



THE ADDRESS

Woodford Green, Essex

THE REQUIREMENTS

An initial controlled and small implementation of wireless access covering key classroom areas to facilitate the school's use of two laptop trolleys, each with about 16 laptops, for teaching purposes. The project also required the robustness to be able to grow as the school's IT needs grew and access was required for staff and additional student access.

THE TECHNOLOGY

- A2400-48 Mobility Controller
- 9 AP61 Wireless Access Points
- Second phase: 32 AP61 Wireless Access Points

THE BENEFITS

- Students can use the internet safely, protected from harmful or obscene websites
- Fit and forget – wi-fi solution alerts staff when it needs attention
- As your needs grow, the future-proofed system grows with you

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Customer Overview



Trinity Catholic High School sits on the fringe of Epping Forest in the London Borough of Redbridge. It is a voluntary aided 11 - 18 mixed comprehensive school with about 1700 pupils, based on two sites half a mile apart. Years 7 - 9 are on the Lower Site while Years 10 - 14 occupy the Upper Site in Mornington Road. The school is maintained by the London Borough of Redbridge but is a Catholic school under the Diocese of Brentwood. It was formed in 1976 by the amalgamation of St Paul's Catholic Secondary School (now the Lower Site) and Holy Family Convent School (now the Upper Site).

Business Situation

Trinity Catholic High School decided to start with an initial controlled and small implementation of wireless access covering key classroom areas to facilitate the school's use of two laptop trolleys, each with about 16 laptops, for teaching purposes. The project also required the robustness to be able to grow as the school's IT needs grew and access was required for staff and additional student access.

The school decided to provide access for trusted laptops managed by the school's IT department,

which determined what software and security packages were installed on the machines.

Due to the school being based on two distinct physical sites – the Upper and Lower Sites – connected by a third party managed wide area network connection, and the relatively large number of buildings in close proximity to each other at the Upper Site, the implementation needed to be carefully managed and configured to optimise the wireless traffic to ensure best use of the legacy wired network infrastructure.

REACT's Solution

The initial implementation by React Technologies centred around an Aruba A2400-48 Mobility Controller and a dozen Aruba AP61 Access Points, using 802.11g technology, and covering the core classroom areas. Security systems were established to ensure that only the school's managed and trusted laptops were able to access the network and that students could not use these to access areas of the network that did not apply to their studies.

Due to the success of the initial phase, the school extended its implementation, rolling out access points to the lower site and controlling them using the controller already in use on the uppersite. This has meant the wireless infrastructure now covers many more classrooms and provides access for staff using trusted and managed laptops.

Part of this expansion involves reviewing and optimising the wired network design and traffic patterns to ensure it provides the best possible platform to ensure the increasingly important wireless traffic can operate at optimum conditions, providing the fastest possible access for the staff and students.

