



HanseNet integrates new optical signal transmission system

Equipped for the future

HanseNet has equipped its head end station, responsible for transmitting signals to the web farm, with the latest technology in order to become the first provider to offer IPTV on the German market. The company banks on the transmission system DEV 7000 from DEV Systemtechnik to ensure the reliability and signal quality of its Alice homeTV service.

With Alice homeTV, HanseNet is the first provider of TV via DSL on the German market. The company's IPTV services are currently only available in Greater Hamburg and Lübeck, but HanseNet plans to expand its services to further metropolitan areas in early 2007. The integration of the new systems is thus a worthwhile investment for the company. This strategic decision also generates significant consumer benefits: Thanks to Alice homeTV, users can now watch more TV channels and they also have access to video on demand at falling prices – an attractive concept indeed.



Company headquarter of HanseNet Telekommunikation GmbH, City Nord, Hamburg © Palladium Photodesign, Köln, Germany / Photo: Oliver Schuh

Lossless signal transmission

HanseNet faced two major challenges with regard to IPTV: first, the transmission of signals between antenna array and head end with minimum signal loss. It was therefore necessary to find a solution less prone to signal loss over large transmission distances than standard coaxial cables.

Second, the system was not only to provide perfect signal transmission quality, but also high operational reliability: the system had to be designed redundantly in order to ensure continuous signal transmission. In addition, the transmission solution was to be equipped with an integrated monitoring system.

Stable and reliable

DEV 7000 proved to be the perfect solution. The project manager of Alice homeTV, Marko Rister, says: "We are very pleased with the system. It is absolutely stable and reliable." Such positive feedback is not surprising, given that DEV 7000 used by HanseNet transmits the signals via optical fibres. DEV 7000 modulates the incoming RF signals onto a laser and transmits them to the web farm where they are converted into the original signals without signal loss.

But that's not all: the transmission via optical fibres provides another crucial benefit: the combination of optical fibres and DEV 7000 ensures the galvanic isolation between the antennas and the web farm infrastructures.

Redundancy and worthwhile investments

The unique architecture of DEV 7000 facilitated HanseNet's decision to opt for the integration. Thanks to the integrated construction, it possible to retrofit the required redundancies of the optical transmission systems as needed. Furthermore, the system is equipped with two power units, i.e. the system comprises a redundant power supply.

For HanseNet, the integration of the

system pays off now and in the future. Today's optical transmission systems already meet the signal transmission demands of the future. DEV 7000 is equipped to transmit high-quality video signals, such as HDTV (which will be broadcast standard in a few years), without signal loss. In short, with the integration of DEV 7000, HanseNet has made an investment in the future.

A comprehensive quality solution

DEV 7000 is not only the perfect solution for the requirements set by HanseNet, it offers a whole lot more: the system provides an above-average performance due to the minimisation of modules and the additive wiring. This reduces the complexity of the system, while at the same time increasing system reliability and enhancing signal fidelity.

Reliability is paramount to DEV. The system integrates a differentiated alarm and management function for both analogue and optical components. The system does not only inform the operator via Simple Network Management Protocol (SNMP) about transmission problems, but also about the cause of it. That way, it is possible to solve the problem in no time.

All in all a convincing concept reckons Marko Rister who is not only impressed by the technical benefits but also by the strong service mentality of DEV Systemtechnik: "There are very few providers on the market who offer such a problem-oriented service with no red tape and who are at your disposal when the going gets really hot."

For further information, please visit:
www.dev-systemtechnik.com
www.alice-dsl.de



Origin of photo material: APS GmbH

Contact

DEV Systemtechnik GmbH & Co. KG
Grüner Weg 4a
D-61169 Friedberg
Tel.: +49 (0) 6031 18999-0
Fax: +49 (0) 6031 18999-15
E-Mail: info@dev-systemtechnik.com

General Manager: Jörg Schmidt