99.99% Security and Availability for University of Balearic Islands’ Network with Radware’s DefensePro

**Summary**

**Business Need**
The Center for Information Technologies (CIT) at the University of Balearic Islands (UIB) required a robust security solution for its network, protecting it against malicious attacks and keeping the network up and running 24/7 for its students and staff.

**Why Radware’s DefensePro**
UIB’s traditional firewall protection installed on the network could not provide the optimized security that Radware’s DefensePro offered with its exceptional intrusion prevention features, denial of service (DoS) protection and behavioral-based protection.

**Solution**
Radware’s standalone Defense Pro provides UIB’s network with multi-layered security, ensuring protection, continuity and performance of all traffic and applications while freeing up and optimizing operation of its servers.

**Benefits**
UIB can now provide 99.99% availability and reliability of its Internet and Intranet providing uninterrupted, secure access for its students and staff.

**Overview**
The University of the Balearic Islands (UIB–Universidad de las Islas Baleares) is a public Spanish university founded in 1978. The Balearic Islands are situated in the Mediterranean basin in South-Eastern Europe, of which Palma, on Majorca Island, is the capital. UIB’s main and largest 15-building campus is located just outside of Palma, with other smaller campuses in the center of Palma, in Esporles, Menorca Island and Ibiza Island.

UIB has over 13,000 students and a staff of over 1,500. It offers undergraduate and post graduate degrees as well as exchange programs for foreign students.

In order to facilitate the use of computer and networked resources, CIT established the Center for Information Technologies (CIT), which also helps integrate information technologies and services like teaching, research and administration throughout the different university campuses. UIB provides Internet access to all its students and staff, an Intranet website, e-administration, e-learning, unified communications and IPTV.

At any given time, there are 14,000 students and 1,600 staff members accessing the Internet and Intranet.

**UIB’s Network**
CIT built a 100 Mbps/1000 Mbps Ethernet L2 network distributed across fiber optic cable that connects the buildings and campuses of UIB as well as a WiFi network. A variety of protocols, like IP, DECnet and LAT, are running over the L2 network and CIT also uses other technologies like ATM and ADSL. UIB is connected to the Internet via several high-speed connections at OC3 (622 Mbps) and OC12 (155 Mbps) capacities. There are approximately 4,500 computers connected to UIB’s network.

**The Challenge: Securing the Network**
CIT relied on typical firewall protection methods to secure its network, IT infrastructure and Internet access, but found that its firewall protection...
provided insufficient protection for the new and numerous security challenges and threats emerging everyday. Network attacks like security intrusions, distributed denial of service (DDoS) attacks, self-propagating worms, backdoors, and encrypted attacks can take networks down.

CIT needed a standalone security solution that would completely protect its network from disabling security attacks and therefore have minimal security breaches and connectivity disruptions. CIT also wanted to offload its firewalls and servers with unnecessary and undesirable traffic.

The Solution: Radware’s DefensePro
After testing and evaluation based on performance, features and simplicity of deployment, CIT chose Radware’s advanced application security solution—DefensePro—for its network.

Radware’s DefensePro provides UIB’s network with comprehensive inline intrusion prevention, anomaly detection and denial of service (DoS) protection from a variety of known and unknown, zero-day attacks. DefensePro protects the network against viruses, worms, trojans, malware, DoS, DDoS and SYN flood attacks, while ensuring high performance. DefensePro automatically distinguishes between malicious and legitimate network activity without human intervention, and isolates attacks by dynamically managing bandwidth to stop propagation across users and resources.

With its multiple layers of security, including signature-based protection, protocol anomaly protection, encrypted SSL attack protection, access control, and bandwidth management, it provides unparalleled security for UIB’s network.

“We are very satisfied with Radware’s products and also with the technical support and treatment we received from Radware’s staff. We needed a tough security solution to protect our network and surpass the security level that the firewalls were providing as this was not sufficient. With Defense Pro, the viruses that were getting through were immediately stopped. Our Internet and Intranet have experienced a significant increase in availability,” said Antonio Sola, Director of CIT (Centre for Information Technologies), the University of the Balearic Islands.

UIB is also using Radware’s Insite, a management and monitoring tool for the APSolute™ suite of products. It permits the set-up, configuration and management of all Radware products from one central console and provides immediate visibility for real-time health monitoring, session and deep-packet inspection information. It lets UIB’s network administrators proactively monitor network activity and tune network behavior by quickly detecting, isolating and resolving problems before they impact their users.

With Radware’s DefensePro, UIB has maximized security against network and application level attacks resulting in unparalleled network performance and protection. With results like this, UIB will look to implement further Radware products for continuous enhancement of its application and network performance.

For More Information:
Please contact your Radware reseller or Radware sales at 888-234-5763 or visit our website at www.radware.com.

This case study is an example of how one customer and business partner used Radware’s application delivery solutions. There is no guarantee of comparable results.