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## **IP TAKES CENTER STAGE AT IBC**

### **Demos Show Complete IP Solutions For DVB Over IP & IP Over DVB - Along With Advances In Synchronization & Discovery For Second Screen Services**

**IBC, 11 - 15 September 2015, Amsterdam, Stand 1.D81**

**Amsterdam – 11 September, 2015** – At this year's IBC, DVB stand demonstrations will focus on the impressive suite of IP related DVB specifications covering the transport of DVB services over IP systems as well as the transport of IP content over DVB channels.

A demo utilizing the DVB MPEG-DASH Profile shows the OTT delivery of video services to a remote user highlighting the efficiency of the standard. The DVB MPEG-DASH Profile is the specified solution for the delivery of DVB content as OTT services over best effort IP systems. This Profile defines the delivery of DVB content via HTTP adaptive streaming and is a 100% subset of the MPEG-DASH standard. Depending on the condition of the network, the DASH client requests video segments with a lower or higher data rate from the DASH server - switching between the different segments occurs seamlessly. A satellite link is part of the IP delivery network and employs Generic Stream Encapsulation (GSE) to carry IP packets. GSE allows for the efficient transport of IP packets over DVB modulation systems so that the available satellite capacity may be shared with other IP flows.

In a separate demonstration, the use cases and functionalities of the new DVB-CSS (Companion Screens and Streams) standard are presented. The demo focuses on two of the relevant parts of the CSS specification, which are time synchronization and content discovery. Second Screen applications such as additional language, commentary channel and program related online information are shown on Apple and Android tablets, as well as a laptop. DVB-CSS supports a wide range of added services including: additional languages; additional subtitles; audio description for the visually impaired; additional audio or video channels, e.g., a second camera position; participation in voting and gaming events.

DVB-CSS and DVB MPEG- DASH will be referenced in the HbbTV v2.0 specification and the DVB Commercial Requirements have been developed in close cooperation with HbbTV members.

Another major DVB work item that is being addressed at IBC is DVB-UHDTV Phase 2 with the challenge of selecting the features for UHDTV delivery systems. The discussed topics

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could include: High Frame Rate - frame rates up to 120Hz; Wide Color Gamut; HDR (High Dynamic Range); Next Generation Audio. The ongoing discussions in DVB focus not only on technical parameters but also on how to phase the market introduction of the new features.

Visitors to the stand can get the latest information on the progress of Phase 2 in the DVB-UHDTV Commercial Module. They will also find a host of information available on the full family of DVB standards. Representatives and technology experts are on hand to answer queries and provide information on the implementation of the world's most successful set of technical standards for DTV. DVB's open, interoperable standards form the basis of services on every continent with well over a billion receivers shipped.

DVB would like to thank DVB Member companies and others who have generously contributed equipment and content to the demonstrations. They include: BBC, Dolby, Fraunhofer IIS, WORK Microwave and Sony.

The official IBC 2015 Conference Program includes a number of DVB related topics. On Friday, 11 September, the Paper Session "Video Downloading Over the Internet - Dynamic Adaptive Streaming Protocols" is chaired by DVB Executive Director, Peter Siebert.

### **About DVB**

Digital Video Broadcasting (DVB) is an industry-led consortium of over 200 broadcasters, manufacturers, network operators, software developers, regulators and others from around the world committed to designing open interoperable technical standards for the global delivery of digital media and broadcast services.

DVB standards cover all aspects of digital television from transmission through interfacing, conditional access and interactivity for digital video, audio and data.

DVB dominates the digital broadcasting environment with thousands of broadcast services around the world using DVB's standards. There are hundreds of manufacturers offering DVB compliant equipment. To date there are over a billion DVB receivers shipped worldwide.

Further information about DVB can be found at: [www.dvb.org](http://www.dvb.org), [www.dvbservices.com](http://www.dvbservices.com) and [www.dvbworld.org](http://www.dvbworld.org).

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