

SIMOS Control Centre Manages Surveillance Videos and TV Signals with Teracue Video-Networking Products

Odelzhausen, Germany (November 15, 2006) - TERACUE products for the transmission and management of network-based video signals are being employed at the 'Leitstelle für Sicherheit und Mobilität Stuttgart' SIMOS (Stuttgart Control Centre for Safety and Mobility) (www.feuerwehr-stuttgart.de). Within the new, comprehensive control centre for fire fighting, rescue, traffic direction and crisis management groups work together in an innovative infrastructure with the latest technical equipment.

Deployed are standard IPTV and streaming products from Teracue that have been integrated into the overall system. Analogue video signals from internal and external surveillance cameras are made available on the network as live streams over real-time encoders of the ENC-100™ series. Video signals from Stuttgart Tramways AG and the Police Headquarters are included over more encoders. 27 TV stations are transmitted over the network with DVB-S videogateways that deliver original, native DVB-quality and full television resolution.

By using the 'multicast' transmission method for the video streams, the network works as a 'virtual' video router. Using set-top boxes, the live signals are made available on a large video wall, projectors and monitors in the conference rooms. PC's and portable laptops obtain access to the videos over a stream player software application.

Two ICUE streaming servers record important TV information and offer it as VOD (Video On-Demand) to all PC players and set-top boxes that are connected to the network. Also, the servers take over the access control. With rights queries, video stations and users only obtain access to critical video content if corresponding rights are defined in the system. The streaming servers are set up with redundancy for system security.

The 49 set-top boxes can be switched and configured with touch panels in order to allow easy signal routing and quick video access. The touch panels run KST-RemNet, a mediacontrol software which is based on standard Crestron product components. The installation of the entire media equipment and programming of the KST-RemNet was done by the partner company KST-Moschkau GmbH.

Currently, the signal distribution is based on MPEG-2 SD streams. By employing products such as the ICUE servers, ICUE PC players and s-box 7900HD set-top boxes, which additionally allow support of MPEG-2 HD and H.264 SD/HD formats, the system is future-proof and expandable.

Leitstelle für Sicherheit und Mobilität Stuttgart - SIMOS: At SIMOS, four control centres work under one roof without their operative independence being compromised: the Integrated Control Centre of the Stuttgart Fire Brigade and German Red Cross; the Integrated Traffic Control Centre of the Office for Public Order, Civil Engineering Office, Stuttgart Tramways AG and Stuttgart Police Headquarters; and the Management and Administration Staff of the Provincial Capital for Extraordinary Events and Catastrophes.