ENENSYS IBC 2016 PREVIEW DOCUMENT

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ENENSYS Networks is a leading designer and manufacturer of digital TV transmission systems. Its products sit between encoding/multiplexing and transmission, facilitating signal distribution over a wide variety of networks. ENENSYS specialises in DVB-T/T2/ISDB-T infrastructure.

Terrestrial Broadcasting

ENENSYS is launching new product **DTTCaster** at IBC 2016. This is designed to provide highly cost-effective retransmission of DTT networks at regional/local transmitter sites where IP (microwave, fibre and so on) or satellite connectivity isn't possible or is cost-prohibitive. In terms of the former, this is usually down to either geography or cost or a combination of the two. C-band satellite reception at local transmitter sites isn't always possible either as the dishes are very large and there's surrounding infrastructure required too. Of course with satellite there are also capacity costs to consider.

DTTCaster allows reception of the network content using a simple antenna then re-generates that content on another frequency. The content of course remains exactly the same and is SFN-compliant. This provides low-cost, high-quality retransmission of a network. DTTCaster units are housed in ENENSYS's HDc chassis with a maximum of six DTTCaster units in 1U enabling the reception of 24 RF signals.

•DVB-T/T2/ISDB-T/Tb rebroadcasting for DTT retransmission sites or cable headends
•Up to four RF signals from a single DTT antenna
•DVB-T2 SFN rebroadcasting

Targeted Content Insertion

Enensys will be presenting **AdsEdge**. AdsEdge addresses the problem of cost-effective regional content insertion in DTT and cable networks. It supports the 'splicing' of file-based content, such as advertising spots, local news and regional weather forecasts, at the final stage of signal distribution – the transmitter site in DTT's case; local cable headends for redistribution in others. It's single frequency network-compatible for DTT, and combines the Ads Server and Splicer in a single unit, reducing cost and complexity. AdsEdge is based on industry standard SCTE signalling enabling integration with existing systems.

Advanced Switches and IP Transport

For the first time at IBC, ENENSYS will present its recently launched IPGuardV2. This is a transparent IP switch that provides network and equipment redundancy. It works across standards and formats and is vital in maintaining service. It benefits from dedicated features and switching criteria for TS (DVB-T, ATSC), BTS (ISDB-T) and T2-MI (DVB-T2).

IPGuardV2 provides smart and automatic redundancy for all IP-based appliances and networks and is designed for any customer that needs to secure IP stream transport or generation. For example, used in DTT headend it allows seamless single frequency network and T2-MI switching, preventing any loss of synchronisation between transmitters in a network and thus, avoiding a complete TV blackout. It is scalable - from one to six modules in 1 RU with daisy chaining options – and capable of managing 396 IP Streams in 1RU.

Also on show:

rEWS - ENENSYS will also highlight its rEWS – Regional Early Warning System – solution as well as **OneBeam.** This system provides the ability to use a standard satellite DTH network to also distribute services to DVB-T/T2 or ISDB-T transmitter sites.