



Garland Technology Provides Complete Access for Network Performance Management

Together the two solutions enable end-to-end visibility to detect and resolve network and security performance issues fast, and improve service performance.

100% NETWORK ACCESS AND VISIBILITY

Garland Technology's Test Access Points (TAPs) collect and send 100% of the live wire data, allowing real-time analysis on data flow, transactions and sessions. It gives you the information you need to spot anomalies, make policy changes and eliminate the risk of oversubscribed SPAN ports.

This information can then be used by Alluvio AppResponse, continuous full packet capture and with easy-to-use analysis modules for network forensics, application analytics, web transactions, unified communications and database analysis.

The Alluvio Network Performance Management (NPM) platform provides a comprehensive coverage, combining and unifying performance monitoring across network flow, packet, and infrastructure. Alluvio NPM collects data from all domains, all the time. This integrated visibility is the only way to address all of the potential problem sources and ensure high-quality digital experiences.

The ease of the plug-and-play architecture of Garland Technology and the Alluvio Network Performance Management (NPM) Platform deploy seamlessly in complex environments, providing network administrators with the vital insight they need to proactively and effectively ensure network and applications availability.

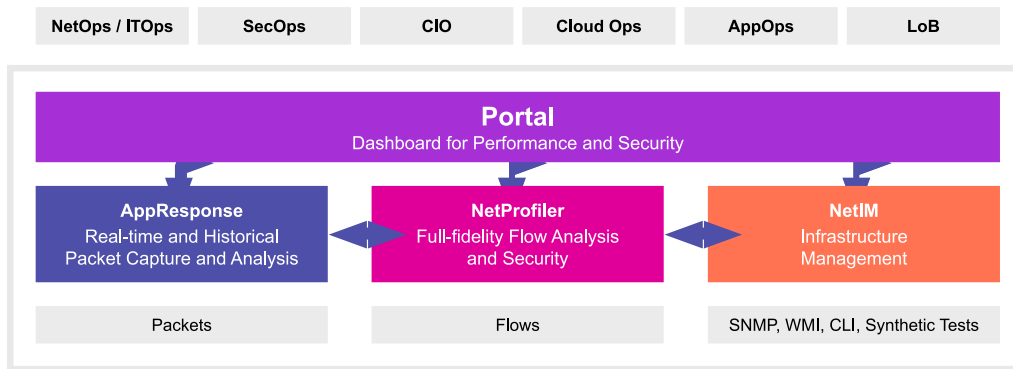
BENEFITS

- Reliable connectivity for Alluvio NPM products ensuring 100% traffic visibility
- Test and certified network TAPs in 1G/10G/40G/100G speeds
- Make policy changes based on live, real-time data
- Eliminate risk of oversubscribed SPAN ports
- Flexible, scalable form factors from small, portable, to high density data center solutions
- 100% secure and invisible, no IP or Mac address - cannot be hacked

Comprehensive Portfolio

Unified visibility across packet, flow and device metrics

Unified Network Performance Monitoring



Alluvio NPM products provide a complete picture of the health of your network, but monitoring tools are only as good as the information they are receiving. Garland's Network TAPs are purpose-built appliances that provide the passive access to packets that Alluvio NPM products depend on.

Figure 1: This is an example of a network architecture with Alluvio NPM solutions supported by Garland TAPs and Aggregators

LOCATIONS TO TAP

TAP THE WAN

Using a Garland TAP between the ethernet handoff and the gateway router will provide visibility into the traffic coming in from a WAN, Metro Ethernet, or data encapsulated with MPLS labels. This un-processed traffic will offer a baseline dataset that can be used against processed traffic to determine the efficiency of security tools on the network.

MANAGEMENT NETWORK

Garland's PacketMAX™ Advanced Aggregators are devices that collect and distribute the monitoring traffic from the TAPs to Alluvio AppResponse. Advanced Aggregators are also capable of pre-filtering traffic prior to sending to multiple monitoring tools for advanced filtering or take the place of packet brokers in applications where simple aggregation and L2-L4 filtering is required.

TAP THE INSIDE

While the edge of the network is important, a Garland TAP placed on the inside will also provide valuable information. Tapping the connection to servers will grant visibility into who or what is establishing connections to which server. This information can be used to determine when network and server upgrades may be needed or even used to prevent internal threats that never reach the edge.

TAP THE EDGE

The edge of the network handles the routing and security of both ingress and egress network traffic. This is a critical point in the network where network intrusions are stopped, malware is blocked, and bandwidth statistics are gathered. Garland's EdgeLens® fail-safe bypass TAP in this location will increase the resiliency of the network edge by preventing the security appliances from becoming a point of failure, while providing Alluvio NPM visibility into this important area.

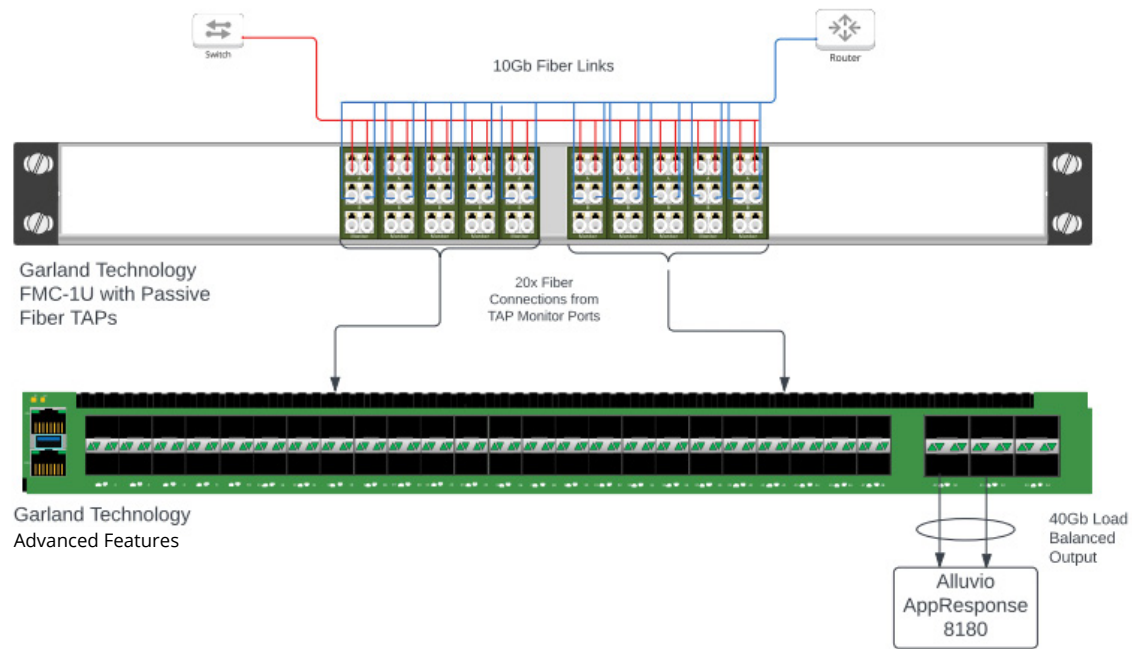
TAP THE ACCESS LAYER

If the Distribution layer gives a total view, the access layer will provide a more detailed and granular view typically used in troubleshooting cases. At this layer a Garland TAP can provide specific information on individual users, workstations, or VoIP connections. While this information can be aggregated to Alluvio appliances at higher levels of the network, tapping the access layer on a need-to-know basis grants visibility into an area with a considerably more manageable and targeted dataset that can be viewed using Alluvio NPM.

TAP THE DISTRIBUTION LAYER

Using Garland TAPs with distribution layer switches will give an aggregated view of specific areas of your organization. If different departments are separated by network segments, a TAP can provide insight into bandwidth and application usage on a large scale in the Alluvio platform.

TAP YOUR ALLUVIO



This example shows how Alluvio AppResponse can obtain monitor streams from multiple 10Gb network links.

By using Garland's high density, modular fiber network TAPs, the traffic going over 10 10Gbps multimode network links can be unobtrusively copied, bit-for-bit. The passive fiber TAP is a breakout TAP meaning each direction of traffic will generate its own monitor link, eastbound traffic out Port C and westbound traffic out Port D. The 20 10Gb monitor links generated from the TAP would then be terminated into the Garland Advanced Features box, which then load balances the output to the Alluvio AppResponse 8180.

About Riverbed

Riverbed is the only company with the collective richness of telemetry from network to app to end user, that illuminates and then accelerates every interaction, so organizations can deliver a seamless digital experience and drive enterprise performance. Riverbed offers two industry-leading portfolios: Alluvio by Riverbed, a differentiated Unified Observability portfolio that unifies data, insights, and actions across IT, so customers can deliver seamless, secure digital experiences; and Riverbed Acceleration, providing fast, agile, secure acceleration of any app, over any network, to users anywhere. Together with our thousands of partners, and market-leading customers globally – including 95% of the FORTUNE 100 –, we empower every click, every digital experience. Riverbed. Empower the Experience.

About Garland Technology

Garland Technology is a US based manufacturer of network TAPs, Network Packet Brokers, and Inline Bypass solutions. We engineer, manufacture, and support our hardware solutions in Richardson, TX. Since 2011, we've been helping companies' network monitoring and security tools deliver on their promise of performance and protection because we reliably deliver all of the data the tools need to shine. For help with projects large and small, including installations, upgrades, and streamlines, or to learn more about the inventor of the first bypass technology, visit [GarlandTechnology.com](https://www.GarlandTechnology.com).



Have Questions?

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See every bit, byte, and packet®