Heathrow Airport Operation Centre (APOC)
Fire Alarm Management System (FAMS)

SIEMENS

Segment: Transportation
End user: Heathrow Airport
System integrator: Firstco
Realization date: October 2014

Requirements:
- Central fire alarm management system for Heathrow Campus
- Interfacing with 9 separate fire alarm systems (more planned)
- Very challenging delivery program – 5 months

Solution:
- 72,000 devices, 116,000 alarms, 160,000 I/O
- Over 1,100 graphics pages
- Redundant pair of WinCC OA servers
- 7 WinCC OA clients in control room: 6 operators and video wall

Benefits:
- Consistent, intuitive user interface across all fire systems / airport terminals
- Very scalable solution requiring only two servers (other manufacturers would require 6 to 8 more)
- Extremely quick graphics page switching and alarm annunciation – vital for time critical system such as fire alarm response
- Automated engineering and testing tools developed to enable rapid production of SCADA database & graphics pages, and testing of huge number of I/O states and alarms within required project timescales

APOC is the new control room for Heathrow Airport, centralizing processes that previously took place at many different locations across the campus. As part of APOC, the Fire Alarm Systems across the Heathrow estate needed to be centralized, by means of a new Fire Alarm Management System (FAMS).

London Heathrow is the world's busiest airport by international passenger traffic.

Firstco is a leading independent technical consultant and systems integrator, specializing in communications and control systems in the transportation sector.

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