



About EADS

The European aerospace consortium EADS (European Aeronautic Defense and Space) is one of the largest industrial organizations in Europe and had a turnover of €30.1 billion in 2003. As part of a company-wide EADS project, involving approximately 100 external locations, mobile clients – known as “Road Warriors” – were to be given access to the EADS corporate network using VPN technology.



Barracuda NG Firewall Cost Efficiency at a glance

- Extendable Barracuda NG systems offer companies sustainable investment protection.
- Unique management functions allow for quick and efficient roll-outs.
- Central management lets you save significant time and effort.
- Unique license and appliances/ server hardware combination lets you achieve a maximum of flexibility and cost optimization.



Powerful, scalable, secure EADS counts on Barracuda NG Firewall

“Barracuda Networks made a successful bid against international competition and now plays an important role in the security and availability of data communication in the EADS organization”, according to Dr. Wieland Alge, CEO of phion AG. “Consistent implementation of the latest technologies for connectivity and security was demanded, and Barracuda NG Firewalls were able to fulfill these demands the best.”

With the Barracuda NG product family, Barracuda has already successfully established itself in the Austrian market and has been expanding at the European level since the beginning of 2004. The flexible implementation possibilities, performance and central management of the Barracuda NG solutions persuaded the security specialists from the customer side, even though they had already evaluated various solutions from other providers. Minor adaptations were enough to meet the special requirements. EADS has thus decided to rely consistently on a public key infrastructure (PKI) for the authentication of VPN connections and the initial exchange of encryption information.

Using special adaptations, this technology was expanded so that the access rights of individual users could be checked and regulated in great detail. At the same time, this method allows the type and method of the encryption to be used to be specified.

The products from Barracuda are known in the market amongst other things for their highly scalable management functions. EADS used this advantage and realized a solution based on the grouping of users and the allocation of suitable profiles. In this way it was possible to provide a balance between granularity for the best possible security and high abstraction for effective, scalable management. For grouping, the Barracuda NG Firewalls read so-called object ID extensions from the digital certificates in the opening phase of the VPN connections.

Via these OID extensions, which can be freely selected when producing the certificate, users are allocated to different groups.

Inter-operable with VPN products from other providers

Particularly in large organizations like EADS, you cannot just implement one stand-alone solution. Right from the earliest concept phase of the project, the interoperability with VPN solutions (client and gateway based) of other providers was kept in focus.

The new solution therefore uses the current standards throughout and thus ensures connectivity, even when the opposite number is not using a Barracuda NG Firewall.

Redundant Barracuda NG Firewalls ensure availability

Modern network infrastructures are nowadays one of the critical pre-requisites for the smooth running of organizational processes. In many cases, the loss of network communication leads not only to a reduction of productivity in subareas, but makes employees completely unable to work. This is the case, for example, if central resources can no longer be accessed. Like many other organizations therefore, EADS was presented with the challenge of ensuring uninterrupted availability.

About Barracuda NG Firewall Network Security

As the most successful attacks mounted today are within the network, a single remote access link with an unsecured external PC or laptop is often sufficient to allow hackers and malicious codes to open a back door into the company. There are also additional hazards that arise as a result of intentional or unintentional misconduct by some employees. This threat cannot be mastered with perimeter protection alone, because attackers are already behind the network limits.

Crucial business processes run smoothly thanks to multi-gigabit firewall performance and integrated bandwidth management. By combining a Stateful Inspection Firewall with Intrusion Prevention, Denial of Service Protection, intelligent application-selective bandwidth and multipath management plus VPN technology, guarantee constant availability and protection. This is exactly what Barracuda is delivering with NG.

Protection is no longer limited only to the perimeter and branches, but extends to all sensitive network areas. Flexible deployment and support for virtualized environments is crucial for successful realization of clean bit structures in your LAN.

EADS needed a complete solution that connected all the important security, connectivity and management functions with each other. At EADS, at central points where numerous VPN connections come together, there is redundant provision of the Barracuda NG Firewall's VPN service. Two physical machines are combined into one high-availability cluster. Both computers monitor themselves and each other so that they can take over the operations of the other if necessary. The basic pre-requisite for this uninterrupted operation is an ingenious synchronisation mechanism that ensures that none of the established connections are lost when "switching over".

Power needs checks

The uppermost principle is particularly applicable to the area of security applications. As a result, one of the most significant arguments for the solution from Barracuda NG is the management approach, which is currently unique on the market. Up to now, producers followed either a total abstraction system (policy based) or centralised and device-based administration. In contrast, Barracuda NG offers a hierarchical concept, which allows "top-down" configuration, but at the same time consolidates events and statistical information "bottom up".

One of the biggest advantages is in the complete reproduction of the gateway in management. In this way, the administrators are no longer required to deal with operating system, network and application.

Conclusion

Due to the unique combination of cutting-edge security functions, intelligent connectivity management and the software appliance with hierarchical management, Barracuda was able to successfully implement all the demands of EADS.

About Barracuda Networks Inc.

Barracuda Networks Inc. built its reputation as the worldwide leader in content security appliances by offering easy to use and affordable products that protect organizations from email, Web and IM threats. Barracuda Networks has leveraged its success in the security market to offer networking products that improve application delivery and network access as well as world-class solutions for message archiving, backup and data protection. Coca-Cola, FedEx, Harvard University, IBM, L'Oreal, and Europcar, are amongst the 100,000 organizations protecting their networks with Barracuda Networks' solutions. Barracuda Networks' success is due to its ability to deliver easy to use, comprehensive solutions that solve the most serious issues facing customer networks without unnecessary add-ons, maintenance, lengthy installations or per user license fees. Barracuda Networks is privately held with its headquarters in Campbell, Calif. Barracuda Networks has offices in 10 international locations and distributors in more than 80 countries worldwide. For more information, please visit www.barracudanetworks.com.