

# 10Gbps MediaProbe

As mobile data services gain more traction through the use of smart phones and new innovative services, network operators are starting to deploy 10Gbps network infrastructure to handle the increased bandwidth requirements. In order to retain current and new customers and make sure the increased traffic results in higher revenue, tools for ensuring the quality of service need to be implemented. In addition, the increased traffic should preferably be managed by the same number of operational staff, making it even more vital to have systems in place that can detect the root cause of any service or network problem that might occur.



## Monitoring 10Gbps with MediaProbe

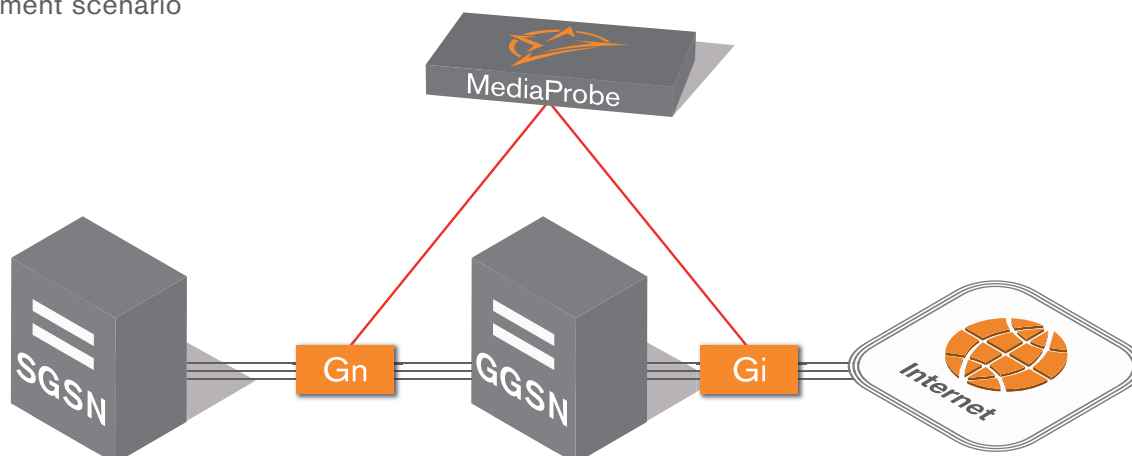
As a module in the OSIX product, MediaProbe is installed non-intrusively on 10Gbps interfaces within the operators' networks. In addition to presenting KPIs and KQIs for a vast number of mobile data services, MediaProbe provides per-session-based information. The ability to aggregate service usage information per session is vital in any Customer Experience Management approach, as this is the only way to truly understand what quality of service is delivered to individual customers. Another area of uniqueness is MediaProbe's ability to provide accurate on-demand monitoring and reporting on both ongoing and completed data sessions.

## The MediaProbe difference

MediaProbe uses Deep Packet Inspection techniques to provide for the aggregation of all data on a per-session basis. Tailor-made algorithms using FPGAs enable full control and predictability while inspecting the dataflow from low-level bit streams on the wire to session-based information. This, in combination with state-of-the-art hardware, accomplishes lossless monitoring of 10 Gbps links at wire-speed. The hardware is implemented in a MicroTCA form-factor that provides for a robust carrier-class architecture. In addition to wireless backbone infrastructure, MediaProbe also supports IMS and VoIP.



## Deployment scenario



## The Polystar difference

This proactive enhancement of monitoring QoS provides a key-customer retention mechanism that offers anti-churn capabilities, positive customer experience and a measurable return on investment. Information is only as good as it can be digested and displayed. In many respects, having millions of lines of unsorted data is no improvement over having no data at all. Polystar provides the solutions to make the important data visible and usable—quickly and efficiently.



MediaProbe is a part of the OSIX product range and is not sold separately. Functionality as described in this brief might require additional hardware and software.

## Fact list

- Full 10Gbps payload support
- Up to four 10Gbps interfaces per unit
- 10GBASE-SR/LR/LRM/ER, using SFP+ modules
- Interfaces: Gn, Gi
- Aggregation:
  - Session-based (per user session)
  - Flow-based: UDP, TCP
  - Application-based: HTTP, FTP, SMTP, POP, IMAP, WAP, DNS, MMS, etc. (port- and/or pattern-based)
- Transparent signalling: GTP-C, Sigtran
- Transparent payload streaming:
  - ~ 10 concurrent
  - Based on TEID
- Physical Dimensions
  - Height: 1U
  - Width: 19"
  - Depth: 600 mm
- Power supply: 110-240VAC with frequency from 47-63Hz
- Operating temperature: 0° to 55° C

## Why Polystar?

Polystar OSIX is a privately held company with 26 years of experience in the telecom industry, all of which have been profitable. We believe that this has been possible due in part to our ownership and the fact that our quarterly objectives are not set around the requirements of share holders. Polystar OSIX can plan for the long term and develop relationships and solutions for tomorrow, not just today—which in turn keeps us profitable. Furthermore, profitability helps us stay at a premier level of technology. Rather than just being another player in the field, Polystar OSIX can remain at the forefront of design and technology and be a leader in our niche.