



BQT SOLUTIONS CASE STUDY

IMPROVING LOCAL GOVERNMENT SECURITY - HSM

Objectives

A government department needed to add an additional layer of security to their exterior doors to ensure access could not be gained using unauthorised access to the communication lines behind the readers.

Challenges

Due to their line of work, this additional layer of security was necessary. This department already had a secure access control system however after several unsuccessful security breaches, the department began looking for a solution to encrypt access data between the readers and panel without upgrading their entire system.

Solutions

The HSM (High Security Module) proved to be an ideal solution for the client. Readers were provided with 128-bit AES encrypted communication, and paired with the HSM. The HSM were wired directly to the access control panel and converts the data into Wiegand that the access control panel requires, and securely installed inside the locked access control cabinet.

PRODUCT BENEFITS

Benefit One

Encrypted communication travels between the BQT Smart Reader and the HSM, ensuring a secure information path that cannot be compromised, whether the reader is wall enclosed or on a remote site such as an access gate.

Benefit Two

The connection between a BQT Smart Reader and an HSM is via RS485 communication, thus allowing the cable run to be up to 1.2km (4,000 ft) in length, providing greater flexibility and reducing installation costs.

Benefit Three

The HSM is only one of many output module configurations BQT Solutions offer. Others include custom data conversions between different communication formats, or providing functionality as a single door controller for stand-alone reader applications.

BQT Solutions is a specialist in the development, manufacture and supply of high quality, high security card and biometric readers, electromechanical locks and related electronic security products. Providing high security solutions to verticals including Airports, Healthcare, Corrections, Education, and Government for over 35 years.

***Innovating today for a more
secure tomorrow***