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## ***DVB at BCA***

### **Showcasing the World's Fastest Growing DTT Standard DVB-T2 Highlighted for Its Robustness & Flexibility**

**BroadcastAsia, 21 - 24 June 2011, Singapore, Stand 4F2-06**

**21 June 2011, Singapore** – DVB is highlighting the robustness and flexibility of DVB-T2, the world's fastest growing digital television standard, for the benefit of visitors to this year's BroadcastAsia. DVB technologies are also represented in the BroadcastAsia official conference with presentations by DVB Members and Executives.

A single DVB-T2 multiplex in an 8 MHz channel containing three Physical Layer Pipes (PLP) is being deployed for three different services: 3D and HD quality for rooftop antenna reception, SD quality for indoor antenna reception and mobile reception. The HD and SD programmes are being received by commercially available integrated DVB-T2 displays, as well as a DVB-T2 set-top box. The mobile transmission is being received by a DVB-T2 USB stick. The objective of the demonstration is to show the different bandwidths and robustness that can be achieved with Multiple PLPs in one DVB-T2 channel.

The PLP mechanism separately adjusts the robustness of each delivered service within one channel to meet the required reception conditions of reception and display devices. The range of built-in options allows DVB-T2 to serve efficiently different scenarios such as HD, SD, mobile reception, indoor antenna and rooftop antenna.

DVB-T2 supports the main frequency bandwidths of 6, 7 and 8 MHz, covering all possible broadcasting scenarios around the world, including 6 MHz countries such as the Philippines. To this end, DVB is transmitting 5 HD services in a DVB-T2 multiplex in a 6 MHz channel. The 6 MHz signal is generated by a DekTec modulator (DTU-215) and received by a DVB-T2 STB provided by Humax.

3D content for the demonstration is provided by The Walt Disney Company. HD and SD content as well as the Multiple PLP setup is provided by Media Broadcast. Video encoding is courtesy of Ateame. The transmissions are received by a Sony DVB-T2 IDTV, a Humax DVB-T2 set-top box (HD-Fox T2), and a PCTV Systems DVB-T2 USB stick (nanoStick T2). Rohde & Schwarz supplied the modulator (R&S SFU) and analyzer (R&S ETL SU 5217/3717) for the demonstration.

## **DVB at BCA**

DVB-T2 is the world's most advanced DTT system offering higher efficiency, robustness and flexibility than first generation DTT systems such as DVB-T and ISDB-T. It builds on the basis of DVB-T and adds new modulation, coding and error correction techniques to provide a 50% efficiency increase over any other DTT system in the world. DVB-T2 also provides excellent performance for mobile reception.

Since the first DVB-T2 services were launched in December 2009 in the UK, 2010 and early 2011 have seen services launched in Italy, Sweden and Finland. The total number of countries that have declared their intention to deploy the state-of-the-art second-generation digital terrestrial television (DTT) transmission system now stands at a remarkable 28. In the Asian region, India and Singapore have chosen DVB-T2 and tests have been carried out in Malaysia, Sri Lanka, and Thailand.

DVB is prominently featured in the official BroadcastAsia 2011 International Conference on Thursday, 23rd June in the "DVB Session: New Systems and Standards". Highlights of the session include: Update on DVB – T2 and other DVB Developments, Peter Siebert, DVB; Latest Business Model using DVB-T2 MultiPLP, Regis Le Roux, Enensys; DVB to Handheld, Gerard Faria, TeamCast; Building a DVB-T2 Broadcast Network, Per Steinar Hansen, T-VIPS; Using IP Over Satellite for Efficient, Flexible Broadcast Contribution and Distribution, Koen Willems, Newtec; Receiver Chipset Developments for DVB-T2, Laurent Le-Morvan, ST Microelectronics; Planning DVB-T2 - DTT Platforms, Holger Meinzer, Media Broadcast; Solutions for Digital Pay Television and Secured Content Distribution, Noureddine Hamdane, Viaccess; DVB-T2 Transmitter Implementation, Nils Ahrens, Rohde & Schwarz; DTTV Architecture Overview – Head End & Distribution, Kenelm Deen, Ericsson Television; and a report on the DVB-T2 Trial in Kuala Lumpur by DVB's Asia Representative John Bigeni.

The DVB stand will be attended with DVB representatives and technology experts available to answer queries and provide information on implementation of the world's fastest growing DTT standard.

### **About DVB**

Digital Video Broadcasting (DVB) is an industry-led consortium of over 220 broadcasters, manufacturers, network operators, software developers, regulatory bodies and others committed to designing global standards for the delivery of digital television and data services. DVB standards cover all aspects of digital television from transmission through interfacing, conditional access and interactivity for digital video, audio and data. The consortium came together in 1993 to create unity in the move towards global standardisation, interoperability and future proofing.

DVB dominates the digital broadcasting environment with thousands of broadcast services around the world using DVB's open standards. There are hundreds of manufacturers offering DVB compliant equipment. To date there are over half a billion DVB receivers shipped worldwide. DVB standards are also widely used for other non-broadcasting applications such as data on the move and high-bandwidth internet over the air. Further information about DVB can be found at: [www.dvb.org](http://www.dvb.org), [www.dvb-h.org](http://www.dvb-h.org), [www.mhp.org](http://www.mhp.org), [www.dvbservices.com](http://www.dvbservices.com) and [www.dvbworld.org](http://www.dvbworld.org).

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