

CASE STUDY

Sulaymaniyah and Halabja Cities

Secure Logiq revolutionises surveillance in Sulaymaniyah, implementing front-line failover and resilient storage solutions.

Project Information

End User: Northern Iraq City Surveillance
Region: EMEA – Iraq
Customer Vertical: City Surveillance
System Integrator: Secure Gate Limited

Video Management Solution: Genetec
Camera Manufacturer: AXIS
Products: Management Servers, Failover Servers, Quorum Server, Archiver Servers, Workstations

BACKGROUND

Situated in the eastern reaches of the Kurdistan Region, Iraq, Sulaymaniyah, also referred to as Slemani and renowned as the “City of Culture,” holds a strategic position near the Iran-Iraq border. The city is encircled by formidable geological formations—the Azmer Range, Goyija Range and the Qaiwan Range to the northeast, Baranan Mountain to the south, and the Tasluja Hills to the west.

While its landscape is picturesque, Sulaymaniyah experiences a semi-arid climate characterised by scorching dry summers and brisk wet winters. Amidst its cultural richness, the city faces security challenges inherent to its geopolitical location. The proximity to a volatile border zone necessitates stringent security measures to safeguard its inhabitants, infrastructure and cultural heritage against potential threats and instability.

As part of a flagship project to improve use of city surveillance cameras across two cities and the integration of a new video management system (VMS) and a complete ANPR solution spanning the region their chosen system integrator Secure Gate Limited were looking for a hardware partner to provide a full range of equipment for both cities as well as an infallible disaster recovery solution in the event things took a turn for the worse.

The Challenge

Integrating a new video management system (VMS) and a complete automatic number plate recognition (ANPR) solution across two cities presented a significant challenge for this project. Coordinating the deployment of these technologies while ensuring seamless interoperability with existing infrastructure required meticulous planning and execution.



Managing over 4,000 city surveillance cameras spread across two cities amplified the scale and scope of the project. Ensuring consistent performance, reliability and coverage across such a vast network demanded robust hardware solutions capable of handling the workload without compromising on efficiency or quality.



The need for an infallible disaster recovery solution underscored the criticality of ensuring continuous operation and data integrity in the face of unforeseen events. Secure Gate Limited was needed to anticipate and mitigate potential disruptions, such as system failures or cyber threats, to uphold the security and functionality of the surveillance infrastructure.

The Solution

Secure Logiq played a pivotal role in the intricate design process, collaborating closely with the design departments of two leading Video Management System (VMS) suppliers to overcome seemingly insurmountable challenges:

- **Intrinsic Failover Solutions**

Secure Logiq proposed robust failover solutions to ensure continuous operation across multiple dual redundant sites and two cities. This involved pushing the boundaries of failover capabilities to achieve high levels of reliability and uptime.

- **High-Performance Hardware Configuration**

Secure Logiq designed a hardware solution featuring cluster configurations of multi-node servers, each equipped with 196 cores of premium Intel processing power, compacted into just 2U of rack space. This configuration enabled concurrent data processing and storage, minimising the risk of critical video data loss during disasters.

- **Resilient Storage Infrastructure**

Secure Logiq deployed the largest Logiqal SAN solution ever in the electronic security arena. This resilient storage infrastructure ensures that every event can be viewed both live and in playback mode, even in the event of three out of four storage facilities becoming in operational.

Leading the Charge

With strong ties in the Middle East, Secure Logiq brings valuable insights and understanding of the unique security challenges prevalent in the region, making them well-equipped to address the specific needs of cities like Sulaymaniyah. Their collaborative approach, demonstrated by close engagement with leading VMS suppliers, ensured that solutions are tailored to meet the intricate demands of integrating new technologies into existing infrastructure seamlessly. High-performance hardware configurations, essential for maintaining uninterrupted surveillance operations in high-risk environments, make Secure Logiq a trusted partner for city surveillance initiatives like this.

THE RESULTS

“The sheer scale of the project spanning across two cities, thousands of cameras and multiple disaster recovery sites is a feat of IT engineering that we personally have never seen before in this industry. The specialist optimised design service offered by Secure Logiq really is a work of technical expertise”

– AR, CEO



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