

## Sale High School

Industry: Education

Technology: Wireless



Sale High School



### The challenge

To design and build a wireless LAN giving free roaming secure access to the college computer network for teachers and pupils using laptops and PDAs. The ambition is to extend it beyond the college to become a wireless ISP, providing Internet access to learning resources for local people.

### The components

Consultation and regular site visits

Technical expertise

System design and build

3Mbps data throughput provided through the installation of 41 AP-10D PRO.11 wireless Access Points and 2 x 2Dbi Omni-directional antenna

Post installation and ongoing support

### The details

The Sale High School in Sale, Manchester, has an enviable reputation as a leader in its innovative use of new technologies in education.

Space is limited for computers and meant that the college needed to look for ways of optimising space and resource. Wireless technology was the ideal solution, providing freedom and flexibility, while maintaining secure access to the college network.

Black Box Network Services was invited by the college to conduct a site visit and

In order to provide full wireless access through and across the entire school campus, Black Box Network Services installed 41 wireless access points. Specific access protocols and firewalls cover security issues of the wireless network to prevent unwanted intrusion. The technology has given the school a new freedom and flexibility and opened an opportunity to extend its educational excellence into the surrounding community. In June 2002 the project was voted the winner in the 'Most Innovative Use of Technology' Category at the Networking Industry Awards.

Leslie Fernandes, Group Managing Director UK & Ireland, Black Box Network Services, said "Winning this award is a real mark of how people at Black Box can do great things that make a difference to our business, and provide a real benefit for our customers. This is a wonderful way to begin the second half of this year. Congratulations to everyone who made this happen".

Said David Walmsley, Headmaster, Sale High School "Winning this award with Black Box is very exciting for us. It is a real demonstration of the determination shown by the school to make the best possible use of really extraordinary technologies that, only a few years ago, we could not even have imagined. We hope that what we have learned from our wireless projects will be used as a blueprint for others to follow. Congratulations to the whole team."

The award was given at a gala dinner at the Networks Telecoms 2002 event at the NEC exhibition centre,

feasibility study in a two-phase wireless programme, the first part to be completed within the year.

The survey established a Radio Frequency 2.4GHz network and the number and optimum locations of Wireless devices required to provide robust RF connectivity.

Birmingham, England on 25th June 2002 and was collected by Leslie Fernandes, Group Managing Director UK & Ireland, Black Box Network Services, Graham Evans, ICT manager Sale High School.