



Enabling Comprehensive VoIP Analytics across Public/Private Cloud Environments

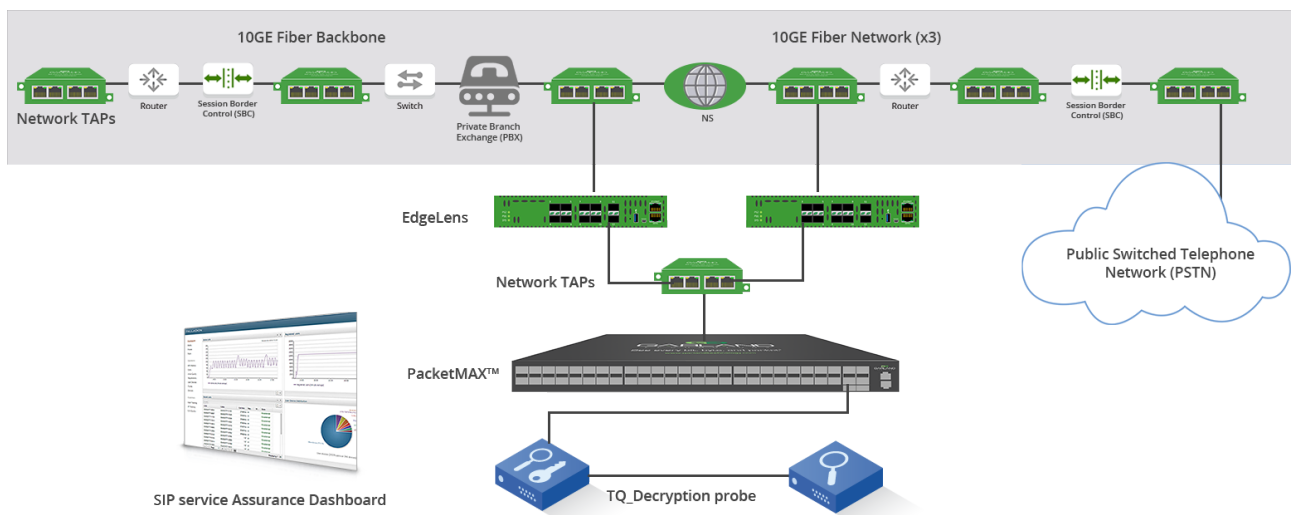
Reduce VOIP analytics to minutes in complex hybrid Telecom environments.

When efficiently managing a voice over Internet protocol (VoIP) telephony environment, Session Initiation Protocol (SIP) monitoring system is essential for delivering excellent service quality and 5x9's up-time. Garland Technology and Teraquant Oracle SIP Service Assurance solution delivers 100% packet-level visibility eliminating voice, video, and UC service blind spots across the network at the lowest operational costs. By partnering together, they help spot performance degradation and drill down the root cause of security threats and service problems, reducing trouble ticket resolution time by 66%.

Service Assurance combines troubleshooting with proactive performance monitoring including alert and trap generation. Oracle's OCOM is the preferred platform for troubleshooting and maintenance for real-time services. Delivering total visibility across your entire network, OCOM from Teraquant provides a complete solution for SIP Service Assurance. The solution isolates all call connection and quality issues and saves you from sudden bursts of international fraud or stealth under the radar fraudulent revenue leakage, inbound robocalls, and domestic traffic pumping.

By saving all historical calls, issues are already captured and can be isolated in seconds. What used to take IT professionals 1-2 hours to analyze in wait time for resolution and strain on network security, now solves in 1-2 minutes and manages performance proactively. The combined Garland/Teraquant solution optimizes operational efficiency, requires no CAPEX, and shows OPEX profit in the first month.

On-Premise Deployment

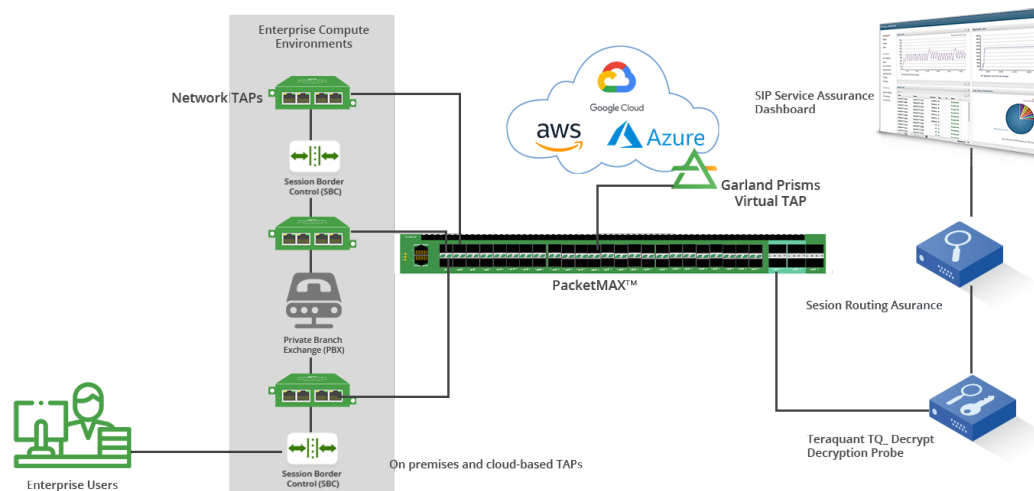




How it works

1. The Garland Technology network TAPs are deployed in on-premise locations feeding into the Garland Technology PacketMAX packet broker.
2. Garland Technology configures the required filters and aggregation as required by a customer.
3. The Garland deployment routes filtered and load-balanced IP packets to the Teraquant packet capture probe, where the customer logs into the Mediation Engine to use the Teraquant SIP assurance dashboard.
4. Teraquant SIP service assurance delivers KPI reporting, decryption analysis, and big data analytics applications that are reported on customers' common off-the-shelf servers (COTS.)

Public/Private and Hybrid Cloud Deployment Use Case



How it works

1. In a public cloud deployment, customers need access to data from both on-premise data and public cloud workloads like Azure, AWS, Google Cloud, or VMWare/Private cloud environments.
2. The Garland network TAP feeds from physical data center environments and the Garland Prism traffic mirroring provides packet-level data via GRE or VxLAN tunneling to hybrid deployments.
3. The data mirrored from the on-premise or virtual TAP is delivered and aggregated via PacketMAX Advanced Aggregator.
4. The Garland deployment routes filtered and load-balanced IP packets to the Teraquant packet capture probe, where the customer logs into the applications server to use the Teraquant SIP assurance dashboard.

IT Operations and Sec Ops Team Benefits

- Provide rapid troubleshooting of IP telephony problems, according to our customers, “what used to take us two hours to troubleshoot, now takes us less than 2 minutes.”
- Ensures real-time trending, graphing, and alerts of performance threshold violations.
- Gain full control of the network with dashboards for every aspect and dimension of an IP telephony service.
- Gain full control over traffic behavior with advanced traffic aggregation, load balancing, and filtering.
- Reliable zero-loss packet processing.
- Filter duplicated packets optimizing resource consumption, throughput, and storage capacity.

Integration Benefits

The Teraquant SIP solution and Garland Technology provides unique visibility to customers in the public and private cloud that can be quickly implemented. Using readily available and industry-standard protocols, this partnership’s proven interoperability has been scaling millions of complex hybrid environments, increasing ROI, and overall saving 37% on operational support costs. IT operations and Security Ops teams gain industry-leading accurate analytics for VoIP environments.

About Garland Technology

Garland Technology is an industry leader delivering network products and solutions for enterprise, service providers, and government agencies worldwide. Since 2011, Garland Technology has developed the industry’s most reliable test access points (TAPs) and packet brokers, enabling data centers to address IT challenges and gain complete network visibility. For more information, or learn more about the inventor of the first bypass TAP, visit GarlandTechnology.com or [@GarlandTech](https://twitter.com/GarlandTech).

About Teraquant

Teraquant is an independent software vendor (ISV). We bring these development grade skills to integrating telephony infrastructure, software-defined networking (SDN), and measurement and monitoring systems to provide instrumented solutions that give KPI’s and visibility on performance and fault management (FM) of the IT service. Learn more at Teraquant.com

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+1 716.242.8500

sales@garlandtechnology.com

