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DVB-T2 at BCA

Highlighting the Robustness & Flexibility of the World's Fastest Growing DTT Standard.

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16 May 2011 – 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, Singapore has chosen DVB-T2 and tests have been carried out in Malaysia and Thailand.

At this year's BroadcastAsia, the DVB will be highlighting the robustness and flexibility of DVB-T2. A single DVB-T2 multiplex in an 8 MHz channel containing three Physical Layer Pipes (PLP) will be 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 will be received in parallel on 4 television screens through commercially available DVB-T2 IDTVs as well as DVB-T2 set-top boxes. Also a DVB-T2 USB receiver will be used to receive the DVB-T2 service.

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. For example, the wide range of parameters allows DVB-T2 to address different scenarios such as HD, SD, mobile reception, indoor antenna and rooftop antenna.

For the demonstrations, The Walt Disney Company will supply 3D content. The HD and SD content and the Multiple PLP setup will be provided by Media Broadcast and the signals will be received using Humax DVB-T2 set-top box (HD-Fox T2), and a PCTV Systems DVB-T2 USB receiver (nanoStick T2). Rohde & Schwarz will supply the modulator (R&S SFU) and analyzer (R&S ETL SU 5217/3717) for the demonstration.

In addition, DVB will present transmission of several video signals in a 6 MHz channel. The 6 MHz signal will be generated by a DekTec modulator (DTU-215) and be received by a DVB-T2 STB provided by Humax. This demonstration will show that DVB-T2 in addition to 8 MHz also supports other channel bandwidths.

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DVB-T2 is the world's most advanced DTT system offering higher efficiency, robustness and flexibility. The system is a much more efficient transmission system 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.

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 250 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, www.dvb-h.org, www.mhp.org, www.dvbservices.com and www.dvbworld.org.

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