

CASE STUDY – EDUCATION INDUSTRY

ENABLING UNIFIED FIRE SYSTEM INTEGRATION ACROSS A LARGE MULTI-NATIONAL ACADEMIC ENVIRONMENT

Challenge

International university environments require consistent fire system monitoring across diverse building types, including academic, residential, and shared facilities.

In this case, the institution operated as a multinational academic organisation serving students from across the SAARC region and beyond. With fire systems distributed across a large master-planned campus, the challenge was to implement a unified monitoring solution capable of consolidating alarm data into a single operational interface.



Environment Overview

The campus comprised a large, purpose-built academic estate spanning approximately 100 acres. It included faculty buildings, student accommodation, residential apartments, sports facilities, and shared community infrastructure.

As an international university environment, the campus supports a diverse student population drawn from multiple countries, creating a complex operational setting with varied usage patterns across academic and residential zones.

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Solution

Cortech Developments, in partnership with Spectrum Safety Solutions Private Limited, delivered Datalog 5 software, integrated with Fike fire alarm systems via a dedicated interface driver.

The platform provided a centralised monitoring layer capable of consolidating fire alarm events across all connected buildings. The solution delivered:

- A single interface for campus-wide fire alarm monitoring
- Integration of distributed Fike fire alarm panels into a unified system
- Real-time visibility of alarm events across all building types
- Standardised alarm interpretation across academic and residential areas
- A scalable framework supporting future campus development

Collaboration and Implementation

Spectrum Safety Solutions provided regional technical expertise throughout the deployment, supporting configuration, integration, and commissioning activities. Their responsibilities included:

- Coordination of system deployment across a large campus environment
- On-site configuration and validation support
- Engagement with multiple operational stakeholders
- Ensuring alignment between technical design and operational requirements

Results and Benefits

The integrated system delivered improved operational oversight across the campus estate. Key outcomes included:

- Unified visibility of fire alarm activity across all buildings
- Improved consistency in operational response
- Reduced reliance on multiple independent monitoring systems
- Enhanced facilities management efficiency
- A scalable platform for ongoing campus expansion

