



Unlock Full-Stack Network Intelligence: A joint solution from Mahlet and Garland Technology

Modern networks are more complex, distributed, and mission-critical than ever before. Yet most monitoring and security architectures begin at Layer 2 and above, leaving a significant blind spot at the physical layer. Organizations can invest heavily in cybersecurity, network monitoring, and performance management tools, but if they cannot see the underlying infrastructure transporting their data, critical failures and sophisticated threats can remain hidden until disruption.

Mahlet and Garland Technology address this challenge by delivering complete network visibility, combining Layer 1 intelligence with comprehensive packet-level visibility. Together, the solution provides organizations with complete insight from the physical fiber infrastructure, enabling faster troubleshooting, stronger security, and improved operational resilience.

Mahlet and Garland Technology

Organizations invest heavily in security and monitoring tools, but most visibility architectures still have a blind spot at Layer 1.

When performance issues, outages, or security incidents occur, teams often have packet data but lack insight into the underlying infrastructure carrying that traffic. Without visibility into both layers, troubleshooting becomes more difficult and critical threats or failures can go undetected.

Garland Technology and Mahlet work together to close this visibility gap. Garland's Select TAP is used to provide a complete copy of network traffic without impacting production networks, while a Garland Packet Broker is used to aggregate and optimize traffic for security and monitoring tools. Mahlet's L1FEguard adds Layer 1 intelligence by providing visibility into optical telemetry, transport protocols, management channels, Ethernet PCS processing, and tunneled traffic. Together, they deliver Full-stack Visibility from the fiber infrastructure to the packet layer, helping organizations improve security, accelerate troubleshooting, and increase network resiliency.

Joint Solution Benefits

- Full-stack visibility from Layer 1 to Layer 7
- Simplified Tool Integration to distribute traffic to downstream security and monitoring tools
- Detect threats across both physical and packet layers, exposing attack paths
- Faster troubleshooting by correlating events and packet-level activity
- Build a visibility architecture capable of supporting future initiatives

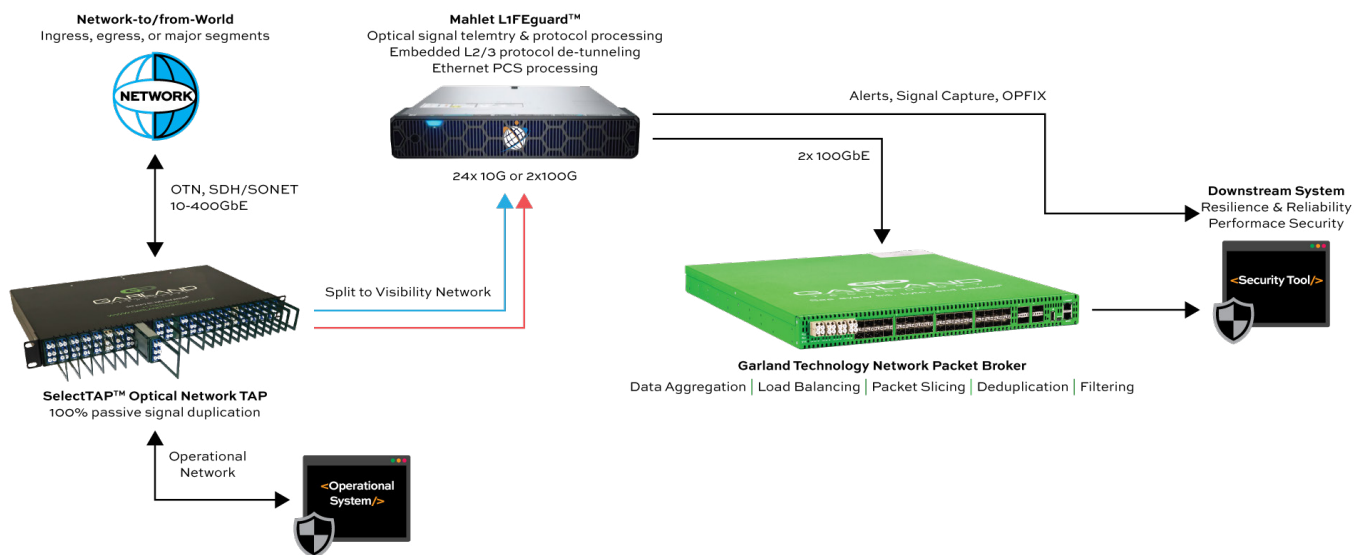
HOW IT WORKS

Scenario 1: High-Speed Networks

1. For organizations operating critical 10G, 100G, 200G, and 400G network infrastructure, visibility is often limited.
2. A Garland Technology network TAP is deployed on a critical network link, creating a complete copy of the traffic without introducing latency or impacting operations.
3. The copied traffic is simultaneously sent to the Mahlet L1FEguard platform and a Garland Technology Packet Broker.
4. L1FEguard analyzes the optical signal, transport protocols, management channels and other Layer 1 telemetry, while the Packet Broker aggregates and distributes packet data to security and monitoring tools.

Scenario 2: Traffic Correlation and Network Intelligence

1. Many organizations struggle to identify where traffic originated once it reaches security and monitoring tools, particularly in large networks.
2. Using Mahlet's hardware-based VLAN tagging capabilities, traffic can be tagged based on its physical ingress and egress ports as it passes through the L1FEguard platform.
3. The tagged traffic is then delivered to a Garland Technology Packet Broker, where it can be stripped of the header, filtered and load balanced before sent to security and monitoring tools.



About Mahlet

Mahlet provides communications infrastructure visibility solutions that directly integrate with NOC/SOC tools to enhance network performance monitoring and strengthen cybersecurity. Our L1FEGuard optical monitoring platform delivers high-value insights that other tools miss: deep optical signal telemetry, in-band management traffic, higher layer protocol de-tunneling, and rich metadata from raw OTN, SONET/SDH, and high-speed Ethernet traffic. These capabilities uncover hidden threats, enrich downstream tools with clean packet streams, reduce troubleshooting time, and improve overall network resilience - all without impacting live traffic. To learn more about how Mahlet is pioneering infrastructure visibility, visit <https://www.mahlet.net>.

About Garland Technology

Garland Technology is an industry leader of IT and OT network solutions for enterprise, critical infrastructures, and government agencies worldwide. Since 2011, Garland Technology has been engineering and manufacturing simple, reliable, and affordable Network TAPs and Network Packet Brokers in Richardson, TX. For help identifying the right IT/OT network visibility solutions for projects large and small, or to learn more about the inventor of the first bypass technology, visit GarlandTechnology.com.



Have Questions?

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See every bit, byte, and packet.*