

Case Study - Wi-Fi Network Implementation for a Leading B-School in India

Customer Profile

One of the Top Business Schools in India. A proud recipient of International Accreditation by IACBE. One of Asia's Fastest growing Institutes with 53,000+ students.

Customer Need

1. Customer needed Wi-Fi connectivity for different blocks in their 9-acre college campus @ Bangalore
2. Customer was looking for Easy to maintain Wi-Fi access network, Cost effective, Efficient & Scalable solution

Our Solution Approach

- Detailed assessment and site survey were carried out initially
- A Pilot was carried out for testing the access point based on the bandwidth, signal strength and location requirements for the two hostel blocks in the campus
- Post Pilot, Optimum number of access points, Right positioning of access points, Right brand of access points based on bandwidth requirement & Optimal number of students per access point were determined.
- Identification of appropriate brand for access points & well-planned location strategy resulted in reduction of # of access points by 50%, which was a big cost saving to the customer
- Installation of Access Point Controller was suggested considering scalability and ease of managing different access points
- Load balancer was implemented to manage risk of complete internet failure. Dongle access was provisioned for 5 critical users in case of total internet failure.
- Bandwidth distribution was done based on the usage
- Role-based recommendations were provided to make the solution more efficient
- Mesh type Access network was designed and implemented to ensure no signal drop when a person moves from one access area to another
- Sophos Firewall implemented to protect from Malware, Vulnerabilities in Web Applications and targeted attacks. Rules were written to ensure right privileges to the users based on their profile (Students, teachers, admin, IT support etc.,)
- Over a period, as the # of students increased, solution was scaled up very easily by replacing more advanced and high strength access points. # of student access was increased from 20 per point to up to 60/access point.
- 3 more additional blocks (Admin, Auditorium and classroom) in the campus were included later as part of Wi-Fi Access network.

Benefits Delivered

1. Efficient network designing resulted in 50% reduction in the # of access points reducing the overall cost significantly
2. Simple, Scalable and efficient Wi-Fi network solution with ease of management resulted in seamless addition of students year after year with no glitches. Hence, college IT infrastructure is rated as one of the best B-Schools
3. User profile-based access control provided ensured no misuse of network bandwidth
4. Highly secured access network through implementation of best of the breed Security firewall in the network ensured minimal security related incidents in the college