



24online Managed Wi-Fi Standalone Solution at KIIT



In Nutshell

- › Supports next generation services
- › Acknowledged player in Banking & Educational Institutes
- › Caters Wired & Wi-Fi Networks
- › Plug-n-play solution
- › More than a decade of product experience/solution

Customer Name :	KIIT University
Industry :	Education Segment
Solution :	24Online Managed Wi-Fi Standalone solution, including bandwidth monitoring, prepaid coupon module and complete reporting and High Availability functionality has been implemented
Objective :	Providing a Managed Wi-Fi solution facilitating KIIT University to offer flawless wireless internet service throughout to their own student, staff and visitors. The solution should be able to authenticate the users trying to access the Wi-Fi network, manage bandwidth and generate coupons for users.
Approach :	KIIT University was approached by one of our channel partners for complete Wi-Fi hotspot solution.
Statistics :	24online SMS 10000ix Pro Plus solution has deployed at KIIT University as an HA mode with Audit Log, Data Transfer Management, SMS gateway, Walk-in Users, Net Kapture & Web surfing Logger modules.

Company Background

Kalinga Institute of Industrial Technology (KIIT) has rapidly become a leading institution in India for professional education, admired for its academic excellence, community outreach, and humanitarian efforts. Founded by Dr. Achyuta Samanta in 1992-93 with just Rs 5000, KIIT has grown into a vast educational institution offering diverse undergraduate and postgraduate programs to 40,000 students, including 2000 international students.

Spread over 36 square kilometers, KIIT has 25 campuses, world-class facilities, a super-specialty hospital, sports complexes, and is known as one of the greenest campuses in India. It has received prestigious national and international accreditations, ranks among the top global universities, and boasts a stellar placement record. KIIT has also produced 23 Olympians and significantly contributed to sports and social causes, thanks to the vision of its founder, Dr. Samanta.

Challenges

With the increasing demand of internet usage in educational institutes, managing bandwidth and internet access has become a dire need! Facing regular issues like high bandwidth usage, unauthorized user access and improper reporting to identify the users, KIIT UNIVERSITY decided to deploy a comprehensive solution that manages internet requests from the campus, students' accommodation, campus cafeteria.

Mr. Kalpataru, Project Co-Ordinator of KIIT University, listed down their complete requirements of the solution. He said, "We require a solution that can manage Wi-Fi access requests from various locations of the university where capacity of concurrent user/device 15,000 & the bandwidth should be pass through firewall. Most importantly, the solution should have user authentication feature by which any user trying to access internet should first get a login page. The user should enter the username & password to login and post successful login, the user should be allowed to access our network. The solution should also be integrated with our internal [ADS] database for fetching student's details. The solution should allow us to create and manage different user profiles based on which it should be able to distinguish their bandwidth and package assigned. This will help us to restrict students on their usage and maintain reports based on user's usage".

Solution Offered:

After considering complete requirements, 24online offered:

Bandwidth and Package Management: 24online's bandwidth management functionality allows defining minimum and maximum bandwidth to be allowed for each plan. Also, bandwidth restriction can be done after certain amount of data usage or after certain usage time period. 24online solution offers dynamic package creation feature using which Bennet can easily create and offer different packages for guest/users as per their requirements.

User Management: 24online's user management feature will help admin to manage all users and view connected users in the network instantly. It helps in managing the user life-cycle and track complete user details like package, bandwidth consumption, user status etc.

Authentication, Authorization and Accounting [AAA]: 24online AAA functionality ensures the authentication and authorization of the user request received from the network. It provides authorization based on IP and MAC addresses as well as accounting based on time, duration, and usage.

ADS Integration: 24online solution is integrated with BENNET UNIVERSITY's LDAP for smoothly communicating with their database server and fetch student's information and account details required for authenticating them. Integrating university's LDAP will also eliminate the need of recreating of complete user base in the 24online system.

Audit Log: Audit Log is dedicated to store all the actions performed by the user administrating 24online. With the help of this feature, you can search transactions or actions like create, manage, edit or delete actions performed in the specified time period and search actions as required. It gives complete details on all the actions performed and actions performed by, with IP address from where the action has been taken and action time. As this feature provides time and duration of action performed, it helps in tracking any unsecured login in admin GUI resulting into data loss.

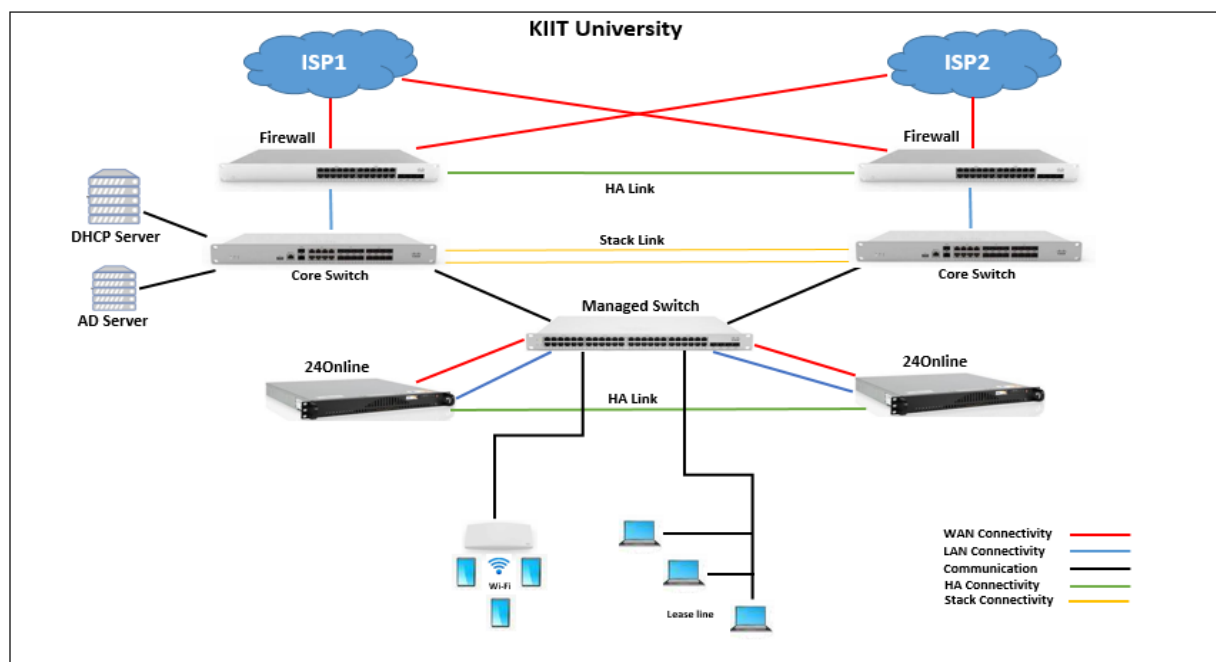
Data Transfer Module: By data transfer module, defining the amount of quota to be allocated for each user or a package can be done. 24online also facilitates to degrade the bandwidth after specific quota is consumed by the user.

Internet Coupon Management: 24online enables universities to provide internet coupons to access internet from any location in the university. Walk-in coupons can be generated for the selected packages with pins and passwords which can be further printed as prepaid cards.

Captive Portal Capabilities: It is necessary that all users accessing library's network should pass thru determined authentication process to secure the network from malicious activities and threats. 24online's captive portal feature offers various options to create and configure pre-login captive portal web pages. Different login templates can be designed and various authentication parameters can be integrated required for different login pages. Also, they can change or reset their password within the captive portal.

Reporting: 24online offers an advanced feature – **Web surfing logger**, by which an easy tracking of websites and applications surfed by users can be done. This feature is complied with the instructions issued by the government bodies. With the help of this module, regular reports in printable and graphical format can be obtained listing down the surfing details of each user. Moreover, it also helps to ensure about network security and in case of any malicious activity occurrence it makes easy to evaluate by reviewing reports stored in the system.

Network Diagram



About 24online

24online is a leading internet access management and network management solution that offers wide range of internet access control and management solutions that enables ISPs, Hotels, Hotspots, Airports, Educational Institutes, Smart Cities, etc. to simplify their internet network. 24online addresses the challenges of customer acquisition, secured service provisioning, internet billing, monetization via internet services and revenue management. The solution has vast experience in catering to varied network like Wired, Wi-Fi, Cloud, VSAT and LTE. With more than a decade of experience, we offer the world class solutions in the most cost-effective way.