



HbbTV services and devices at IBC 2012

Abertis Telecom

Hall 1 / Booth C81

ABERTIS TELECOM and NAGRA-Kudelski Group will showcase their Multiscreen Television Cloud Service launched earlier this year and aimed at Broadcasters, Service Operators and New Entrants. The Service includes an HBBTV turnkey Solution and enables catch-up TV and VOD services with different business model (AVOD, TVOD and SVOD). The system relies on building blocks from ABERTIS TELECOM, NAGRA and strategic partners, fully operated and monitored in ABERTIS's TELECOM's industrial datacenters.

ABOX42

Hall 14 / Booth 352

ABOX42 is a leading provider of IP & OTT set top boxes and services for network operators and content providers. ABOX42 will introduce its latest hardware platforms B12 and M12 which support all common application environments such as HbbTV, HTML4, HTML5, CE-HTML. The ABOX42 platform supports fast application development, short project cycles, low min. order qty's. and full software lifecycle management.

ACCESS

Hall 14 / Booth 103

ACCESS showcases its industry-leading HbbTV Browser running on Intel and STMicro chipsets, which is based on the latest Webkit developments and the renowned NetFront™ Browser technologies. ACCESS NetFront Browser is the most widely available embedded Internet browser in the world today and it has been shipped in over one billion devices around the world, including digital TVs, set-top boxes, mobile phones, game consoles, etc. NetFront Browser NX supports latest HbbTV, HTML5, and Remote UI technologies to provide best Connected TV experiences.

ANT

Hall 4 / Booth C98

ANT is demonstrating its widely deployed ANT Galio HbbTV Platform along with the HD+ SmartTV portal. The ANT Galio HbbTV Platform consists of the powerful ANT Galio Browser, a CE-HTML browser specifically optimised for the embedded TV market, together with a full set of HbbTV extensions, tightly integrated to deliver reliable TV functionality with compelling user experiences. The ANT Galio HbbTV Platform not only delivers HbbTV compliance, but also support for a range of popular international catch up TV services and a wide range of portal services. This highly flexible TV service support gives device vendors many opportunities to differentiate and rapidly deploy their products driving strong returns on product investment.

Arion

Hall 4 / Booth A75

Arion will be showcasing its HbbTV-implemented HD PVR and latest solutions for Hybrid services for operators.

Awox

Hall 4 / Booth C58

Showcase of AwoX HbbTV 1.0 & 1.5 Receivers selected by industry, and capable to stream thanks to DLNA Premium Video content and user interface to tablet, smartphones for second screen applications and/or multiscreen user experience.

Broadcom

Hall 2 / Booth C39

Supporting HbbTV on a range of set-top box platforms, Broadcom will be demonstrating HbbTV integration on the Broadcom BCM7356 40nm satellite set-top box system-on-a-chip at IBC 2012. Broadcom's solution also integrates Tara Systems Inaris DVB solution and Opera software's browser technology to accelerate the time-to-market for HbbTV compliant devices. Broadcom is committed to designing platforms that securely deliver broadcast, broadband and Over-the-Top content and services, enabling viewers to enjoy premium video, Internet and Apps anywhere.

CreNova

Hall 4 / Booth B78c

CreNova Technology, supplier to worldwide A brand OEMs and Operators has implemented an Opera based HbbTV retail strategy, offering set-tops that will enable consumers to access a range of advanced services, including interactive TV advertising, VOD and catch-up TV. CreNova now covers the complete bandwidth in reception: from MPEG-4 DVB-S2, -C HD, - T2, Combo- and Twin-Versions as well as Hybrid IPTV Receivers, optionally also with DRM and VOD. The concept of the company is unique by developing tailored and

innovative products which are manufactured at high quality in EMS companies in China and offering short lead times thanks to OEM and operator projects all over the world. CreNova stands for „CREATE NEW“. The company headquarter is in Sulzbach/Taunus.

Dolby Laboratories

Hall 2 / Booth A31

Dolby will be showcasing a scenario where a broadcaster announces availability of video with 5.1 Dolby surround sound on HbbTV. This demonstrates the value broadcasters can provide to their viewers delivering catch-up content via broadband with Dolby Digital Plus, providing the same immersive experience as on broadcast.

DiscVision

Hall 4 / Booth B50

DiscVision presents the Genius HD twin tuner satellite receiver on the booth of its partner Altech SetOne GmbH. The Genius HD receiver combines a HbbTV stack with a complete web portal, the watchmi recommender technology and various other applications such as home control, DLAN client and server, remote programming and placeshift functionality.

European Broadcast Union

Hall 10 / Booth F10

The EBU will be showing, for the first time, MPEG-DASH play out on a HbbTV 1.5 television. The demonstration will include both Live and On Demand sources with adaptive streaming using the new standard. Partnering in the demonstration are LG, with the first prototype HbbTV1.5 television supporting MPEG-DASH; Elemental Technologies providing the encoding; CodeShop arranged the packaging and delivery of the stream and the HbbTV application is triggered by a URL in the Transport Stream modulated by Dektek equipment.

Fortis

Hall 4 / Booth B70

Fortis will show its products for HbbTV, an ST-based DVB-S2 satellite receiver that implements the HbbTV specification in its client software. Fortis integrates the hugely successful NetFront Browser from ACCESS with HbbTV signalling and Fortis's proven DSM-CC client.

Fraunhofer FOKUS

Hall 14 / Booth 230 (OIPF booth)

Visit us to get informed about our recent developments and cutting-edge technologies in the field of Future Web Technologies, interactive and tailored media applications and multi-screen services for SmartTV environments, including:

- Browser-based DRM for DASH - The upcoming streaming standard for the Web and HbbTV 1.5
- TV Predictor - your personal TV experience. Personalized program recommendations based on the customers watch behaviour using HbbTV technology.
- Interactive and clickable videos for SmartTVs - Content created and distributed through cloud based media services and social networks.

GlobeCast

Hall 1 / Booth A29

On its booth, GlobeCast will be presenting its collaborative HbbTV trial with France24, Orange, and satellite operator SES. Participating DTH satellite TV viewers in Western Europe use their HbbTV-enabled connected televisions to interact with FRANCE 24's linear and non-linear programming via their broadband connection - no additional equipment or hardware is required. The trial is led by GlobeCast using its broadcast experience and knowledge of connected television. GlobeCast is also providing ground services and uplink from its Paris technical operations center. The satellite feed is being delivered via the Astra satellite at 19.2°E - SES' leading orbital position in Western Europe. Orange is using the CDN expertise of its Smart Networks Program to drive the broadband delivery of this service. The result is an integrated solution that promises to deliver a robust experience for the end viewer.

httv

Hall 5 / Booth B26

httv is a France and Singapore-based leading solution provider for interactive digital TV. The company works with the world's most successful pay-TV operators and CE manufacturers DVB-S/C/T/T2, IPTV, hybrid, OTT. At IBC 2012, httv will showcase its HbbTV compliant STB turnkey solutions: last release, first commercial deployment on Teledesic, deployment on manufacturer GMI for HD+ SmartTV standard, etc. httv will also showcase its dedicated head-end products: "httvStream HbbTV" a play-out solution, "BAM" its broadcast application manager tool and "HbbTV Starter Kit" a simplified version of the play-out for non broadcast specialist.

HUMAX

Hall 4 / Booth A80

Across Europe, Humax has been actively involved in many key digital TV initiatives, including the Germany's HbbTV service, the UK's Freesat and YouView digital TV service. At the IBC Humax will demonstrate its newest STB generations with HbbTV plus additional innovative technology and smart media consuming features.

Icareus (co-exhibit Screen Systems)

Hall 1 / Booth C49

Icareus provides products for better TV experience to enable broadcasters and operators to achieve higher viewer satisfaction in more than 40 countries. Our products for HbbTV head-ends include Carousel servers and EPG data generators to create the necessary signalling for HbbTV Applications. Our TV Anywhere platforms and TV Applications (e.g. Enhanced EPG, Catch-up TV, Social Media and Games) are future proof solutions offering solid long term roadmap to our customers.

Institut für Rundfunktechnik (IRT)

Hall 10 / Booth F51

IRT presents a comprehensive HbbTV showcase with "next generation" HbbTV applications using a generic framework for interfacing between TV and a smartphone or tablet PC. Also other innovative interactive HbbTV services are on display. Furthermore the IRT Broadcast Server will be demonstrated, a PC-based transport stream server for DVB, HbbTV and IPTV. IRT's Broadcast Server (re-)multiplexes in real-time all required programme and service information and streams the transport data for DVB-S/S2, DVB-C, DVB-T and IPTV.

INTEK Digital

Hall 5 / Booth B37

INTEK Digital, Inc., the Hybrid SET-TOP-BOX solution provider presents HbbTV applications with HD+ interactive portal and Android based Over-The-Top box.

Inverto

Hall 2 / Booth A30d

Inverto provides turnkey broadcast reception, distribution and software solutions to operators, broadcasters, Set-top Box developers, and chipmakers. Nuxus(tm)' Inverto's HbbTV browser and software stack, is one of the industry's first and best performing, proprietary solution, that is embedded in its Volksbox products and in products of key tier-1 OEM's and operators across EMEA markets and beyond. Nuxus(tm) is the industry's most complete HbbTV software stack, licensed with option for support of multiple Digital Rights Management engines, as well as adaptive streaming (MS Smooth streaming and Apple HLS) compliance for OTT services. Nuxus is Webkit-based HTML5 capable and optionally supports MPEGDASH and MPEG-CENC.

At IBC 2012, Inverto demonstrates

- MultiBox(tm) - a revolutionary Sat-IP Server delivering Multiscreen Satellite TV over home networks supporting delivery of HbbTV applications to client devices such as tablets and smart phones
- Volksbox Secured (Nagravision) Hybrid HbbTV-compliant HD+ STB series
- aircscreen(tm) - OTT/IPTV/Hospitality TV client/server Middleware.

iWedia

Hall 1 / Booth C91

iWedia showcases its Teatro-3 line of turnkey software solutions specifically targeted at hybrid broadband and broadcast and OTT services. It integrates the field proven iWedia Comedia-3 broadcast software stack with all typically required connectivity components in a Linux (Teatro-3.0) or Android (Teatro-3.5) environment with fully customizable end user apps developed in either HTML5/JavaScript or Java. Support of HbbTV is a key feature of Teatro-3 which comprises a WebKit-based HbbTV browser compliant with versions 1.1.1 and 1.5 of the specification.

KAON

Hall 1 / Booth B16

KAON will show its Broadcom-based DVB-S2 satellite and Cable receiver that implements the HbbTV specification in its client software. KAON integrates the hugely successful NetFront Browser from ACCESS with HbbTV signalling and KAON's proven DSM-CC client.

Ocean Blue Software

Hall 14 / Booth 103 (Access booth)

Ocean Blue will be demonstrating their HbbTV solution, together with ACCESS' industry-leading HbbTV browser, based on the renowned NetFront™ Browser technologies. Ocean Blue's advanced Sunrise DVB core is mature, robust and has been deployed worldwide. With support for multi-core CPUs and multi-tasking Ocean Blue software maintains its HbbTV browser agnostic approach to the market and offers various solutions. Ocean Blue can provide complete turnkey solutions for DVB-C, DVB-S2 and DVB-T/T2. Our Voyager MHEG-5 and the associated DSM-CC / AIT handler can be provided as modules to work alongside a third party HbbTV browser.

OPENTECH**Hall 5 / Booth C42**

At IBC 2012, OPENTECH will demonstrate HbbTV compliant set top box that will be able to access variety of OTT services,

- Opera based HbbTV support
- Over-the-top service such as Youtube, VOD, on-demand contents.

Opera**Hall 5 / Booth B47**

Join us to see the latest in browser based applications for TV's. Opera will be showcasing applications enabled by our HTML5 and HbbTV browser technology, including the Opera TV Store, Media Streaming, WebGL and HbbTV solutions for TVs, STBs and other devices. Stop by our booth to see our new HbbTV emulator with debugging tools for HbbTV application creation.

Optiva Media**Hall 1 / Booth C81 (Nagra)**

Optiva Media has developed several HbbTV applications that allow playing encrypted and clear pay content on different devices. We have integrated HbbTV applications with advertisement systems such as SmartClip and SmartAd and also with Google Analytics for application use measurement. We also have integrated with different payment gateways (PayWizard, bank PSTs, ...). At IBC, we will demonstrate an HbbTV VoD portal that displays encrypted and clear HLS content in a Samsung television. The content is decrypted using a SmartDTV CAM.

S&T (Strategy & Technology)**Hall 1 / Booth B30**

S&T will show its TSBroadcaster2 for HbbTV: The second generation of S&T's DSM-CC Object Carousel for DVB platforms, which includes full support for broadcast carousel playout of HbbTV applications and generation of associated AIT signalling with ASI or IP transport stream output.

Shenzhen Skyworth Digital Technology**Hall 4 / Booth B61**

Skyworth will demonstrate HD DVB-S2 PVR ready with HbbTV and interactive portal delivers VoD, Youtube, Weather, Facebook, Twitter etc. Microsoft playready DRM is supported. Conax, Irdeto and NDS CAS are available for different customers.

SmarDTV**Hall 1 / Booth C81**

SmarDTV, in cooperation with Wiztivi, introduces a universal solution for Cable VOD on connected TVs. SmarDTV demonstrates a turnkey solution for Cable VOD in SmarCAMs (Conditional Access Modules) based on CI Plus and HbbTV. This solution allows Cable Pay-TV Operators to deploy their Video-on-Demand (VOD) services directly to any connected iDTV, without using a STB. The use of open standards for security and applications gives to operators the opportunity to customize their offerings in a homogeneous manner for any connected TV.

Sofia Digital**Hall 8 / Booth A82**

Sofia Digital is presenting a Radio services application for HbbTV together with our partner Jutel. In addition you can learn more about other Sofia Backstage HbbTV products such as:

- HbbTV Server with a Launcher application
- HbbTV Benchmark application and service for testing and measuring HbbTV receivers' performance.

STMicroelectronics**Hall 1 / Booth F40**

ST will be showcasing HbbTV solutions on different classes of its products, including the STiH237 decoder family, which features an integrated DVB-S2 (Digital Video Broadcast-Satellite 2) demodulator and suits satellite hybrid boxes, as well as on the STiH273/STiH223 that include DVB-T (digital-terrestrial) and DVB-C (digital-cable) annex A/B/C demodulation. All these new devices support the full range of HD broadcast and multimedia codecs, hybrid and IP standards, as well as the latest security and content-protection standards, making a perfect fit for the HbbTV markets. HbbTV will also be demonstrated on ST's latest ARM based architecture devices for Set Top Boxes and TV's, respectively Orly and Newman devices.

TDF**Hall 1 / Booth B79**

TDF will be displaying a unique and innovative replay service on live programs by means of an HbbTV application This service called SALTO is available since July in France on the DTT five channels of France Televisions TDF will also showcase a set of uses cases for companion devices. HbbTV makes it possible with pairing content between any tablet and any HbbTV TVset.

more information about HbbTV:**www.hbbtv.org**