



RTL

HD Video from Studio to Playout in the Bandwidth Previously Required for SD

Introduction

RTL TVI is the top TV channel in French-speaking Belgium, reaching 3.9 million or 90 per cent of all Belgian viewers via cable. RTL TVI offers a strong schedule of family-oriented information, entertainment and fiction genres. The channel regularly tops the audience ratings with favorite programs.

The Situation

RTL needed to transmit content from its studios in Brussels to the RTL Group playout centre in Luxembourg with a high quality HD transport solution. Extreme levels of reliability were a key requirement for RTL to ensure that they could deliver the high quality of service they needed for their customers.

Challenge

RTL wanted minimal disruption by retaining their existing infrastructure and wanted to avoid the cascading problems associated with DCT coding and decoding of MPEG.

Nevion were challenged with delivering a robust and efficient solution that also offered the highest quality video possible.

“As quality was such an important factor, we made the decision to use NeviON JPEG 2000 wavelet compression to avoid the cascading problems associated with the DCT (Discrete Cosine Transform) coding and decoding of MPEG”

Vincent Jeumont,
Head of Systems and Projects at
RTL TVI

The Result

Nevion enabled RTL Belgium to transport HD video from studio to playout in the bandwidth previously required for SD.

The robust link went live in September 2010, using a highly redundant configuration of Nevion's TVG430 HD-SDI to JPEG 2000 Gateways and Nevion TNS541 Seamless TS Monitoring Switches. The RTL installation uses two independent ASI Transport Streams, with uninterrupted operation ensured through the use of Nevion' TNS541 Seamless TS Monitoring switch.

The TNS541 switches are installed in the RTL network after the JPEG 2000 Gateways to secure redundancy at all levels. In the event of an issue with one link, the redundant combination of TVG430 units, TNS541 switches and dual links, ensure that signals are seamlessly interchanged, guaranteeing the highest possible quality of service.

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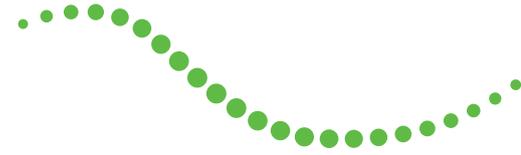
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Why Nevion

The Nevion TVG430 is an efficient, affordable and scalable solution for professional quality video contribution and offered RTL a compact, cost-effective solution.

The TVG430 utilizes JPEG 2000 compression to transmit HDTV (and SD) signals over Gigabit Ethernet links in real-time at bitrates in the 50Mbps to 200Mbps range. The gateway can be configured as either an encoder or decoder.

The TNS541 also provided RTL with some key benefits including the safeguarding of the delivery of high quality video content by providing 24/7 monitoring, advanced analysis and redundancy switching and the capacity to monitor both incoming MPEG-2 transport streams for health status.

RTL was confident in Nevion solutions as the pioneer of JPEG 2000 and understood that Nevion would not compromise on quality.

Nevion HD transport system offered RTL flexibility and durability whilst ensuring uninterrupted operation.

As always, Nevion considers each customer and every project unique.

We assess and design before we deploy, ensuring that the solutions provided best meet immediate needs, long-term goals, and your overall environment. From there, we're always a phone call away.

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