

ST PANCRAS INTERNATIONAL

Access control and intruder detection

St Pancras International has been transformed into a modern, world-class train terminal for Eurostar. As one of Europe's largest and busiest passenger interchanges, safety and security is a top priority for its owners, High Speed 1.

Honeywell Building Solutions was tasked with providing an access control and intruder detection system that would provide maximum security across the site.

Case study





The Customer

St Pancras International is the central London home of Eurostar in the UK. An £800m redevelopment of St Pancras in 2007 marked a significant milestone in British transport history with the opening of High Speed 1 to continental Europe. In addition to Eurostar, Southeastern high-speed domestic services also run on High Speed 1 and the station continues to provide domestic rail services to the South and the Midlands. It also remains connected to the London Underground network.

As part of the renovation, the iconic Victorian station has undergone major architectural restoration and modernisation. The station now includes exciting places to eat, drink and shop as well as travel. With such amenities, an increasing number of people visit St Pancras International with no intention of getting on a train. With growing income figures and a diverse events calendar, up to 50 million people visit St Pancras International every year.

The Challenge

In addition to 15 platforms, St Pancras International has an upper concourse with restaurants, a street level with high-street retail stores and an international departure area with primary retail outlets. There are also offices accommodating Network Rail and train operator staff.

With a constant stream of domestic and international visitors and staff arriving and departing from the different parts of the station every day of the year, security is a challenging but fundamental priority. St Pancras International sought a new, state-of-the-art access control and intruder detection system that could be effectively integrated across the whole site to ensure maximum security is upheld at all times. Honeywell Building Solutions was tasked with ensuring that the station's exacting security requirements were met and delivered on time.

The Solution

The solution that Honeywell designed, installed and commissioned is its largest access control configuration in Europe. Utilising Honeywell's state-of-the-art Temaline access control system, the system covers 250 doors, which are located throughout the premises including those in high-security areas such as international border control. Access privileges are granted to approximately 3,000 cardholders including management, office staff and engineers.

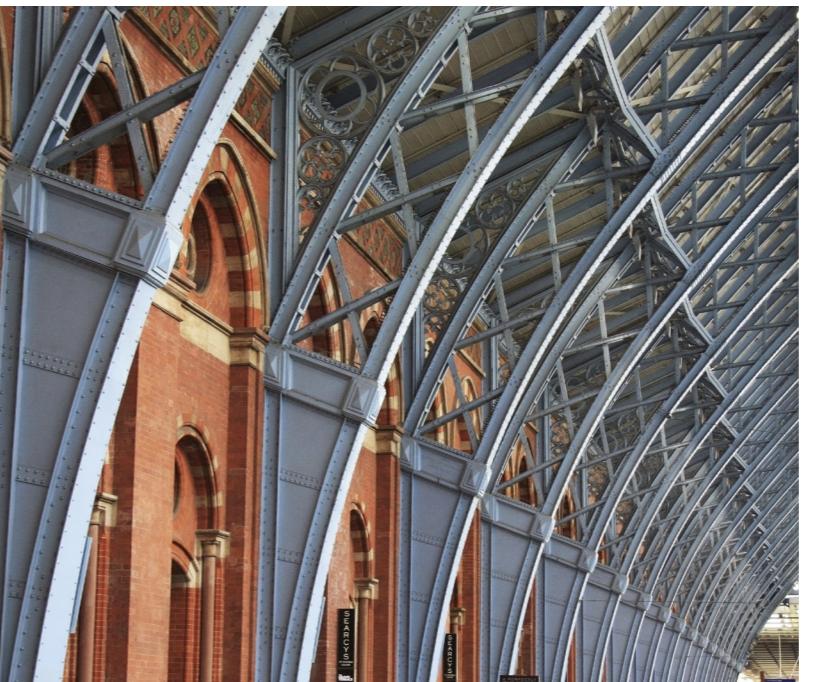
A Temaline cardholder management database facilitates effective time and attendance monitoring and supervision of all the authorised persons. TemaServer controllers manage the peripheral database containing all the information essential to the autonomy of the field devices such as the card readers. Peer-to-peer network communication enables the exchange of this data for real-time information status.

This data is managed via an integrated platform – the Honeywell Enterprise Building Integrator (EBI), which has a graphic user interface for the station's security operators. This is displayed across 16 PC workstations, which are distributed throughout the building.

In addition, Honeywell also installed an intruder alarm system, which monitors the entire site for unwarranted intrusion. This consists of over 250 motion sensors across doorways and in open areas to detect unauthorised ingress during times when these areas are closed to the public.

There are also 57 panic buttons located within the Eurostar ticket office and ground floor departure areas. In the event that a member of staff encounters an emergency situation such as verbal or physical abuse, activating a panic button will enable them to raise the alarm instantly.

When an alarm event occurs, a graphical display immediately shows the operators where it occurred, what priority it should be given and what procedures to follow. An event summary function automatically logs all alarms, acknowledgements and return-to-normal conditions.



The Business Benefit

Temaline's peer-to-peer communication capability is consistent and reliable. The controllers continuously talk to each other, which keeps the security net fully available and all the operators fully alert. In the unlikely event that a controller should fail, redundant controllers are on standby to automatically take control of the field devices and manage them without loss of functionality or degradation of the station's security level.

The EBI is based on the use of the Microsoft Windows operating platform. This means that the software is easy-to-use, robust and offers flexibility to meet changing needs or accommodate any future expansion at the station. The system also serves as the centre for integration with other elements of the station's security package including CCTV.

With the installation successfully complete, Honeywell now maintains the systems to ensure peak performance and reliability. As a modern world-class terminal for Eurostar, St Pancras International is a gateway to the UK for thousands of international visitors. Honeywell has provided its owners High Speed 1, with a resilient access control and intruder detection system that reduces the threat to security and continuously promotes the safety of passengers and staff.

In 2009, St Pancras International fulfilled strict security criteria to gain national accreditation as London's safest station from the Department of Transport and the British Transport Police.

“The access control system that Honeywell has designed and installed has provided us with the assurance that the station is safeguarded against unwanted intrusion and that the safety and security of our visitors and staff is maintained at all times.”

*Ben Ruse
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