



THE ADDRESS

Stratton St Margaret, Swindon

THE REQUIREMENTS

- Support high density of users, such as classrooms full of students
- Support for future implementations and expansion, such as VOIP telephony systems
- Customisable access controls to provide users with different levels of network access

THE TECHNOLOGY

- Aruba 6000 Controller
- M3 supervisor card
- 4 Aruba Gigabit Ethernet SFP
- 80 AP125 a/b/g/n

THE BENEFITS

- Significant speed benefits derived from new technology
- Supports large numbers of users
- System grows with the school's needs
- Network repairs its wi-fi coverage if there is a problem

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Customer Overview



One of the Swindon's most successful comprehensives, Kingsdown School became a Technology College in 2003, enabling learning to progress using 21st century technologies. It is a single-site mixed comprehensive school for more than 1270 students between 11 and 16.

This large specialist technology school draws learners from the communities on the outskirts of Swindon, including Upper Stratton, Stratton St Margaret, Lower Stratton and South Marston.

Kingsdown is proud of the wide range of cultural, sporting and extracurricular activities it offers in addition to the strong academic focus. Over 80% of students go into full-time further education with only 5% of students going into jobs with no training. A further 7% of students went into jobs with training in 2005.

In 2007 62% of Kingsdown students achieved 5 A* to C grades, above the national average. It has a specially resourced provision for pupils with autism, the Supported Learning Centre - Special Resource Centre.

Business Situation

Kingsdown School were looking for a site-wide solution that enabled them to make use of the range of advantages offered by the recent move to using laptops for classroom teaching and activities. The proposed solution had to be able to accommodate this density of traffic. The school also required a future-proofed infrastructure that would enable

it to grow as the school's use and requirement expanded.

It needed to be secure and segregate the guests, students and the staff with separate policies that allowed for different levels of authentication.

REACT's Solution

Kingsdown took a bold step in choosing to press ahead with an innovative wireless 802.11n solution, opting for the very real speed benefits this new technology offers and REACT Technologies' proven expertise to successfully deliver it.

Following Kingsdown's initial request for a wireless a/b/g solution, they decided on the 802.11n option to offer the best performance to the large number of users online at the same time in confined areas. Commonly, this would involve a classroom full of students each using a laptop to complete study assignments.

This option also guarantees that the system is ready to be extended with new functionality such as a Voice over IP (VOIP) system for the school's telephone needs, something Kingsdown hopes to move to in the future

The 802.11n standard has only recently been ratified and offers enhanced speed and bandwidth. Kingsdown's

wi-fi network currently supports speeds of up to 300 Mbit/s but will soon be able to enjoy up to 600 Mbit/s. Users of current wi-fi implementations commonly get a maximum speed of 54 Mbit/s.

REACT Technologies has ensured that all 1200 students at the school now experience the maximum benefits from this cutting-edge system.

Kingsdown was, naturally, concerned about protecting its own data and keeping students safe from inappropriate content or online predators. REACT Technologies set up secure and segregated access groups for staff, students and guests.



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