



TP-Link Offered TV Skyline Reliable Data Transfer and Failure Safety for live broadcasting

▼ CUSTOMER PROFILE

Company Name: TV Skyline

Industry: Broadcasting Station

Location: Germany

▼ BACKGROUND

TV Skyline is an innovative television and broadcasting service provider equipped with the latest and highest-quality broadcast technology. For over 20 years, TV Skyline has provided customers with clear access to the best of broadcast media, including

sports, music, and entertainment TV Skyline offers broadcasting vans and specialized cameras for broadcasting stations. The Ü8 UHD program provides significantly enhanced audience experiences, improving TV Skyline's leading position in Germany's broadcasting industry. The UHD, however, has also placed additional demands on the system data processing devices.

“Based on the pleasant cooperation with TP-Link before, we'd love to choose TP-Link as our partner in the Ü8 UHD network construction. We know that TP-Link is professional in this area and they also offer great technical support.” TV Skyline

▼ CHALLENGE

In order to produce high-speed performance and stable broadcasting, the Ü8 UHD from TV Skyline needs a powerful solution capable of handling massive amounts of data from various live devices and video resources for transfer to the broadcasting stations.

The Ü8 UHD broadcasting van is about 16.5 meters long and is equipped with 30 working stations with the latest technology. The data from various working stations also require organization according to their purpose use and destination.



The interior of the Ü8 broadcasting van. Switches by TP-Link included.(Source: TV Skyline)

- **Fast and Reliable Video Data Transfer**

With the high demand of 30 workstations streaming in HD, a data transmission with high bandwidth is needed to achieve fail-proof and reliable video broadcast.

- **Different Working Group**

The 30 Ü8 workstations produce a high range of HD video resources for different channels and demands. Depending on the function demand, message streams must then be transmitted through different VLANs

- **Massive Data**

All HD video data should be not only processed by the different VLANs but then converged into a central

station. This means the core switches need the capacity to process and transfer massive data streams under high pressure without failing.

▼ SOLUTION

TP-Link offers a comprehensive and high-performance network solution with profession technical support. This solution includes two main switches – T3700G-28TQ, 28-Port Gigabit Stackable L3 Managed Switch, Seven TL-SG5428, Four TL-SG3216, Two TL-SG2542 and one TL-SG3424P. The T3700G-28TQ kit was developed to provide the brain power needed to run scalable and robust networks with a single core switch.

- **Reliable Data Transmission**

The two main L3 switches are connected over a 'trunk connection' to ensure data throughput between both switches is increased without needing to increase the number of cables needed. Moreover, this connection proves to be fail-safe during data transfer. The four Gigabit SFP slots and the four 10 Gigabit SFP-slots are included to enable the two T3700G-28TQ to provide more speed and reliability.



Full data coverage within two main switches. (Source: TV Skyline)

- VLANs for Different Group

All video data is transferred to the access layer switches, then divided into different VLANs. The VLAN data is used in various working groups and converges in the two main switches. The data is then routed in order to direct the message stream within the network accordingly. The divided VLANs prevent influence among different grouped data transmissions, thus creating a more secure network.

The TL-SG5428 is used for devices within the picture and sound range, offering various Layer2 management functions. The L2 switches provide high-performance networks for working groups as needed. Some other L2 switches such as TL-SG3216/TL-SG2452 feature several LAN posts in order to high-speed data transmission. Other features include comprehensive L2 management, enterprise QoS, and safety strategies.



TL-SG5428 in use within picture and sound range in the broadcasting van.

- Physical Stacking for High Performance & Redundancy

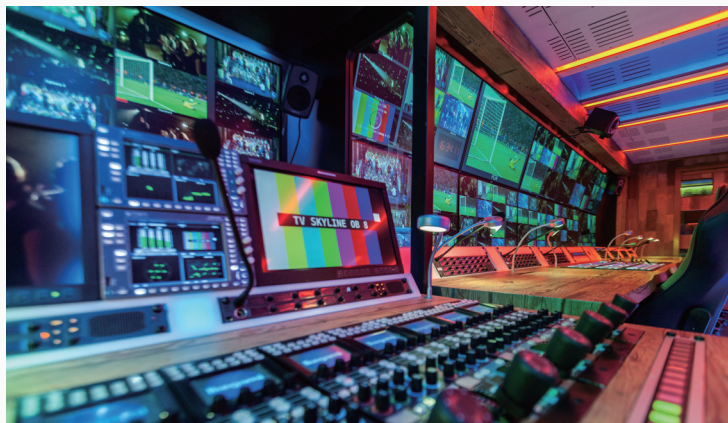
With true physical stacking technology, the two T3700G-28TQ are stacked with a single IP address. When switches are stacked, they act as one switch with only one IP address, thus making management more convenient. In the event of a switch crashing or failing, others can still operate normally in order to guarantee complete and uninterrupted data transmission in the whole network. This provides enhanced scalability, simple management, and increased redundancy for high-density deployment. It also supports efficient network expansion for easy adaptability.



T3700G-28TQ by TP-Link: A robust switch for robust networks. (Source: TP-Link)

- Convincing Technical Support

The crucial element for TV Skyline's collaboration with TP-Link was the dependable technical support provided by the manufacturer. As always, TP-Link offered excellent and professional technical support while not only constructing the network structure but also throughout the whole testing and configuration process



▼ RESULTS

Since its launch in September 2015, the Ü8 UHD from TV Skyline has proven to be an international success. Likewise, TP-Link has earned a trusted relationship with customers including TV Line through previous collaboration and support. TP-Link has assisted Ü8 UHD to build a stable data center network, ensuring the best security and efficient solution available for Ü8 UHD. TP-Link's solution met the needs of high bandwidth for HD video editing and producing. The most reliable advantage of installing switches guarantees real-time playback and live news broadcasting. Now, TV Skyline's Ü8 UHD will be able to expand more quickly and effectively with the assistance of the newly deployed network.

“TP-Link gave excellent technical support regarding the configuration of V-LANs and LACP, i.e. cable bundling. It is especially great that we have a personal contact person for all questions regarding the technology.” Laurent Schiltz, technical manager at TV Skyline