



## HbbTV services and devices at IBC 2013

### **ACCESS**

**Hall 14 / Booth 101**

ACCESS showcases its industry-leading WebKit based HbbTV NetFront™ Browser running on Broadcom, Intel and STMicro chipsets. ACCESS NetFront Browser is the most widely deployed 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, e-readers, and much more. NetFront™ Browser NX supports HbbTV, HTML5, and Remote UI technologies to provide best Connected TV experiences.

### **ABOX42 GmbH**

**Hall 15 / Booth 361**

ABOX42 is a leading provider of IPTV & OTT set top boxes and services for network operators and content providers. ABOX42 will introduce its latest Smart STB platform M20 which supports all common application environments such as HbbTV, HTML4, HTML5, CE-HTML. The ABOX42 Smart Platform supports fast application development, short project cycles, low min. order qty's. and full software lifecycle management. The M20 is the first STB which is able to mix an HbbTV layer with both IPTV and HLS/OTT video streams, to provide HbbTV for any type of OTT video services.

### **Adobe Primetime**

**Hall 7 / Booth G27**

Adobe Primetime helps telcos, broadcasters and video distributors profit from TV across every screen. Adobe Primetime offers solutions for IP-based broadcast DRM, ad insertion, ad decisioning, and playback across every device, with complete Quality of Service (QoS) metrics and advanced analytics. The results? Engaged audiences, more revenue from ad sales and subscriptions, and measurable workflow efficiencies.

### **ANTIK Technology**

**Hall 14 / Booth 242**

ANTIK Technology will show for the first time the new Juice Extreme II Home Media Gateway based on STi H.416 Orly chipset which is planned to be delivered with the HbbTV stack delivered by STM. Juice Extreme II is media gateway and decoder equipped with quad DVB tuner, 1gbps Ethernet and 6 parallel transcoding and transrating capability to serve as home storage and streaming server. It operates Android 4.2 (Jelly Bean) and new ST platform SDK2 on ARM Cortex-A9, dual core CPU, SMP NEON SIMD engine yielding up to 6000 DMIPS and ARM Mali-400 quad core GPU yielding up to 1600 Mpixels/s fill rate and supporting up to 1080p60 or 1080p30 stereoscopic 3D graphics.

### **BitTubes GmbH**

**Hall 8 / Booth A25**

BitTubes GmbH is a spin-off of the Fraunhofer Institute FOKUS and provides technology for interactive video. BitTubes will introduce its HbbTV framework for interactive video content, which enables your audience to explore, shop, learn and play while they enjoy watching video.

### **CreNova**

**Hall 4 / Booth B78b**

CreNova Multimedia, supplier to worldwide A brand OEMs and Operators will show their latest HbbTV box for Operators. 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 a high quality factory 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 South Korea with a branch in Frankfurt/Germany.

**Digisoft.tv**

**Hall 14 / Booth 480**

Digisoft will be demonstrating its Iris HbbTV 1.5 software suite at IBC. Aimed at broadcasters, service operators and set top box manufacturers, the Iris software suite extends digital television with application delivery and playback on hybrid devices. Iris OS is a HTML5/HbbTV 1.5 compliant operating system for set top boxes. Operators like Vodafone use Iris EPG Server to control the promotion, bundling and pricing of channels and applications. Built for Android and iOS devices, Iris Second Screen delivers remote control of HbbTV devices and enhanced interaction with VOD, Live Content and advertising.

**Digital TV Labs**

**Hall 2 / Booth A29**

Digital TV Labs will be demonstrating the latest version of its industry leading Test Harness, Ligada iSuite. The widely adopted Ligada iSuite for HbbTV includes options for the French TNT2.0 and Spanish TDT Hibrida Test Suites. NEW for 2013 will be Ligada iSuite for HbbTV/CI+, designed to test compliance for HbbTV devices implementing the Content Service Protection API for communicating with a CI+ module. Digital TV Labs is a leading digital media and device testing specialist, a registered HbbTV Test Centre and provides consultancy, testing tools and services to validate digital media and devices conformance for multiple standards across various worldwide geographies.

**Dolby**

**Hall 2 / Booth A31**

Dolby will present with Sofia Digital's service platform and LG an MPEG DASH streaming scenario with Dolby Digital Plus surround sound based on HbbTV v1.5. This shows the value and immersive entertainment experience which broadcasters can provide to viewers taking advantage of some key standard features provided by HbbTV v1.5.

**DOTSCREEN**

**Hall 2 / Booth B39d**

DOTSCREEN is a France-based leading developer of HbbTV applications in Europe. The company has already designed and developed more than 20 custom HbbTV apps spanning EPG, TV channel and operator portal, VOD, catch'up, app store, sport, weather, music, news, car traffic, horoscope... Our customers for HbbTV apps are France Télévisions, TF1, France24, LCP, Globecast, TDF, Fransat, Cognacq-Jay Images, ComFM, MeteoNewsTV, InfotraficTV, RTL Astro, RFI ... At IBC 2013, DOTSCREEN will showcase its unique suite of HbbTV apps that are available for licensing.

**DTG Testing**

**Hall 4 / Booth C88**

DTG Testing is an active member of HbbTV, chairing the HbbTV Test Group and vice-chair of the Certification Group. We provide active support in the development and maintenance of the HbbTV test suite and are a registered test centre for conformance testing against HbbTV 1.1 All our test suites are run by professional test engineers, providing highly productive, cost efficient test management with a high level of service and support. For more information please contact customerservices@dtg.org.uk

**Eutelsat**

**Hall 1 / Booth D59**

The Eutelsat stand will host the first live demo of the recently announced interactive “smart LNB” that opens the door for broadcasters to operate their own ecosystem of linear television and connected TV services directly by satellite. The “smart LNB” is a new-generation electronic feed connected to an antenna with an embedded transmitter to provide services such as HbbTV, pay-per-view, social networking, live show participation, personal subscription management and audience measurement.

**Fraunhofer FOKUS****Hall 8 / B80 & Hall 14 / Booth 184**

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.

**GkWare e.K.****Hall 2 / Booth C51**

GkWare will show the prototype of an independent (not webkit based) CE-HTML browser implementation for HbbTV. In exchange for an early commitment, we can offer very attractive licensing models. The demonstration system shows the browser already embedded into a full CI+ and PVR enabled DVB middleware, including support for DSM-CC and HTTP based HbbTV content delivery. The market-proven DSM-CC client component and a matching object carousel generation software are also available as independent packages. They support several other standards like DVB-SSU, MHEG-5 etc. in addition to HbbTV.

**HBB-Next****Hall 8 / Booth F40 (Future Zone)**

HBB-NEXT is a European FP7-funded project that takes services and technologies for Internet-connected TVs to a new level. Its platform for new types of hybrid broadcast broadband TV services is based both on current and future versions of the European standard HbbTV. Among the innovations to be tried out at the HBB-NEXT booth are an EPG that tailors its recommendations to groups of people present in the room, multi stream and multi device synchronization as well as services using voice, face and gesture recognition.

**httv****Hall 5 / Booth B18**

httv is a leading international technology and solutions provider for interactive digital TV. httv is deeply committed to the success of the HbbTV standard. Its CEO is the co-marketing chairman of the HbbTV association and the president of the HD Forum, the association who created the specification of the TNT 2.0 project for the French DTT. At IBC 2013, httv will showcase httvLink, its HbbTV compliant open-middleware for connected TV STBs, on various chipsets (STMicroelectronics, Sigma Designs, and Broadcom) and manufacturers (Televes, GMI, Arentia, EKT). The company will also showcase httvStream its powerful HbbTV compliant play-out server and HbbTV StarterKit, the simplified version for non-broadcast specialist. httv will demonstrate HbbTV 1.5 platforms: with Intertrust, for the world's first secured HbbTV 1.5 service, "MYTF1VOD", using MPEG Dash and Marlin DRM technologies; as well as with Thomson Video Networks, for OTT and DVB T2 markets

**HyperPanel Lab (c/o Askey Computer Corp)****Hall 3 / Booth A38**

HyperPanel Lab and Askey Computer Corp - a Member of Asus Group - will showcase their truly disruptive ALL-IN-ONE Multiscreen / Multiroom platform. It is powered by HyperPanel Labs' latest compelling Software suite, featuring both HbbTV, and state of the art Connected TV modes such as SAT>IP (certification pending). ALL-IN-ONE stands as the ultimate best value for money HbbTV Media Home Gateway to date. It is capable of streaming up to 4 original DVB Broadcast TV services to modern devices such as Tablets or Smartphones, hence also offering in parallel advanced Whole Home DVR functions. In a nutshell, it does perform, in a totally seamless manner, as a genuine Home DSLAM & TV Cloud.

**Icareus (co-exhibit Screen Systems)****Hall 1 / Booth C49**

Visit Icareus to see products for better TV experience that enable broadcasters and operators to achieve higher viewer satisfaction in more than 40 countries. Icareus Payout is a HbbTV head-end product range including carousel servers and EPG data generators to create the necessary signalling for HbbTV Applications. Icareus Suite TV Anywhere platform for live and on demand content, including

applications like Rich EPG, Catch-up TV, Social Media and Games, is future proof solution offering solid long term roadmap to our customers to expand their viewership through HbbTV and other end-user devices.

**Institut für Rundfunktechnik (IRT)**

**Hall 10 / Booth F51**

IRT presents a number of interesting applications showing the potential of the HbbTV standard. One of the most interesting ones is our Second Screen Framework, the manufacturer and service independent solution for connecting a second device to the applications on the TV screen. The TVAppGallery implements the concept of an open app store for HbbTV applications. Furthermore, the professional playout system for HbbTV services, IRT's BRAHMS (Broadcast and HbbTV Media Server), brings your HbbTV applications easily and cost-efficient to your customers.

**Intertrust Technologies**

**Hall 5 / Booth B18**

Intertrust Technologies <http://www.intertrust.com> © will be showcasing TF1's commercial VOD streaming service built by SyncTV <<http://www.synctv.com>>™ MPEG DASH and Marlin DRM directly to connected TVs. Intertrust will also be demoing ExpressPlay <<http://www.expressplay.com>>™ the turnkey, cloud-based solution for anyone looking for an easy and inexpensive way to build a service that includes copyrighted content.

**iWedia**

**Hall 5 / Booth B01**

iWedia will be demonstrating their Teatro-3.5 turn key software solution for Android-operated STB which gives support to HbbTV. Putting together Android and HbbTV makes a killing combination that allows to deliver the best of Android apps together with the best of broadcaster hybrid services. HbbTV is also proposed by iWedia as a stand alone software component which has been widely deployed by major TV set manufacturers.

**KATHREIN TechnoTrend**

**Hall 1 / Booth A58**

KATHREIN TechnoTrend will show its new generation of Hybrid Cable and Satellite receivers for broadband, broadcast and OTT services. Based on a Broadcom chipset and powered by the Opera browser, the STBs combine fast HbbTV experience with features like UPnP (client and server), PVR, SmartTV portal access and multi-screen/multi-room support. Visit our booth to see the full range of innovative receivers.

**Media Broadcast**

**Hall 1 / Booth B79**

Media Broadcast will showcase the multithek, an HbbTV-compliant interactive TV portal with more than 60 apps: media libraries, news, sports, shopping, music, weather and more. Additional TV programs broadcasted via DVB-T/S/C are signaling IP-delivered live streams. The benefits for content providers are a quick and affordable entry into the pioneering market of hybrid TV, the possibility to reach new target groups and the establishment of new business models linking television and online services.

**MStar Semiconductor**

**Hall1 / Booth BM5-6**

MStar Semiconductor will showcase MSD7862 and MStar HbbTV on its reference design and its software on some end products.

**NEOTION**

**Hall 4 / Booth B53**

NEOTION showcases "Hbb Tablet", a BlueBridge based solution which allows viewers to navigate HbbTV content on a Tablet or a Smartphone, whilst in front of their main TV screen. TV Channels already publish many HbbTV applications that are related to TV programs : now Hbb Tablet allows to address not only Hbb TVs screen but also the second screen. The HbbTV services displayed on Tablets are the same as those produced for Televisions. With Neotion HBB Tablet no need to have a legacy HbbTV, or even, to connect the TV to Internet to have the pleasure to receive HBB TV content.

**NetRange MMH****Hall 14 / Booth 108**

NetRange is the leading global full-service white label Smart TV portal operator and provides Smart TV portal and software solutions for major clients such as Sharp, TCL, Loewe, HD+/ SES Astra and Media Broadcast, the German DVB-T operator. NetRange offers device-agnostic and fully cloud-based portal solutions in HTML5, CE-HTML and HbbTV. The HbbTV solution includes the possibility to mix DVB-X channels with IP-based linear channels in the same channel list/ EPG. NetRange also provides support in operating a HbbTV portal, like creating a Barker channel, as well as running, maintaining and operating complex HbbTV backend systems. All NetRange portals are available with multiple additional features such as second screen solutions etc.

**Opera Software****Hall 14 / Booth 111**

Join us to see the latest in browser-based applications for TVs. Opera will be showcasing applications enabled by our HTML5 engine, including the Opera TV Store and Opera TV Snap, as well as HbbTV solutions for TVs, STBs and other devices. Stop by our booth to see our HbbTV solution in action and learn more about our HbbTV emulator with debugging tools for application creation.

**Rovi Corporation****Hall 5 / Booth A31**

Rovi is a global provider of entertainment metadata and media guide technologies that work with the HbbTV standard to deliver an intuitive discovery experience to consumers on TVs, set top boxes and other video entertainment devices. Rovi is continuing to lead the market by growing its data footprint globally and building new solutions to help its customers roll out advanced capabilities, such as smart search, personalized recommendations, video streaming and playback technologies. At IBC, Rovi will be showcasing how all of these technologies can work together to create an Entertainment Unbound experience, an ecosystem of services and applications focused on the complete user experience across devices.

**S&T (Strategy & Technology)****Hall 1 / Booth B22**

S&T will show TSBroadcaster for HbbTV: its 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. S&T will also be demonstrating its Control Pad solution that allows a viewer to control an interactive application (HbbTV or MHEG-5) via a synchronised second screen device, such as a tablet or smartphone.

**Screen Systems****Hall 1 / Booth C49**

Screen Systems, Icareus and Digisoft.tv have combined their knowledge and products to present a powerful new solution for broadcasters to monetise content via HbbTV platforms. The HbbTV Toolbox, which can be hosted in the cloud or locally installed, integrates with the delivery of video feeds into an HbbTV environment to provide multiple options for how a TV programme is viewed including second screen devices and the web. The solution enables broadcasters to add a vast scope of additional services to content which consequently opens up extensive opportunities for supplementary revenue generation.

**Shenzhen Jiuzhou Electric****Hall 3 / Booth C56**

JIUZHOU will show hybrid STB, integrates HbbTV specification 1.5, MPEG dash and Microsoft PlayReady are supported, and embedded JIUZHOU TV Portal as well, which provide client to access news, weather, radio and OTT services etc. We also support all kinds of CAS (such as Conax, Irdeto, Nagra NDS,viaccess,Verimatrix, latens)

**Sofia Digital****Hall 2 / Booth A31 (Dolby)**

Sofia Digital is presenting an HbbTV showcase with Dolby Laboratories. Sofia Digital setup at IBC includes a Sofia Backstage HbbTV play-out server with MPEG-DASH and HbbTV streaming scenario. HbbTV service examples includes Finnish DTTV real-life applications and Sofia's latest developments including Enhanced EPG, Main portal (Launcher service), News and information services, Weather, On-demand video and IP-radio services.

**STMicroelectronics****Hall 1 / Booth F40**

ST will be showcasing HbbTV solutions on different classes of its products, including the STiH253 decoder family, which features an integrated DVB-T2 (Digital Video Broadcast-second generation terrestrial) demodulator and suits terrestrial hybrid boxes, as well as demos on the STiH273/STiH223 that include DVB-T (digital-terrestrial), and DVB-C (digitalcable) annex A/B/C demodulation, and the STiH237 that offers an integrated DVB-S2 (Digital Video Broadcast-Satellite 2) demodulator. All these new devices, SW compatible with each other, 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. By co-working with almost all the major HbbTV solution providers in the market, ST is offering to its customers a range of options tailored to their products addressing broadcast, broadband and over the top services. HbbTV will also be demonstrated on ST's latest ARM based architecture devices for Set Top Boxes and TV's, devices.

**TARA Systems****Hall 8 /Booth F40 (Future Zone)**

As a member of the EU-funded project HBB-NEXT, TARA Systems has contributed its platform independent DVB/IPTV Middleware, called Inaris, to provide a fundament for next generation HbbTV services. The HBB-NEXT booth presents Inaris including its browser agnostic HbbTV stack and DSM-CC receiver on a Broadcom 7346 SoC. Based on this, many future-oriented features such as inter-device and inter-media synchronization have been integrated by the project participants. This will give a prospect on the features of the upcoming standard HbbTV 2.0 where TARA Systems is active.

**TDF****Hall 1 / Booth B79**

TDF will be showcasing a full range of end to end best of breed OTT solutions with HbbTV. They aimed at Broadcasters and Operators. This includes contextual services such as synchronised ads, the Restart service on live broadcast which is already available on several DTT French channels and a full fledged EPG. In addition, TDF will also showcase a tablet application companion for HbbTV TV sets , these Uses Cases will also be made possible in the next future with HbbTV V2 standard.

**TechniSat****Hall 14 / Booth C20**

TechniSat will showcase its latest receivers and TV sets. Reception of DVB-S, DVB-C, Hybrid (DVB-C + IP as well as DVB-S + IP) as well as pure IP will be shown. The receivers and TV sets with hybrid reception feature HbbTV as well as other advanced IP functions like free Internet browsing, in home networking (DLNA) and IPTV support. TechniSat Digital manufactures DVB- and Hybrid-consumer electronics s. A European based R&D and production completes the idea of European quality and design. Continuous innovation and outstanding performance make TechniSat a valuable supplier with the expertise to provide custom-solutions.

**Vestel****Hall 14 / Booth A20**

Vestel has been specialized in developing and manufacturing flat panel TVs with integrated digital receivers, digital television recorders, DVB HD & SD and IP STB products.Vestel showcases SmartTVs HBB TV 1.5 feature. Satellite and SAT>IP based Set-Top Boxes supporting HbbTV, various DRM solutions and adaptive streaming technologies will be demonstrated during the show as well.

**Viaccess-Orca****Hall 1 / Booth A51**

Viaccess-Orca will be demonstrating its Hybrid TV solution which ensures a high level of content protection via card-less conditional access, while providing an unmatched layer of interactivity guaranteed to increase viewer engagement. VO's Hybrid TV solution leverages the HbbTV standard enabling providers to offer next-generation EPG and social TV services on connected TV's and set-top boxes via a single, web-based user interface. The solution enables content service providers to seamlessly deploy services such as over-the-top TV (OTT TV), VOD, catch-up TV, e-news and shopping, across multiple devices promoting customer engagement, content consumption and content protection.