Wireless for students' campus

CHALLENGE

The user (campus consisting of several separated complex) is served by a large number of students (over 2000) to various network services (Internet, VoIP, intranet applications, and services). In addition to persistent students and employees, the complex was visited by a large number of guests (parents, friends, teaching staff), with frequent demand for Internet access and other network services (eg Skype). As the number of users has risen, so to answer an increasing problem for the central management and security procedures. It was not possible to serve all users and their requirements wired network infrastructure, so access design wireless network infrastructure with a central wireless controller.

APPROACH

To project successfully brought to an end and meet the needs of users, it is necessary to consider all the physical barriers as well as all the specific requirements for Material Safety and central management procedures. after a detailed analysis of facilities and potential obstacles to the propagation of wireless signal, the preparation of project solutions with the help of specialized tools the spatial analysis of the spread of the wireless signal . Each building on campus has treated as a separate entity. Due to the existing optical infrastructure, Objects already possessed the ability of mutual crosslinking which was essential for this project . The second phase of the design included forecasting and implementation of all customer requirements in terms of safety and central management. All specific requirements are taken into consideration and implemented in the project. Special emphasis is placed on how to access the campus wireless network using Captiv Portal, which is also a security purpose but and marketing (web login page contained the campus logo and advertising messages). It is anticipated that access to the campus wireless network can be only under strict user controls and pre-defined period for each user individually.

CONCLUSION

After the implementation of centrally controlled wireless system, security network is brought to a high level with great flexibility and availability of network resource regardless of the location and the type of the user.