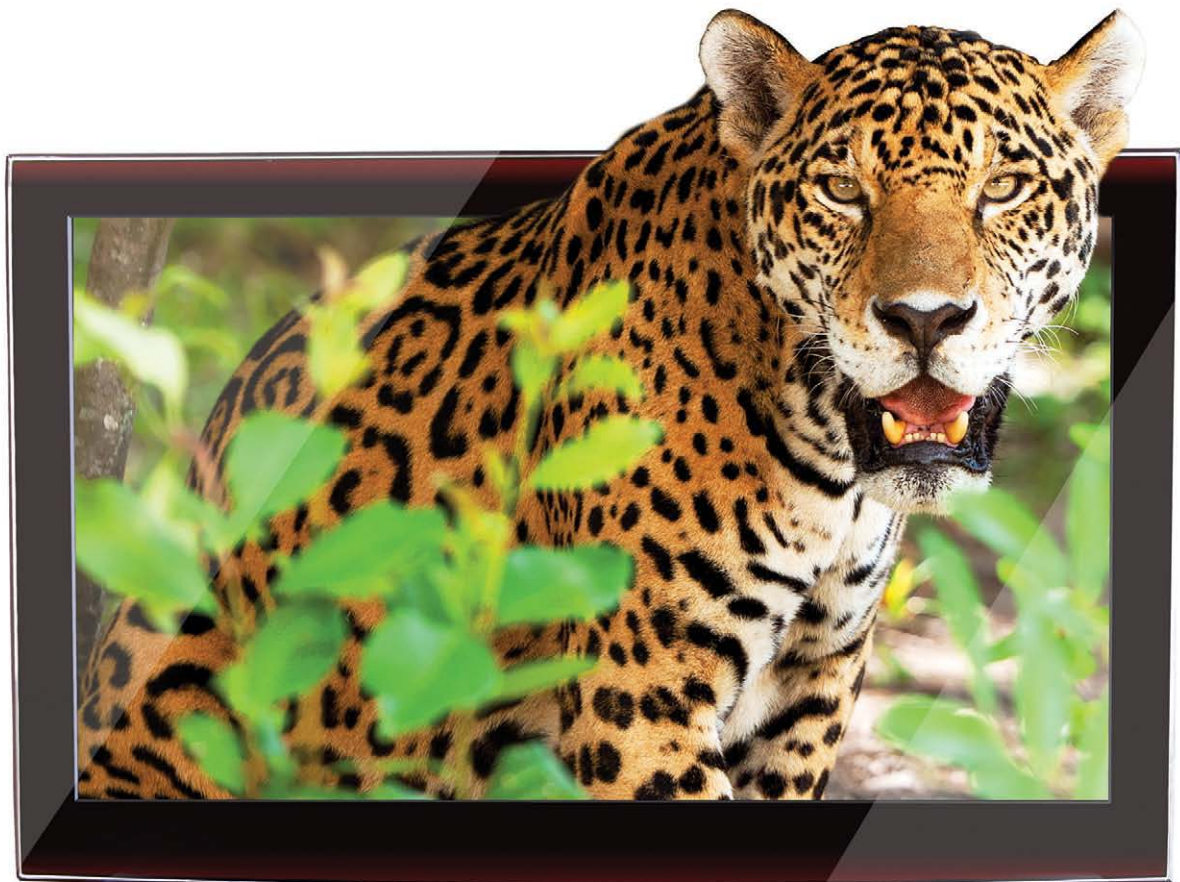


Tvbeat Tvbeat

A next generation TV analytics SaaS platform that uses cutting edge technology to collect, process, merge and present TV data in a simple web-based interface. Through partnering with payTV platforms, broadcasters and TV advertising research incumbents (currencies/JICs), TVbeat empowers its clients by optimising subscriber retention with personalised recommendations and removing the problematic zero-rating issue.

Size isn't everything. Even in TV

geniusdigital
actions from data



The value of a programme goes far beyond how long someone watches it for. Genius Digital's Frequency and Intensity tool helps operators unlock the true worth of their content

We help operators in North America, MENA, Asia and North America to turn data into insights that make their businesses more profitable. Come and see us at stand I4.F33 to learn more.

Best cloud/virtualisation innovation

THE SHORTLIST



ActiveVideo **CloudTV StreamCast**

ActiveVideo's CloudTV StreamCast virtualises STB functionality and provides cloud-based media and content security adaptation, enabling delivery of online video user experiences to subscribers' existing STBs without the cost/time-to-market of new equipment. Deployed by UPC Hungary and YouTube, it enables online providers to create TV experiences for entire payTV footprints, while unlocking access to online content libraries for payTV operators/subscribers.



Ericsson **Video Storage and Processing Platform**

This solution integrates and virtualises the storage and processing capabilities of as many COTS servers as needed into a unified, software-based cloud infrastructure. Optimised for media, it's ideal for time-shifted services, like cloud-DVR and can scale-out to support hundreds of petabytes of video storage. This disruptive technology is capable of sustaining high recording and playout concurrency.



Harmonic **VOS software-based, fully virtualized media processing platform**

A software-based, fully virtualised platform that unifies the entire media processing chain, for broadcast and multiscreen. Key functions of video delivery infrastructure - including ingest, compression, graphics and branding, packaging and delivery - on common hardware platforms, the VOS architecture leverages IT economics to provide content and service providers with the ability to simplify workflows, maximise flexibility, gain operational efficiency, and lower their TCO.



Imagine Communications **VersioCloud**

A software-based, IP-enabled integrated cloud playout solution that runs on commercial off-the-shelf IT platforms. It enables media companies to manage their entire video channel operation virtually to accelerate channel launches, quickly reach new markets, flex between CAPEX and OPEX business models and scale to achieve new levels of profitability



Keepixo **Genova Virtualizable Software**

A cloud-ready and broadcast-quality software suite targeted at content and service providers. It includes all the components needed to build multiscreen video workflows for OTT and IPTV services. The latest version of Genova features major enhancements including a new virtualisable architecture, support for HEVC/4K, additional DRM schemes, Ad Insertion and catchup functions.



NAGRA **MediaLive Cloud-Based Multiscreen solution for the VOO 'Be tv Go' OTT service**

A multiscreen solution for the VOO 'Be tv Go' OTT service, MediaLive, enabled VOO to deploy a secure live and on-demand OTT streaming service across Belgium on a variety of devices, powered by NAGRA Cloud TV Services. Deployed in the cloud, MediaLive allowed Be tv to deliver the OTT offering in just five months.

Best smart home product, technology or service

THE SHORTLIST



ADB **Smart Home Suite**

A full range of applications for Home Security, Home Automation

and Energy Management offering operators wider product portfolio and new revenue streams. Smart Home Suite features a rich catalogue of sensors, different gateway options, a complete Cloud back-end and User-friendly Applications (for PCs and mobile devices). It offers a comprehensive set of functionalities for controlling home services from indoors and outdoors.



EchoStar Corporation **SAGE by Hughes**

SAGE by Hughes is a fully integrated, self-monitoring security and home automation management solution that is simple, secure, and affordable. This in-home hub solution has unique features such as local emergency response capabilities and customisable rules functions combined with the ability to seamlessly control of all the home's automation-connected devices on the TV and remotely through a

single app on iOS and Android mobile devices. SAGE is compatible with any programming provider's satellite, cable or even an OTA receiver.



SoftAtHome **Swisscom Top Speed Media Smart Home solution**

The Swisscom

Internet-Box offers its users speeds up to 1Gbps as well as unique new features. Its core software powered by SoftAtHome, this Gateway delivers a number of functions that change the way customers use their broadband connection. Thanks to its modular architecture, it allows other functions to be added, thus making the device future-proof. A major innovation of the Swisscom Internet-Box is the seamless support for multiple high-speed WAN interfaces (ADSL, VDSL2, vectoring, LTE, Fibre), making it able to deliver the fastest broadband connection to the widest range of homes in Switzerland.



SAGE by Hughes-Best Smart Home Product



Best IoT product, technology or application

THE SHORTLIST



Arxan Technologies **Expanded application protection for all major IoT platforms**

Arxan protects applications that are running in the IoT, with application security ranging from installed protections of mobile apps that control the IoT device, to IoT firmware / embedded applications (such as wearables) and applications on open IoT platforms. Arxan launched its application protection for the IoT ecosystem in 2015 with support for all major IoT platforms.



Cisco **Connected Life** Connected Life is a scalable and modular platform that

enables service providers to deliver a host of new services in- and around the home. Provided as a service and hosted by Cisco Cloud Services, Connected Life uses an Open standards-based, RESTful API-driven SW framework to support multiple apps on a single platform. By incorporating Cisco's Prime and Prime Analytics, provisioning, remote monitoring, diagnostics and app life

cycle management is accomplished while ensuring the connectivity between the in-home sensors and the rest of the network. From home monitoring and energy management to telemedicine, Connected Life can deliver it all.



EchoStar Corporation **SAGE by Hughes**

See Smart Home category on page 33 for more details



Golgi **Golgi**

Golgi is a cloud service for IoT developers who want to interact with their embedded devices from a Mobile or Web Application. It is comprised of two parts; the first allows the developer to characterise the types of data and the interactions needed between the embedded device and the application in an interface definition, used to generate code. The second is the intelligent delivery engine which orchestrates connectivity between the embedded device and the application.



LogMeIn **Xively**

An enterprise IoT platform & application. It simplifies the way companies securely and robustly connect their products & users to manage IoT data at scale. It helps address the practical needs like developing secure, scalable and reliable connectivity, as well as building the right data processing services, business applications, API connectors, and IoT-enabled support.



Piksel AT&T **U-verse Wearables**

U-verse TV on the Samsung Gear S watch and in doing so are pioneering the use of wearable apps in media and entertainment. The trendiness of wearable technology was a natural move for AT&T as it looks to create value for over 6 million subscribers.



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