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## **MILESTONE FOR DVB-C2 ACHIEVED**

### **World's First Live Transmission for DVB Second-Generation Cable Standard**

**06 May 2010** – The DVB Project is proud to announce a major milestone with the success of the first live transmission employing DVB-C2, the new second-generation baseline transmission system for digital television via cable networks. The significance of the live transmission demonstrates that DVB-C2 is now ready for implementation and will provide real opportunities for MSOs to introduce new tiers of HDTV, Video-on-Demand and interactive TV services.

The DVB-C2 live transmission was carried out on 22 April 2010 at Germany's Technische Universitaet Braunschweig.

DVB-C2 employs the latest modulation and coding techniques to enable highly efficient use of cable networks. It offers a range of modes and options that can be optimised for the different network characteristics and the requirements of the different services planned for delivery to cable customers. It offers greater than 30% higher spectrum efficiency under the same conditions as today's DVB-C deployments. After analogue switch-off the cable networks can be optimised for digital transmission. This will result in a capacity increase of about 60% for DVB-C2 as compared to DVB-C.

Prof. Dr.-Ing. Ulrich H. Reimers, Institut fuer Nachrichtentechnik, Technische Universitaet Braunschweig and Chairman, DVB Technical Module commenting on the significance of the first live DVB-C2 broadcast said, "DVB-C2 is the third of the second generation DVB broadcast standards – after DVB-S2 and DVB-T2. It is a radically new system which includes a huge number of innovations. The performance of DVB-C2 is so excellent that it is hardly possible to devise an even better standard in the future. Up until now, our knowledge about the features and performance of DVB-C2 was based on simulations. I am extremely pleased that my team has now concluded our development of a real DVB-C2 chain. This chain demonstrates that DVB-C2 can be implemented practically and it gave us the opportunity to prove that the predictions for the system's performance were correct".

## **Milestone For DVB-C2 Achieved**

Peter Siebert, Executive Director, DVB Project commented, "The motivation for the development of DVB-C2 was to increase the data rate by taking advantage of technological breakthroughs made since the introduction of the highly successful DVB-C. Alignment with the other second-generation standards, DVB-S2 and DVB-T2, was also part of the objective".

The DVB-C2 standard is published by ETSI (European Telecommunications Standards Institute) as EN 300 429 V1.2.1 "Framing structure, channel coding and modulation for cable systems". Further information on DVB-C2 can be found on the DVB website along with the DVB BlueBook A138 and the DVB-C2 Implementation Guidelines (<http://www.dvb.org/technology/standards/index.xml>).

DVB acknowledges the efforts of Institut fuer Nachrichtentechnik, Technische Universitaet Braunschweig and the European research project ReDeSign in reaching this milestone.

## **Background**

### **The DVB Project**

The Digital Video Broadcasting Project (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 deployed 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) and [www.dvbworld.org](http://www.dvbworld.org).

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