



## THE ADDRESS

Bradfield, Berkshire

## THE REQUIREMENTS

Wireless Network across the College for mobile data users

## THE TECHNOLOGY

- 1 x ARUBA Network 6000 Controller
- 85 ARUBA AP61's
- ARUBA PEF Module – Per User Firewall
- ARUBA WIP Module – Intrusion Prevention

## THE BENEFITS

- Access can be set up for specific groups to access parts of the College network for specific projects
- Offer secure network access all over the campus
- The ARUBA Networks solution gives the College the ability to move laptop trolleys around the College to different locations
- Provide a free data wi-fi network to the public
- Teachers are able to conduct electronic pupil registration anywhere on the campus

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## Customer Overview



Rated as "outstanding" by both the Independent Schools Directorate and Ofsted, Bradfield College an Independent boarding school, is the educational home to about 460 boys and 240 girls from the UK

and abroad. The 13-to-18-year-olds board in one of the dozen houses at the College.

Bradfield, founded in 1850 by Thomas Stevens, is set in its own village in Berkshire and is considered one of the country's leading co-educational, independent schools due to its academic excellence and well-rounded education.

David Owen, founder of the SDP; Ronald Muwenda Mutebi II, the King of Buganda; comedian Tony Hancock; journalist Nick Clarke; Louis de Bernières, author of Captain Corelli's Mandolin; Watership Down writer Richard Adams and explorer Benedict Allen.

## Business Situation

The College required wireless access across the College to enhance the functionality and productivity of the business, enabling staff to access the network facilities they needed from wherever they were working.

The College also wanted to provide pupils with internet access, enabling them to learn more efficiently both during classroom lessons or when completing assignments while also making it

easy for them to stay in contact with friends and family, and facilitate their leisure-time usage of wi-fi enabled devices such as music players.

The wi-fi solution had to cover all the boarding houses in addition to the teaching areas and library while providing easily-maintained management and control of the system to streamline the workload of IT staff.

## REACT's Solution

The College's buildings, situated in the village of Bradfield, range from listed buildings, including one incorporating part of a 14th Century barn to the most up-to-date construction methods. The range of building materials and methods used meant careful planning was needed to optimise the placement and number of wireless access points.

REACT Technologies installed a powerful Aruba 5000 Mobility Controller to manage the 76 access points fitted throughout the College buildings and installed a Policy Enforcement Firewall (PEF) as well as a Wireless Intrusion Protection (WIP) module, which protects the network against wireless threats to network security and eliminates the need for a separate system of sensors and security appliances.

The wi-fi system is configured to enable staff to see and access the complete College network while pupils, using their own laptops or wi-fi enabled devices, receive restricted access, shielding both the College's network from unauthorised use and the students from harmful websites.

Guests, using the network either during business at the College or as part of scheduled activities hosted in Bradfield's grounds during holiday periods, are also provided for while the legacy computing systems in the College's library are catered for with a pre-shared key system that ensures they are able to access the College's network.

