



London Underground Security Management System Overview



The Victorian visionaries who developed the world's first underground train system more than 150 years ago could never have envisaged the huge success story known as "The Tube". Today, London Underground comprises over 255 stations, with nearly 1 billion passenger journeys every year made by more than 19 million passengers. Equally, when creating their engineering vision, they could never have anticipated the need for enhanced security in 21st-century London to protect both passengers and infrastructure.

Tube facts:

- **Stations owned and managed: 255**
- **Passengers carried on the Tube each year: 19 million**
- **LU staff: 12,560**
- **Length of network: 408km/253 miles**

Today, the need to protect both passengers and the vital infrastructure that provides the transport artery for the people and businesses of London has resulted in a wide range of security initiatives and upgrades.

The relationship between NetAccess and London Underground was established in the mid 1990s with the deployment of the NetAccess Dataaccess IMS product to link many of the various access control systems together and manage data.

Today, NetAccess products are in use in over 200 different locations, supporting the security requirements for a variety of divisions of London Underground.

Current systems include:

- Telephone Exchange Access Control
- Server Room Access Control
- Alarm Monitoring of Plant
- Alarm Monitoring Software for Central Station
- Duress System
- Safe Monitoring System



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Telephone Exchanges and Server Rooms

There are more than 70 separate telephone exchange sites managed by London Underground Telephone Services division, which support the complete communications infrastructure for London Underground. Security is, therefore, of paramount importance.

The system specification was for the provision of a complete I/P-based access control and alarm-management system using proximity RFID card technology.

NA^{i-ax} security management server and clients, together with intelligent controllers, were installed on the existing LAN/WAN infrastructure, utilizing hubs and switches for complete connectivity between the *i-ax* server and event controllers distributed throughout London.

The infrastructure incorporates a network of category 5 and fibre cabling, and the associated hardware needed to support the existing infrastructure and new security system. This enables the system to be easily extended from almost any point around the campus from additional event controllers to doors, reader points, alarm inputs and more.

The EVCII Event controllers are placed in the field and are easily identifiable by their unique mac address numbers. Each controller, in turn, has been commissioned using the existing card readers, locks, associated door furniture and copper wire previously utilised for the original access control system.

The system allows London Underground to monitor and administer all staff and contractor activities, control the security of individual areas and monitor and manage alarm conditions within all of the controlled zones and buildings.

Alarm Management System

The requirement for a powerful and integrated alarm-management system—given the size and volume of the different risks and threats that London Underground must plan and manage—was key to the specification.

NetAccess Software was developed to address many of the issues relating to managing alarms, with paramount consideration given to the needs of a modern organisation.

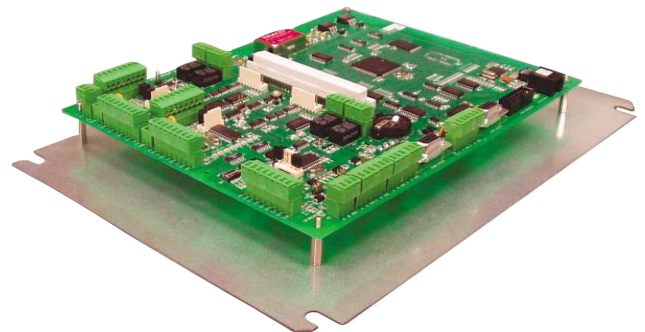
- Ease of use
- Clear annunciation
- Flexible action criteria & programming options
- Event & disaster management
- Auto reporting
- Statistics

Control Centre

Within London Underground, thousands of alarms are managed at a number of locations by a wide variety of people with different skill levels. The NetAccess software provides multi-client and multi-user functionality, and a range of segregation options to ensure only authorised personnel are able to carry out specified actions.

Disaster Recovery

A prime requirement was the provision of integral disaster recovery and the facility to allow a seamless switch over in the event of a specific area or location being out of service.



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netaccess Software Limited

Unit B, Bedford Business Centre, Mile Road, Bedford MK42 9TW

Telephone +44 (0) 1234 219127 Fax +44 (0) 1234 266175

www.netaccess-software.com

Redefining Security Management : access control • visitor management • event management • computer access control • property tracking
time & attendance • alarm management • people tracking • user profiling • guard tour • cctv control • photo id

The details shown are believed to be correct at time of printing, however netaccess is an evolving product and the right to change its specifications from those shown in this brochure without notification is reserved.