



BARRACUDA FIREWALLS RELY ON R&S[®] PAGE 2

How deep packet inspection enables security and traffic control
of critical enterprise cloud applications

ROHDE & SCHWARZ

Make ideas real





CHALLENGE

When Barracuda first engaged with Rohde&Schwarz in 2007, enterprises were most concerned about the unauthorized use of Skype, other P2P applications and instant messaging. Of course, the need for application control and awareness remains. Still, enterprise concerns are shifting to securing enterprise applications hosted in private and public clouds, protecting east-west data center traffic and preventing unwanted traffic and malware on the corporate network.

Fast and reliable application classification using DPI remains a prerequisite for a firewall solution to enable advanced security and traffic management policies. A dependable solution is necessary, as firewall vendors face multiple challenges today. These challenges vary from protecting highly complex distributed networks on both physical and virtual infrastructure to a growing number of mobile workers accessing enterprise cloud applications such as Office 365 and Salesforce CRM. In the cloud era, network firewalls are more than just security devices, they must ensure network availability across distributed networks.

Barracuda faced the following challenges:

- ▶ Protecting dispersed enterprise networks that rely on cloud computing, software as a service (SaaS) and an increasingly mobile workforce
- ▶ Ensuring up-to-date application security policies amid the rise of shadow IT, e.g. BYOD: employees bringing their own apps and mobile devices to the workplace
- ▶ Having a high-performance DPI software that receives regular application and protocol updates without the need to increase internal R&D expenses and investment in signature plug-ins and maintenance
- ▶ Providing a greater ROI through additional services

SOLUTION

By embedding the DPI engine R&S®PACE 2 from Rohde&Schwarz at the core of their CloudGen Firewall F-Series, Barracuda is able to classify network applications up to Layer 7.

R&S®PACE 2 provides powerful and extremely reliable detection and classification of thousands of applications and their attributes through combining DPI and behavioral traffic analysis, regardless of whether the protocols use advanced obfuscation, port hopping techniques or encryption.

Barracuda's cloud-ready firewalls utilize the OEM deep packet inspection (DPI) software R&S®PACE 2 to achieve reliable application visibility that allows for controlling network traffic and for facilitating the secure delivery of critical cloud business applications.

SUMMARY

Area of Business

- ▶ IT security vendor, providing networking, security and storage products based on network appliances and cloud services

Challenge

- ▶ Full traffic visibility in order to set up advanced security and traffic management policies
- ▶ Securing and controlling enterprise applications hosted in public clouds
- ▶ Guarantee for uninterrupted network availability and operational continuity

Solution

- ▶ Embedding the DPI engine R&S®PACE 2 in the Barracuda CloudGen Firewall F-Series to classify applications running on the network in real time

Benefits

- ▶ Granular control over which applications are permitted, prioritized or deprioritized for access
- ▶ Maximized return on investment (ROI) and reduced total cost of ownership (TCO) by sourcing R&S®PACE 2

Being embedded in their F-Series CloudGen Firewalls, R&S®PACE 2 enables Barracuda to identify protocols like Voice over IP (VoIP) while maintaining a high bandwidth, even if settings are being changed to reprioritize applications on the fly (dynamic quality of service (QoS) settings). This improves site-to-site connectivity and enables uninterrupted access to applications hosted in the cloud, all while simplifying the administration of network operations for enterprises and managed service providers (MSP).

Additionally, real-time visibility and visibility of traffic history on the corporate network provide a basis for decisions on which connections should be given bandwidth prioritization, which is the crucial factor for QoS optimization for business-critical applications. It also helps refine the corporate policies for the usage of applications.

Benefits

By embedding R&S®PACE 2, Barracuda is able to:

- ▶ Manage network traffic volumes
- ▶ Quickly and accurately identify Layer 7 applications for real-time security and policy control
- ▶ Detect the newest encrypted or unencrypted applications
- ▶ Preserve bandwidth and speed up business-critical applications to ensure business continuity
- ▶ Reduce costs associated with developing, implementing, QA testing and maintaining in-house DPI

Furthermore, R&S®PACE 2 comes with weekly signature updates, fast performance and low memory footprint and also delivers the highest classification accuracy in the DPI market.

RESULT

As a result, Barracuda’s virtual and cloud-based F-Series firewalls are enhanced to facilitate real-time policy and security management in order to protect today’s distributed enterprise networks of office sites, data centers and mobile workers. This has increased their customers’ satisfaction by providing a trusted network protection solution.

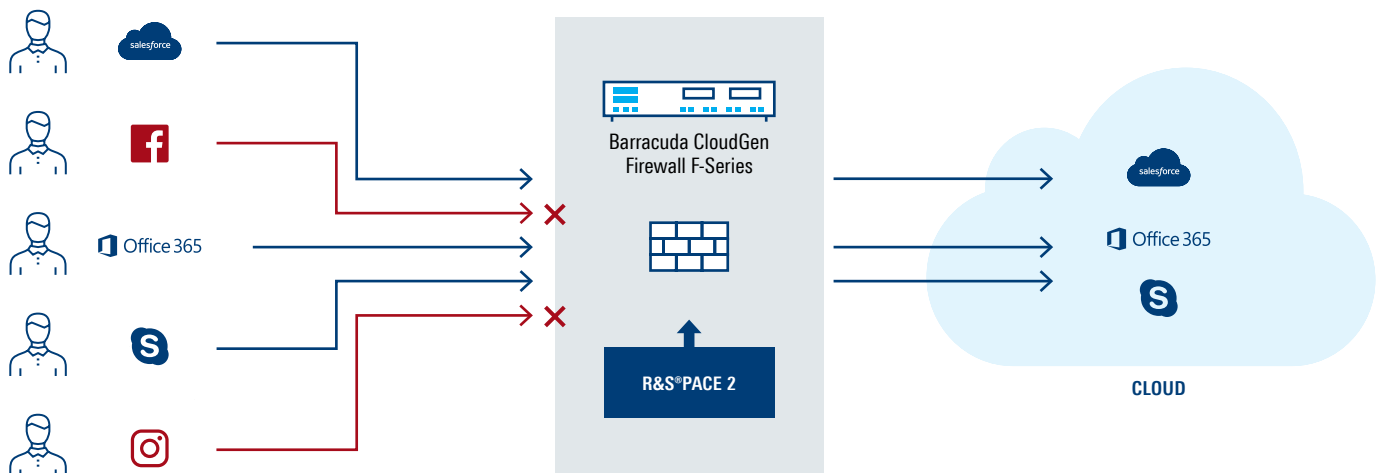
By sourcing the DPI engine R&S®PACE 2, Barracuda has been empowered to focus on their core product and on what makes them and their services unique within the market.

Convinced by the benefits of R&S®PACE 2, Barracuda decided to embed the Rohde & Schwarz DPI engine into their product Web Security Gateway.

“We are committed to provide award-winning products and excellent support for our customers and partners. This is only possible if our technology partners can live up to the same high expectations and standards. Throughout our entire partnership we have always felt very well looked after by Rohde & Schwarz, who have always been highly committed to provide a timely solution to any problem.”

Dr. Klaus M. Gheri, VP & GM, Network Security, Barracuda

DPI-ENABLED APPLICATION CONTROL



ipoque

ipoque, a Rohde&Schwarz company, is a global leader in the world of network analytics software. We leverage our deep domain expertise to create customized software solutions that empower our customers to transform data into intelligence. As a subsidiary of Rohde&Schwarz, we take advantage of potential synergies.

Rohde & Schwarz

The Rohde&Schwarz technology group develops, produces and markets innovative information and communications technology products for professional users. Rohde&Schwarz focuses on test and measurement, broadcast and media, cybersecurity, secure communications and monitoring and network testing, areas that address many different industry and government-sector market segments. Founded more than 80 years ago, the independent company has an extensive sales and service network in more than 70 countries.

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Case study | Barracuda firewalls rely on R&S®PACE 2
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