

Press Release

11 December 2020

AVT realizes NDR DAB+ payout for 16 regions

Nuremberg - 11 December 2020 - With the installation of NDR's new DAB+ payout system supplied by AVT, listeners will be able to receive news and weather information from their respective regions via DAB+ with a coverage that was previously only possible via FM. The DAB+ payout, which was previously divided into four regions, was replaced by a completely new redundant DAB+ Ensemble multiplexer system for 16 regions.

"The large number of different programs posed a particular challenge, as each of the 16 regional multiplexes can generate eight to nine independent DAB+ programs." says Wolfgang Peters, Sales Director of the Germany-based company AVT. "Of course, this also requires a corresponding provision of audio signals and associated data for the total of 129 programs. In addition, there are also program-independent regional data services for the 16 regions."

The exclusively IP-based payout was realized with the new **MAGIC DABMUX plus** Ensemble Multiplexer with integrated DAB+ encoders licensed by *FhG*. The system-internal redundancy switching ensures seamless switching of the multiplex signal, which is available as EDI and ETI/E1 signal.

The audio feed to the multiplexers including the audio monitoring is done via AES67 streams, which are connected to Prodigy audio converters from *DirectOut*. The regionally categorized slideshows are supplied by the PAD payout system of the company *4=1*, Dynamic Label+, traffic announcements and TPEG traffic information is generated by the TIC system of the company *GEWI*. Linkage sets are triggered directly from the *CGI* automation software *dira!*

The monitoring of the entire system is realized via the EMBER+ signalling of the multiplexers and a visualization using the *LAWO* VisTool.

As management software, the new browser-based AVT **DAB System Manager** is used which enables the management of all 32 Ensemble multiplexers.

"This allows, for example, a comfortable firmware update of all systems within 10 minutes and the redundancy view shows the status of the entire system at a glance". Wolfgang Peters continues.

"AVT has implemented a solution that is optimally customized to the needs of NDR, which perfectly integrates all requirements of our workflow and the various interfaces of other system components. Despite the challenges caused by COVID-19, AVT succeeded in completing the project on schedule." says Thorsten Geselle, the responsible project manager at NDR.

About AVT Audio Video Technologies GmbH

Founded in 1996, AVT Audio Video Technologies GmbH is a manufacturer of professional Telephone Hybrid Systems, Audio Codecs and DAB Headends. In the international DAB market, AVT is one of the leading suppliers of DAB system components.

About Norddeutscher Rundfunk

Norddeutscher Rundfunk (NDR) based in Hamburg is a public service broadcaster of the ARD for the Free and Hanseatic City of Hamburg and the federal countries of Mecklenburg-Western Pomerania, Lower Saxony and Schleswig-Holstein.

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Further information about the MAGIC DABMUX plus Multiplexer:

<https://www.avt-nbg.de/en/products/magic-dabmux-plus>