

## Jet Engineering Technical Support (JETS)

Established in 2004, JETS is a technical support organisation serving the business aviation and regional airline sectors. It specialises in the maintenance and repair of Hawker Series, Dornier 328 and Bombardier Challenger aircraft.



### Project background

There aren't many places where security standards are more stringent than at international airports. When JETS decided to relocate to new premises at Bournemouth Airport, security and safety were two of the first issues its General Manager needed to tackle.

JETS' new facility consists of two aircraft hangars, office space and storage facilities. With 30 staff on site, and a steady stream of visitors and contractors, JETS needed a robust fire and security system to bring the premises up to airport safety standards.

JETS turned to Chris Lewis Fire & Security to advise on the best protection for the facility.

Martin Gibbons, General Manager at JETS commented, "We were working to very short timescales and Chris Lewis Fire & Security's Bournemouth branch worked hard to make everything happen very quickly, from being available at extremely short notice for our initial meeting, to getting proposals and quotes to us." He added, "We understood airport security requirements, but didn't know what systems we needed to achieve them. Chris Lewis Fire & Security's engineers are clearly very knowledgeable and were able to design a fire and security system that met our requirements exactly."

### COMMERCIAL SECTOR

Scope of works

- Fire system
- Intruder alarm
- Access control
- Maintenance contract

*The service that we have received has been first rate. Chris Lewis Fire & Security has really taken the time to understand our requirements and limitations, and has delivered in every aspect of the work. I now see them as trusted advisors who I won't hesitate to contact when the time comes to extend or enhance the systems we now have in place.*

*Martin Gibbons*  
General Manager  
JETS

Preventing unauthorised access onto the airport's runway was of paramount importance. Because both hangers have open airside access, JETS needed a read in/read out access control system on its internal and external doors. It also wanted to prevent unauthorised access to the buildings when unoccupied, be able to centrally monitor and control access across the site and be given early and clear warning in the event of a fire.



## The solution

JETS needed to make absolutely certain that unauthorised personnel could not gain access to its hangers, and from there onto the airport's runway. A Paxton Net2 access control system was installed to closely monitor and control access across the site. The system uses small electronic fobs that are programmed to permit authorised access to specific doors.

Having carried out a fire risk assessment, Chris Lewis Fire & Security's engineers designed and installed a new fire system incorporating Apollo fire detectors and an Advanced Electronics panel.

The fire system design needed to take into consideration both the aircraft hangers' size and their proneness to vibrate with the engine noise from planes being serviced inside and those using nearby runways. While optical beam detectors were the best option for the scale of the buildings, in order to prevent vibrations from causing false alarms, the detectors needed to be cushion-mounted onto the steel framework of the hangers.

The installation of the fire system required close coordination with other refurbishment work on the premises. Martin Gibbons explained, "The facility needed a major refit including new floors in the hangers. Chris Lewis' team of engineers had a very tight window in which they could bring in lifts to get up to the ceiling and mount the sensors. To their credit they managed the whole process and it all just happened seamlessly without me having to step in or worry about it."

Apollo smoke and heat detectors and manual call points were installed in the office and storage areas, and in line with the

recommendations of the fire risk assessment, 34 fire extinguishers providing water, CO<sub>2</sub>, foam and powder suppression, were also supplied.

The fire alarm system was integrated with the access control system to ensure that if a fire alarm is activated, locked doors will automatically open to allow personnel a speedy evacuation from the building.

To ensure the facility is fully secured when unoccupied, a Texecom Premier intruder alarm was installed.

## Results

The Paxton Net 2 access control system is internet-based (IP) and therefore does not require hardwire connections. This will enable JETS to easily extend the system to include new doors and/or buildings in the future.

Control and management of access rights is delivered via user friendly Windows-based software. Amongst other functions, the system administrators can amend access rights and restrict entry to certain areas if necessary, track the use of lost or stolen fobs, control times when doors are locked, issue new or temporary access fobs, as well as run reports on user activity. The ability to run reports is particularly useful in the event of a fire as it provides JETS with an invaluable log of who is inside each building.

Martin Gibbons added, "Linking the fire and access control system is extremely useful. We're already looking into acquiring an additional building at the airport, so having an IP system means we can easily expand in the future."

Established in Oxford in 1993, Chris Lewis Fire & Security designs, installs and maintains a complete range of fire and security systems. To find out how we can help protect your organisation, visit [www.chrislewisfs.co.uk](http://www.chrislewisfs.co.uk)