

CUSTOMER SUCCESS STORY

CUSTOMER: SUBWAY LINE IN CHINA
INDUSTRY: TRANSPORTATION
REGION: CHINA
PRODUCT: iES28TG-L3 & iES52TG

THE CHALLENGE

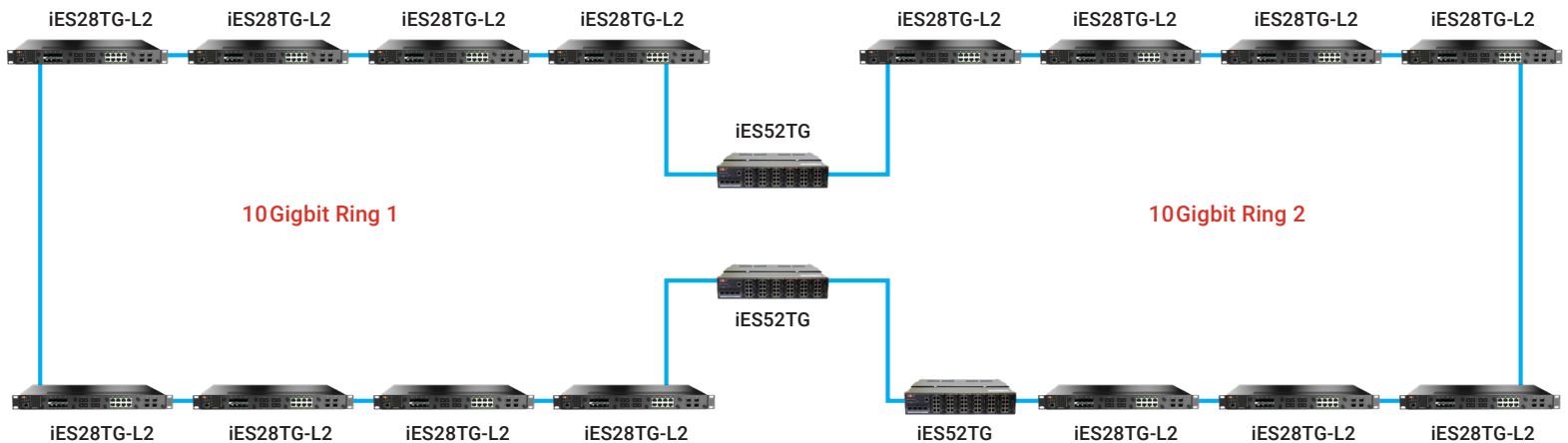
The customer required a solution to provide surveillance for 1500 CCTV cameras, a police radio communication system, and access control systems for a major subway line in China. The subway line is 32km long with 19 stations, one control center, and one depot. Out of the 19 stations, eight are underground stations, and 11 are ground stations. The communications network needed to be scalable, have a high-speed backbone, and be resistant to shock and vibration.

THE SOLUTION

The design included building a backbone network up to 10gb's in speed for the police applications within the subway line. This consisted of two iS5Com iES52TG's installed in the control center and depot. The iES52TG's were used for connecting and aggregating two ring networks capable of 10gb speeds running RSTP with IEEE802.1D-2004 implementation achieving 5ms/hop recovery performance. Each of the two ring networks consisted of iES28TG-L3 switches, which have been specifically designed for critical infrastructures in harsh environments.

To monitor the network, the iS5Com iMSS network management software was implemented for easy device discovery, configuration, and network monitoring.

Figure 1 - Network Design



BENEFITS

- **100% redundant** – all police applications are connected via a redundant link to the control center and depot in a ring network.
- **100% visibility** to police application system through the iMSS network management software.
- **100% availability** to CCTV surveillance cameras and their police communication system.
- **100% reliability** meets or exceeds the standards set out in IEC 61850-3 and IEEE 1613 for the industrial communication equipment.
- **Secure remote access** to the iES28TG-L3 and iES52TG devices. Configuration is facilitated through SSH and HTTPS.
- **100% scalability** – The iES52TG and the iES28TG-L3 exceeds the customers high-speed requirement of 10gb.

ABOUT iS5 COMMUNICATIONS INC.

iS5 Communications Inc. (“iS5Com”) is a global provider of integrated services and solutions, and manufacturer of intelligent Industrial Ethernet products. Our products are designed to meet the stringent demand requirements of utility sub-stations, roadside transportation, rail, and industrial applications. iS5Com’s services and products are key enablers of advanced technology implementation such as the Smart Grid, Intelligent Transportation Systems, Intelligent Oil Field, and Internet of Things. All products have the ability to transmit data efficiently without the loss of any packets under harsh environments and EMI conditions.



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