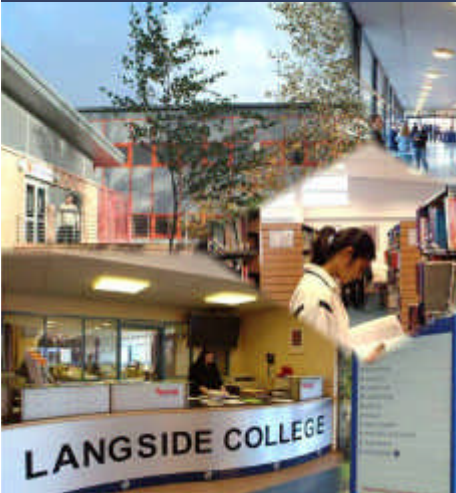


# CASE STUDY WIRELESS SECURITY

## LANGSIDE COLLEGE



**“Fortress was straight forward to plan and implement.”**

*Phil McGurk,  
MST/ICT Section*

**“The level of access control offered was a deciding factor.”**

*Bill Heaney,  
Network Administrator*

### Why Fortress?

- **Stringent Security & Management**
- **Proven Performance**
- **Investment Protection**
- **Simple Implementation**
- **Transparent User Experience**

**E**ducational institutions face ever increasing classroom and student demand for ubiquitous network access on campuses. Few institutions want to incur the expense or disruption to students and professors required to wire older buildings for traditional wired networks. Wireless networks provide a cost-efficient solution for current access demands with room to expand. However, wireless networks create new security challenges for information technology managers and administrators.

#### Secure Access throughout the Campus

Langside College in Glasgow, Scotland, enrolls over 10,000 students on 4 main campuses and 80 community-based locations. For over four years, Langside have used wireless technology to meet their growing computing needs and plan continued expansion of the wireless coverage on their campuses.

#### Innovative Tool: Classroom-in-a-box

*“One successful program that Langside provide is an innovative learning tool called **Class-In-a-Box**; an IT lab consisting of 20 wireless enabled laptop PCs and printer contained in a mobile charging unit which can be deployed in classrooms where no IT lab is available. Langside currently provide eight Class-in-a-Box systems to assist with learning.”*

Having tried weaker and more cumbersome security solutions such as WEP and MAC filtering, Langside have decided their expansion must include high assurance security that ensures that their network is secure from use by unauthorised clients and from denial of service attacks, enforces their access control policy, and offers the flexibility and ease of maintenance required by their changing needs and growing network.

Langside understand that the students in IT classes such as Cisco CCNA courses could easily crack weaker security solutions. A strong security solution is, therefore, needed to protect from both internal and external attacks. Access control is also needed so that if a laptop were lost, stolen, or otherwise compromised, it could be denied access to the network.

“The solution must support older wireless equipment, such as access points and be compatible with barcode scanners planned for a new asset control system. With the access points used at the college constantly changing and an aversion to buying expensive, “fat” access points (APs), Langside needed a solution that would work with any vendor’s APs and network interface cards (NICs). Furthermore, the different departments of the College purchase their own wireless equipment, so the College IT department must implement security that works with all of them.

### LANGSIDE'S REQUIREMENTS

- *Easy to install and manage*
- *High assurance security*
- *Centrally managed access control*
- *Compatible with existing wireless equipment*
- *Vendor-agnostic implementation*

### SOLUTION

- *Fortress Wireless Security Gateways AF7500, AF2100*
- *Fortress Access Control Server (ACS)*
- *Fortress Secure Clients*

### BENEFIT

- *Simple and fast implementation*
- *Proven strength of security*
- *Low total cost of ownership*
- *Flexible solution*
- *Protects the data, network and device*
- *Supports all existing and future wireless vendors, equipment and technology*
- *Complete WLAN security solution providing privacy, authentication and access control*

## Elwers

Peter McPartland  
Head of Business Development  
Elwers  
Seddon Place  
Stanley  
Skelmersdale  
Lancashire  
WN8 8EB

Switchboard +44 1695 555444  
peter.mcpartland@elwers.co.uk

### Director of Sales — EMEA

Steve Rogers  
Tel +44 (0)7790 902225  
srogers@fortresstech.com

### Contact us at: CORPORATE HEADQUARTERS

Fortress Technologies, Inc.  
4023 Tampa Road, Suite 2000  
Oldsmar, FL 34677

### Sr. Dir. Worldwide Channel Sales

Bill Wall  
Tel +1 813 262 6822  
bwall@fortresstech.com

For more information,  
contact us at +1.813.288.7388

Visit [www.fortresstech.com](http://www.fortresstech.com)  
for more information.

### Flexible, Strong Security

Langside considered adapting IPsec, a well-known solution developed for wired security, but decided that a true wireless solution better met their needs. Options such as 802.1x, LEAP and PEAP were deemed too time-consuming to implement and would present interoperability issues. Other solutions considered failed to deliver the mix of strong security and ease of use that Langside required.

Learning about Fortress from a university-published white paper recommending the Fortress solution, Langside found that Fortress met its current and future requirements.

### Experience Matters

The Fortress product solution has been implemented in over 10,000 wireless networks in the most demanding, high-profile commercial and government applications. Fortress secure mission critical systems ranging from supply chain management to point of patient care across healthcare, financial, hospitality, manufacturing and energy industries.

The Fortress product solution enables enterprises with strategic investments in wireless technologies to immediately tighten the integrity and privacy of their infrastructure. This is made possible through Fortress' innovative technology advances such as Three Factor Authentication which protects the enterprise at the network, device and user levels.

Privacy, authentication and access control are integrated into an automated solution for maximum security and efficiency.

**Wireless Security Gateway** — provides perimeter security by bridging encrypted wireless communications to the wired LAN or remotely between point-to-point LAN connections. The Gateway is a full feature security appliance that scales for various architectures.



**Secure Client** — provides drivers for securing a wide range of mobile devices including bar scanners, handhelds, laptops and integrated wireless devices. The Secure Client supports the widest variety of operation systems including Windows®, Windows® CE, Linux, Pocket PC, Palm and DOS.



**Access Control Server** — enables administration of user and device access policies and integrates with back-end corporate policy systems such as RADIUS, NT Domain, Active Directory, LDAP, and RSA SecurID.

The Fortress product solution is represented by a global, diverse network of authorized distributors, value-added resellers and system integrators.

© 2005 Fortress Technologies, Inc. All rights reserved.



**FORTRESSTECHNOLOGIES™**

*Absolute Security for Intelligent Networking*