

# SOUTHEAST UNIVERSITY BUILDS “UNIVERSITY WITHOUT WALLS” WITH SA4000 SSL VPN APPLIANCES

**Industry:** Education

**Challenges:** To overcome limitations in the campus network which allowed only internal users to access the university's resources, creating a major obstacle in Southeast University's plans to build “a university without walls”.

**Selection Criteria:** Security, availability, ease of deployment and maintenance

**Network Solution:**

Juniper Networks SA4000 SSL VPN Appliance

**Results:**

- Simple, convenient and smooth access for remote users.
- Enhanced efficiency in the utilization of the university's resources.
- More sophisticated management of access rights.
- Enhanced performance with hardware-based SSL acceleration.

Southeast University is one of the key universities under China's “985 Program” and “Project 211” – two initiatives by the country's central government to develop world-class universities in the country. Administered directly by the Ministry of Education of China, Southeast University is also one of the first universities accredited by the State Council to determine and approve the qualifications of professors, associate professors and doctoral supervisors.

Southeast University comprises five campuses covering a total area of 155 hectares. It offers 60 undergraduate disciplines spread over 40 schools or departments, as well as 105 PhD programs and 200 Master programs. The total number of faculty and staff is 6,000, while the full-time student population numbers over 26,000, of which about 9,000 are post-graduate students.

## Challenges

Due to limitations in the campus network, access to the university's resources was restricted mainly to internal users. This created inefficiency in the use of the resources and was a major stumbling block in Southeast University's plans to build “a university without walls.”

## Selection Criteria

To address this, Southeast University required a solution that would enable remote access to the campus network while ensuring that security and protection of the university's resources were not compromised. The solution also had to be easy to install and use, as well as cost effective to build and maintain.

The SA4000 solution more than measured up to these requirements. Because Juniper's solution possessed notable advantages such as simple installation, ease of use, strong security and cost-effective construction and maintenance, it enabled easy remote access to the campus network, allowing internal resources to be shared remotely without compromising security.

## Solution

The Juniper Networks SA4000 solution was deployed to enable users to connect to the campus network using the browser-based Secure Sockets Layer (SSL) packet processing function. This allowed teachers and students to access data and other resources on the campus intranet server via applications installed on their remote computers.



Through seamless integration with the university's existing RADIUS (Remote Authentication Dial In User Service) system, which was being used by the campus network for user authentication, SA4000 solution allowed users to enjoy convenient browser-based access without the need to install a client server. At the same time, the deployment of hardware-based SSL acceleration ensured a high level of system performance and stability.

### Results

The large-scale deployment has enabled Southeast University to make its resources available to thousands of teachers and students.

At the same time, security is ensured with different access rights granted to teachers and students depending on their levels of authorization and the different resources they needed to have access to. The system also enabled Southeast University to optimize the use of its resources by allowing them to be shared by students across different faculties.

With the SA4000, teachers and students can now get simple, convenient and smooth access to the campus network irrespective of where they are located. This is a significant improvement in the efficient use and the value of resources that are available on the university's campus network.

### Next Steps and Lessons Learned

Going forward, Juniper Networks is committed to leveraging on its powerful technology and production base to provide education users with high-performance networking solutions which will enable them to extend the reach of their campus network resources while ensuring that these resources remain well protected and secure.

According to Zhang Xiaolin, Juniper's general manager for China, Southeast University's deployment of SA4000 marked an important breakthrough for Juniper Networks in China's education market. The experience has given Juniper Networks a clearer understanding of user requirements in the sector and put in place a strong foundation for future development in this market.

### About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at [www.juniper.net](http://www.juniper.net).

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