

R&S® PROBE OBSERVER

Ready-to-use network analytics suite
for high-performance network monitoring



Schedule a demo
or trial period.

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See beyond the surface: Ensure the integrity, security, and peak performance of your network with R&S®Probe Observer, the cutting-edge network probe solution. Designed to delve deeper than traditional monitoring tools, our probe empowers network administrators and other IT professionals to detect deviations in Quality of Service in real-time, optimize bandwidth usage, and fortify security. Discover the unseen, resolve issues before they escalate, and transform your network management with unparalleled visibility.

R&S®Probe Observer is a turnkey probing solution, consisting of the following components:

R&S®Probe

A network probe for extracting and deriving metadata from network traffic in real time. It collects network KPIs as well as protocol, application and subscriber details leveraging R&S®vPACE Probe, powered by our DPI engine R&S®vPACE.

Front-end

A data analysis and high-performance network monitoring front-end that automatically aggregates and stores all relevant information extracted from IP packets and flows. Open REST APIs of the Elastic Stack provide direct access to the underlying analytics database. An easy-to-use, intuitive user interface provides a wide variety of views, displaying detailed insights into all kind of network traffic flows.



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Make ideas real



Key benefits

- ▶ **Ready-to-use:** Open interfaces help to integrate R&S®Probe Observer seamlessly into your environment.
- ▶ **Highly performant:** With R&S®vPACE at its core, the solution processes network traffic at near-wire speeds with low resource demands.
- ▶ **High accuracy and reliability:** IP traffic classification with virtually no false positives.
- ▶ **Uninterrupted weekly updates:** Frequent signature updates that can be performed seamlessly during runtime without restarting the processing.
- ▶ **Encrypted traffic intelligence:** Advanced machine learning (ML) and deep learning (DL) techniques to also classify traffic when it's encrypted.

Capabilities

- ▶ **Analytics & reporting:** A data analysis and high-performance network monitoring front-end. See network KPIs, such as QoS at a glance and aggregate information per subscriber.
- ▶ **Management:** Manage and configure the components of your R&S®Probe Observer with a central interface.
- ▶ **GTP subscriber resolving:** Correlate control plane (GTP-C) and user plane (GTP-U) traffic to link user activity to specific subscribers, providing valuable insights into usage patterns. Anonymized views protect subscriber privacy while still delivering comprehensive analytics. Optimize your network performance and tailor your services to meet user needs.

- ▶ **Dashboards:** Create customizable dashboards to get an overview of the most important metrics. Manage and share them to align with your business needs and stakeholders.
- ▶ **Live processing:** Analyze network traffic in real time to gain insights into your network's performance.

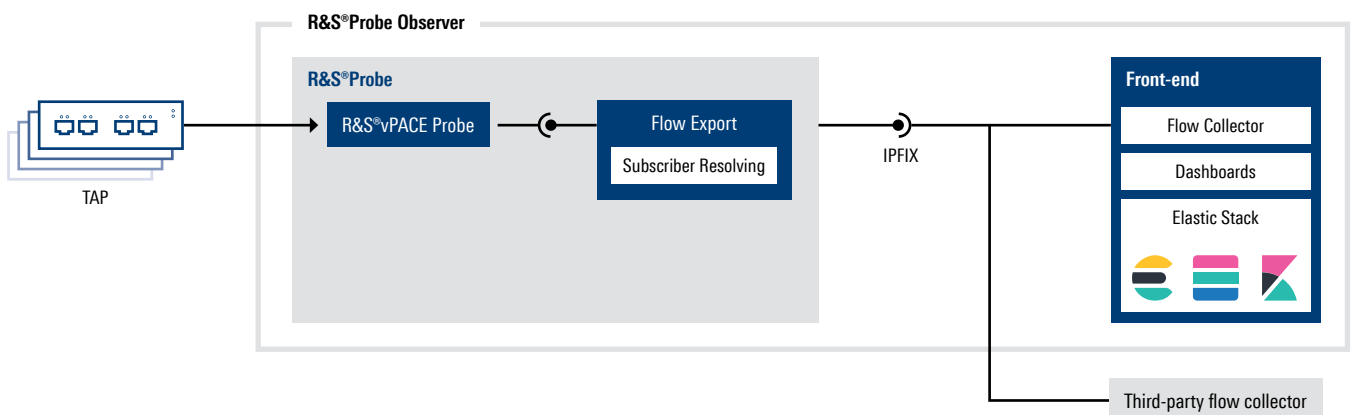
Use cases

Compose and configure R&S®Probe Observer to represent your use case best:

- ▶ Gain real-time insights into network usage and use network KPIs to support your decisions. Use historical data to identify changes in network usage and behavior. Find network optimizations and improve capacity planning.
- ▶ Monitor bandwidths and use protocol-specific network performance indicators, such as latency, jitter and TCP statistics for data-driven decisions.
- ▶ Provide detailed insights to pinpoint the root cause of performance issues, reducing mean time to detect (MTTD) and mean time to resolve (MTTR).

Updates and support

Sustainable technical support and service go far beyond basic troubleshooting. With continuous optimization and maintenance, licensing our DPI technology ensures a smooth operation with calculable operating costs through the entire product lifecycle. Adaptable service level agreements (SLAs) with adjustable response times provide technical expertise tailored to customer's requirements.



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R&S®Probe Observer

Data without tolerance limits is not binding | Subject to change

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