

CASE STUDY

Qatar University

Using custom processing servers and a single 5U SAN storage, Secure Logiq optimised Qatar University's security infrastructure.



Project Information

End User: Qatar University

Region: EMEA – UAE – Qatar

Customer Vertical: Education Campuses

System Integrator: Black Arrow Security Systems & Services

Distributor: Duxfortec

Video Management Solution: Avigilon

Camera Manufacturer: Various

Products: Management Servers SAN Storage

BACKGROUND

Qatar University (QU) stands as Qatar's premier institution of higher education, embodying a legacy of academic and research excellence. With a steadfast commitment to aligning its colleges, programs, and courses with international standards, QU has earned accreditation from leading global accrediting bodies.

Hosting eleven colleges and offering a diverse array of academic programs tailored to meet societal needs, QU serves as a cornerstone of education in Qatar. The university's dedication to research is evident through its state-of-the-art Research Complex and 18 research centres of excellence, driving collaborative projects worldwide.

Through strategic partnerships with industry, government, academia, and civil society, QU is poised to lead economic and social development initiatives in Qatar and beyond. Given its esteemed status and pivotal role in shaping Qatar's future, ensuring the security and safety of Qatar University's campus is paramount.

The Challenge

In collaboration with their system integrator, Black Arrow Security Systems & Services, Qatar University sought a hardware partner to furnish a comprehensive array of equipment for various security applications throughout the campus.



The University grappled with the task of finding a hardware partner capable of managing the considerable volume of footage generated by several hundred high-definition cameras. This footage needed to be stored securely for a 90-day retention period, necessitating over a petabyte of storage capacity.



With the large storage capacity required to accommodate the extensive footage from several hundred high-definition cameras, Qatar University faced a notable challenge in maintaining the reliability of its security system. The risk of hard drive failures loomed large, threatening the integrity of stored data and potentially compromising campus safety and security.

The Solution

To address Qatar University's pressing storage and processing challenges, Secure Logiq deployed a multifaceted strategy:

- **Devised Custom Processing Servers with Upgraded Components**

Secure Logiq designed processing servers tailored to the university's specific requirements - equipped with advanced components, enhancing processing power and efficiency to handle the immense volume of data generated by the high-definition cameras.

- **Engineered a Single 5U Customized SAN Storage Solution**

Recognising the need for efficient storage, Secure Logiq engineered a 5U SAN solution. This configuration not only consolidated the university's storage infrastructure but also provided total scalability and reliability.

- **Implemented Integrated Failover Mechanisms and Dual Redundant Controllers**

Understanding the critical nature of uninterrupted security operations, Secure Logiq went a step further to fortify the infrastructure's resilience. Integrated failover mechanisms on the processing servers and dual redundant controllers on the SAN storage system provided redundancy and fault tolerance.

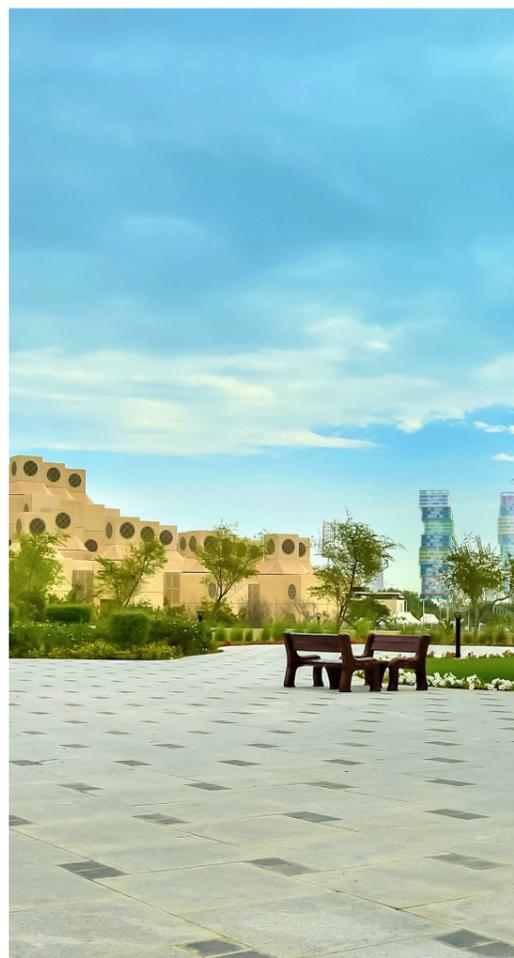
Advanced Data Protection

Acknowledging the inevitability of hard drive failures in systems of such scale, Secure Logiq additionally introduced the Logiqal SAN's ADAPT feature. This ground-breaking alternative to RAID significantly slashed system rebuild times, ensuring minimal vulnerability during maintenance or unexpected hardware issues.

THE RESULTS

"We were thoroughly impressed by Secure Logiq's approach. They meticulously assessed our pain points, network limitations, and the imperative to conserve rack space and power. Their out-of-the-box thinking culminated in a truly remarkable optimized solution. None of the other proposals came close to Secure Logiq's design, leaving the end user absolutely delighted."

– **Manager of Black Arrow Security Systems & Services.**





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