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The MVTP-4K (Modular Video Transfer Platform) technology developed by CESNET was used to demonstrate the application of high-resolution video transmissions for remote collaboration at the CineGrid 2011 workshop in San Diego. The first demonstration was the real-time transmission of a 4K (4096×2160) video recording over more than 10,000 kilometres. The MVTP-4K technology allows simultaneous transmission of up to eight high-resolution (HD/2K) video channels together with multi-channel sound over the Internet. Using parallel channels, it is possible to transmit up to two 4K signals in each direction at the same time. The processing delay added by the transmitting and receiving device to the network delay, which is given by the speed of light, depends on required buffering to compensate network jitter. In a high-quality network, it can be less than 1 ms.

Low-latency transmissions enable real-time remote collaboration in video post-production. Prototypes of MVTP-4K devices are being prepared for a market launch in cooperation with industrial partners.

The content transmitted was Coppa di Sicilia, a short film provided by UPP exclusively for the CineGrid 2011 workshop.

Read the complete article at: <http://www.ces.net/doc/press/2011/pr111229.html>
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