THALES

Asia-Pacific Government Agency Chooses Thales Network Encryptors to Protect Real-Time CCTV Data Transmissions for Border Control and Monitoring

The Organization

An Asia-Pacific government agency, responsible for providing integrated control and monitoring of their border security, has implemented an extensive closed-circuit television (CCTV) network to monitor a number of major transport hubs.

The Business Need

Due to very high data volumes, sensitive video information captured and transmitted, and risks of interception between camera and remote monitoring stations, it is imperative that the video streams' security and integrity be encrypted. Network performance is also crucial to the system's effectiveness to meet the real-time monitoring requirement.

The Benefits

The agency was able to experience the benefits that only the industry leading Thales Network Encryptor product family is known for. The end-to-end Network Encrypton solutions by Thales provide:

- Maximum network performance. Thales' high speed encryption technology introduces zero protocol overhead so that maximum bandwidth is available for data – up to 50% more efficient than competing technologies. Thales Network Encryptors provide the fastest network encryption available, operating at true line speed with no impact on latency, ensuring the high quality of real-time applications such as VoIP and video. High availability features support architectures with over 99.99% uptime.

- Easy deployment. Adding the Thales Network Encryptors to the existing network was effortless due to the "bump in the wire" design aspects of the appliances. There's no need for network reconfiguration, so Thales Network Encryptors can be set up in minutes. The unique features of the encryptors enable them to be seamlessly overlaid onto any network topology.

- Top rated security. Thales Network Encryptors use the strongest publicly available cryptographic algorithms developed by NIST (the Advanced Encryption Standard AES-256). The appliances are crypto-agile, using field programmable gate array (FPGA) technology that allows them to be easily upgraded in the field to keep pace with the evolution of cryptographic advancements. The tamperproof design appliances are certified to FIPS 140-2 Level 3 and Common Criteria, providing a top rated "security focused" encryption solution for sensitive data.

Video
Audio (bi-directional)
Ethernet
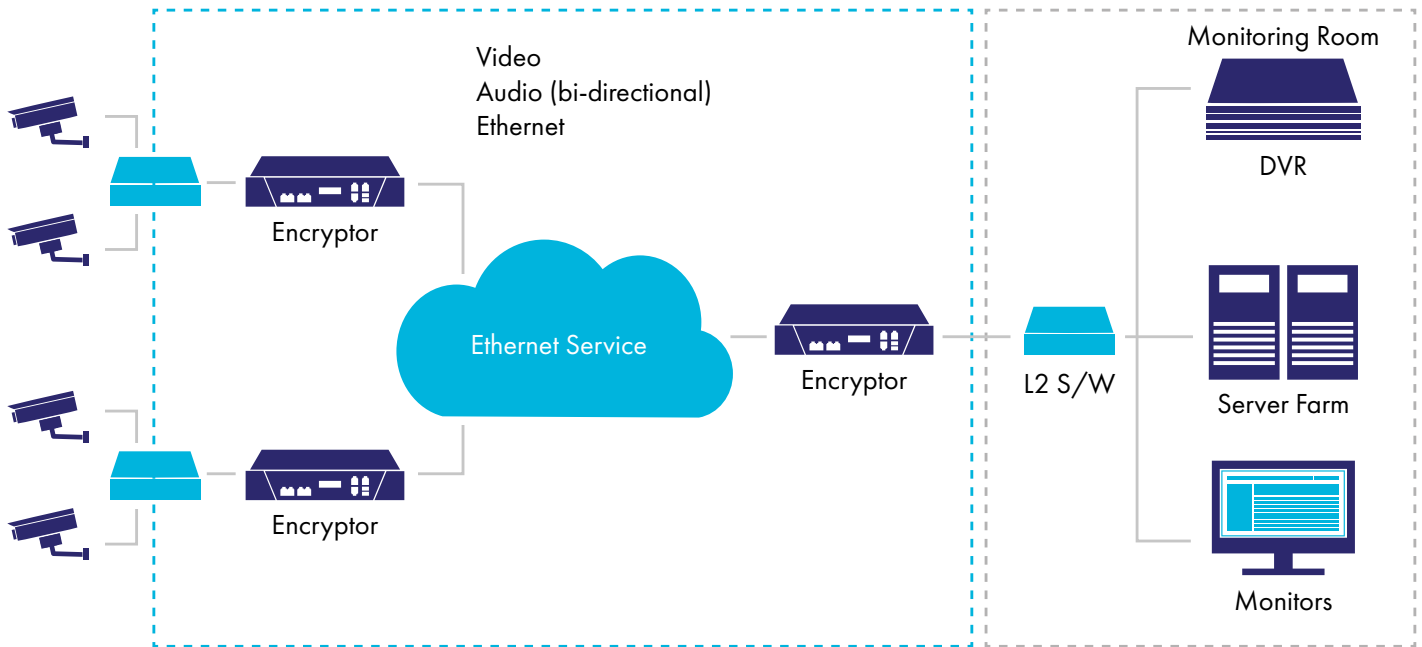
The Solution

Because they are layer independent (protecting data regardless if at Layer 2, Layer 3, or Layer 4), Thales Network Encryptors offer network operators more configuration options using TCP/IP routing for securing critical data. The agency tested and determined encrypting at Layer 2 was best for their network performance.

The Thales Network Encryptors were installed at a major transport hub and coupled to the central monitoring station and a number of CCTV cameras. The Thales Network Encryptors caused no decrease in bandwidth, and did not degrade the video quality in any way. Based on the outcome of this real-time test scenario, the agency purchased a number of Thales Network Encryptors for progressive roll-out throughout their extensive networks at major transport hubs.

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

Challenge:
- The agency needed to encrypt its large volumes of latency sensitive CCTV video data, ensuring real-time monitoring while still maintaining network performance and simplicity.

Solution:
- By encrypting the CCTV video using Thales Network Encryptors, the agency was able to ensure that the movement of people, goods and conveyances through its checkpoints is legitimate and lawful.

Benefit:
- The agency can now ensure that all of their CCTV data is encrypted with Network Encryptors from Thales, resulting in real-time video data without delay or distortion.