

PROACTIVE NETWORK ANALYTICS FOR HIGH-PERFORMANCE DATACENTERS

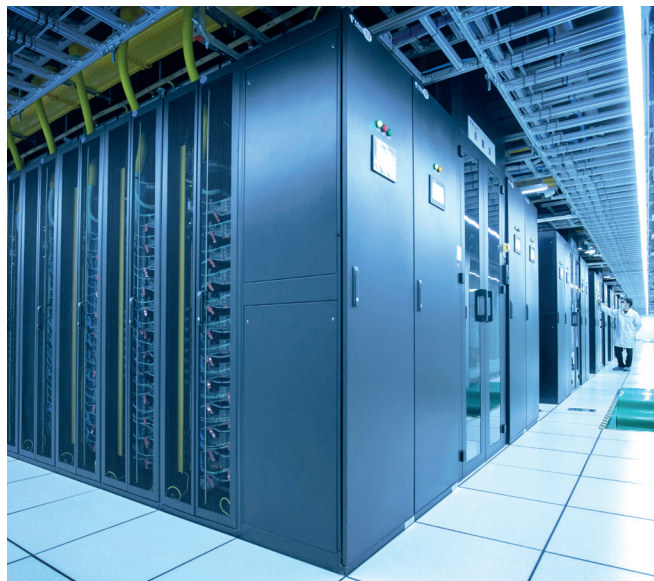
Gain real-time visibility into datacenter traffic and detect performance issues before they impact users. R&S®Probe Observer enables application-aware monitoring and faster root-cause analysis across complex network environments.

Customer challenges

Modern datacenter environments are becoming increasingly complex, making it difficult for operations teams to maintain full visibility and ensure consistent service quality and experience.

The most common challenges:

- ▶ Growing data volumes driven by 100G/400G/800G networks challenge the scalability and cost-efficiency of traditional monitoring solutions
- ▶ Limited visibility into application and network traffic
- ▶ Increasing complexity across servers, routers, switches, taps, and distributed infrastructure
- ▶ Slow and inefficient root-cause analysis
- ▶ Difficulty identifying violations of Service Level Agreements (SLA) and service degradation
- ▶ Rising operational costs caused by prolonged troubleshooting
- ▶ Lack of centralized monitoring across teams and locations
- ▶ Poor user experience due to latency, packet loss, or connectivity issues



Solution overview

R&S®Probe Observer provides deep network visibility and real-time traffic analytics to help operators quickly identify, isolate, and resolve network issues.

Key capabilities:

- ▶ Real-time IP traffic analysis, including in-depth application visibility
- ▶ Application-aware monitoring across datacenter environments
- ▶ Precise calculation of latency, jitter, and packet loss
- ▶ Historical traffic analytics to identify trends and patterns
- ▶ Intuitive dashboards and reporting
- ▶ Real-time anomaly detection

Customer value:

- ▶ Seamless, scalable monitoring for high-speed 100G/400G/800G network environments
- ▶ Faster root-cause analysis
- ▶ Improved operational efficiency
- ▶ Better user experience and service reliability
- ▶ Reduced downtime and troubleshooting effort

ROHDE & SCHWARZ

Make ideas real



Example scenario

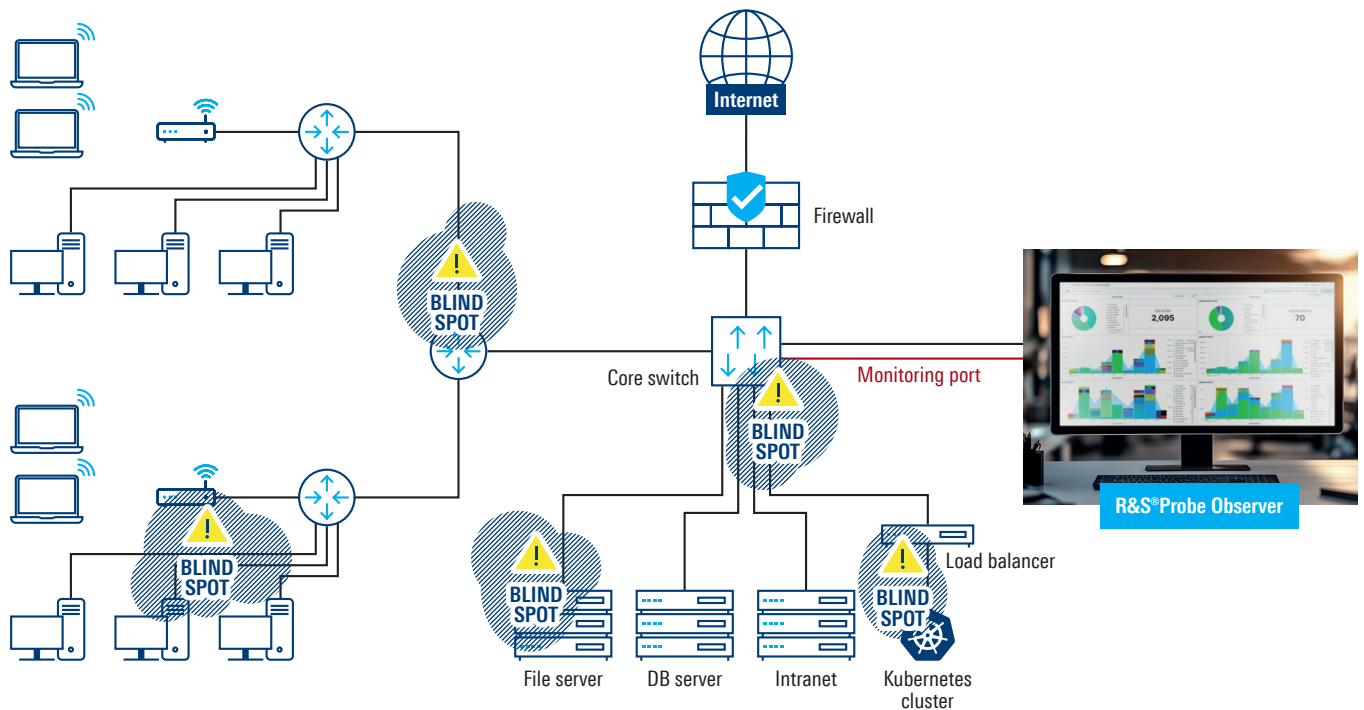
Situation: Modern data centers are rapidly upgrading from 100G to 400G and even 800G network infrastructures to support growing application demands, cloud services, and AI workloads.

Challenge: As traffic volumes increase exponentially, traditional monitoring and analytics solutions struggle to capture, process, and analyze all network data without packet loss or reduced visibility.

Solution: High-performance passive network analytics platforms provide scalable, lossless traffic monitoring and real-time insights, ensuring full visibility even in ultra-high-speed environments.

Key benefits

- ▶ Future-proof monitoring that grows with increasing network bandwidth and traffic volumes
- ▶ Reduced troubleshooting and mean time to resolution (MTTR)
- ▶ Improved SLA compliance and service reliability
- ▶ Increased operational efficiency across teams
- ▶ Optimized network and infrastructure resources
- ▶ Enhanced customer and user experience
- ▶ Minimized downtime risks
- ▶ Lower operational costs through faster issue resolution



Locate and eliminate the blind spots in your data center network with R&S Probe Observer

Ideal for

- ▶ Datacenter operators
- ▶ Internet service providers (ISPs)
- ▶ Managed service providers (MSPs)
- ▶ Enterprise IT and network administrators
- ▶ Network Operations Centers (NOCs)
- ▶ Security Operations Centers (SOCs)
- ▶ Cyber Defense Centers (CDCs)
- ▶ Network engineering teams

ipoque GmbH

A Rohde & Schwarz Company

Augustusplatz 9, 04109 Leipzig

Info: +49 (0)341 59403 0

Email: info.ipoque@rohde-schwarz.com

www.ipoque.com

Rohde & Schwarz GmbH & Co. KG

www.rohde-schwarz.com

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG

Trade names are trademarks of the owners

PD 3673.3827.32 | Version 01.00 | July 2026

Proactive network analytics for high-performance datacenters

Data without tolerance limits is not binding | Subject to change

© 2026 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany

© 2026 ipoque GmbH | 04109 Leipzig, Germany