COMING SOON - DVB-S2X FOR THE HOME

S2X To Provide UHDTV and High Speed Broadband Services.

09 - 13 September 2016, Amsterdam, Stand 1.D81

Geneva – 09 September, 2016 – At this year's IBC, DVB will highlight the progress being made by the industry to bring the groundbreaking power of the DVB-S2X transmission system for consumer use in the home.

When DVB-S2X was launched in 2014, it promised improved performance and features for the core applications of DVB-S2, including DTH, contribution, VSAT and DSNG. A critical step for the introduction of DVB-S2X for DTH is the availability of cost efficient DVB-S2X receiver chipsets and consumer products. These chipsets and consumer products are now in the prototype phase and can be expected on the market soon. This will allow operators to use DVB-S2X for DTH; most probably for the delivery of UHD services.

When it comes to DTH, the most relevant DVB-S2X features are channel bonding and finer granularity of modulation and FEC options combined with sharper roll-offs. Channel bonding of up to three satellite channels will support higher aggregate data rates and allow for additional statistical multiplexing gain for high data rate services such as UHD. In the two years since the introduction of DVB-S2X, the technology has been successfully deployed for professional applications such as video contribution and data transmission.

Another important use case for DVB-S2X is satellite broadband access. It is expected that the next generation of High Throughput Satellite (HTS) will deliver sufficient capacity to provide cost efficient broadband access even to consumer type data devices. DVB-S2X was specifically designed to cover this use case as well.

A demonstration on the DVB Stand features a UHD TV service transmitted over a typical 36MHz channel using a Newtec DVB-S2X modulator connected to a Broadcom DVB-S2X prototype set-top box and displayed on a Panasonic TV. This is a typical DTH situation where audio and video is encapsulated in an MPEG Transport Stream (TS). The DVB-S2X video content (UHD HEVC) is provided courtesy of SES.

The demo will also feature the same video signal treated as a data signal and encapsulated in the Generic Streaming Encapsulation (GSE) Format. The resulting DVB-S2X signal is delivered to a consumer type data modem based on the Satixfy S2X receiver chipset. The

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TS over Ethernet output signal is converted to The TS over Ethernet output signal is converted to an input signal for a Panasonic TV. In the background, a Newtec DVB-S2X modulator is connected to a measurement receiver presenting the constellation diagram in a picture-in-picture window on the second TV.

"The excellent performance of DVB-S2X makes the DVB standard a top system not only in theory, but also in practice. Laboratory tests carried out on DVB-S2X implementations verify the real hardware performance. With this knowledge in hand, the industry has been working at full speed on the development of the necessary consumer technology, which will further enable the efficient delivery of UHD and satellite broadband services to the consumer," said Peter Siebert, Executive Director, DVB.

About DVB

Digital Video Broadcasting (DVB) is an industry-led consortium of 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, www.dvbservices.com and www.dvbworld.org.

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