

Comprehensive Network Security Through Total Visibility into any Encrypted Traffic

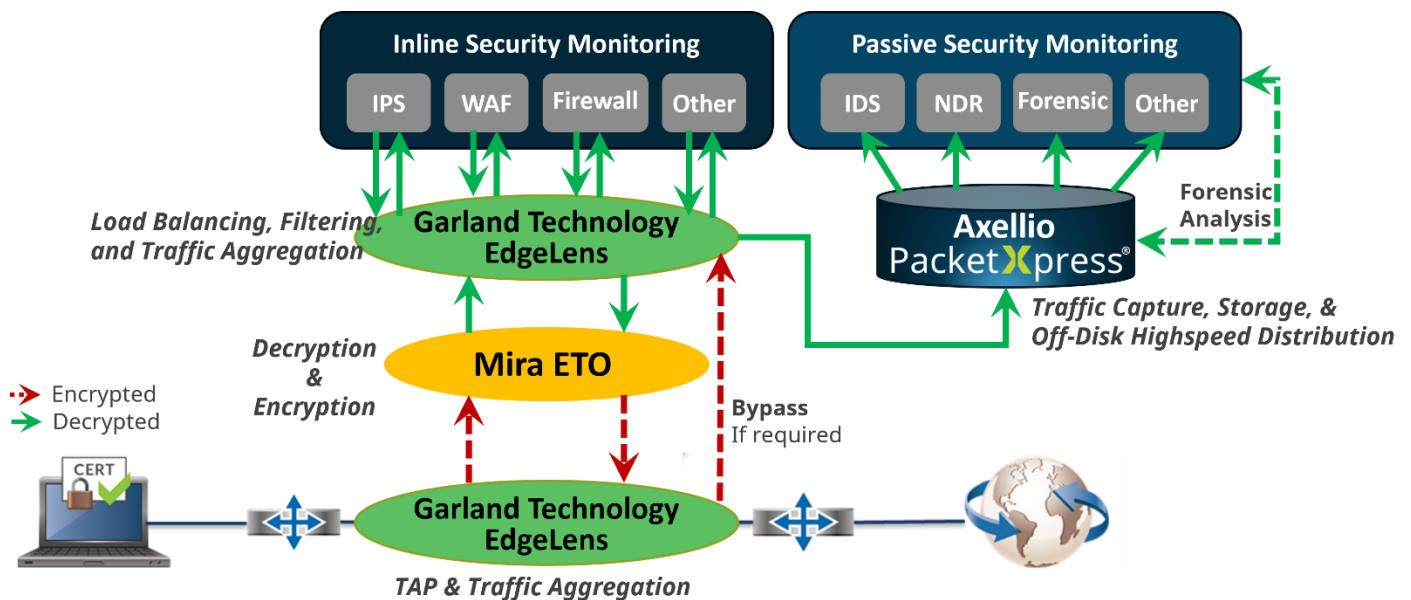
The latest encryption protocol TLS 1.3 is significantly more complex to decrypt and analyze traffic for security, a task now more critical than ever amid growing threats. Axellio, Garland Technology, and Mira Security have joined forces to provide a centralized, scalable, and affordable solution to decrypt the traffic for all your analysis needs while enhancing access to richer event data for forensic analysis.

New TLS Version Creates Significant Visibility Challenges, Increasing Security Risks

As businesses demand end-to-end communication privacy and security, network traffic encryption is widely used today, with over 90% of external (north/south) traffic and over 65% of the internal (east/west) traffic being encrypted. Previous versions of the TLS encryption allowed for some analysis. However, the growing adoption of the latest TLS 1.3 version significantly complicates visibility into the encrypted traffic. And, to make matters worse, threat actors are using this to their advantage and encrypting all their communication, making it impossible to analyze. All of these factors create significant blind spots for security operations by not being able to analyze this encrypted traffic. However, enterprise security teams need visibility into encrypted TLS traffic at scale across their infrastructure, both external and internal, to protect their organizations and ensure that legal and regulatory requirements are met.

Axellio, Garland, and Mira Security – Visibility into Any Traffic Across the Network

The security and complexity of TLS 1.3 makes it too complex to have each monitoring application decrypt their own traffic, as TLS 1.3 requires the decryption application to be inline and be part of the encryption chain. Therefore, Axellio, Garland, and Mira Security have joined forces to provide a centralized, scalable, and affordable solution to decrypt the traffic for all your analysis needs while enhancing access to richer event data for forensic analysis. The combined solution ensures complete network visibility and captures, decrypts, stores, and distributes over 100 Gbps for all your existing security analysis systems without overloading them:



- Garland Technology's innovative EdgeLens® is a hybrid bypass TAP and network packet broker solution that is deployed inline at strategic points in the network to capture essential traffic for analysis.
- Mira Encrypted Traffic Orchestration (ETO) allows decryption of any encrypted traffic reliably and at scale for easy analysis for active and passive security analysis systems.
- Axellio's PacketXpress® provides a high speed, application agnostic, open platform that simultaneously captures, stores, and distributes packets. Its unique architecture ensures that your existing analysis systems will keep up with any traffic rates for real-time analysis and provides critical data for forensic analysis.

Enhance Performance and Effectiveness of Your Existing Security Monitoring Systems

Together Garland Technology, Axellio, and Mira Security will increase the performance and enhance the effectiveness of your existing security and monitoring solutions:

- **Eliminate blind spots:** Allow your security tools to detect traffic that might otherwise be hidden by encryption, decrypting SSL v3, TLS 1.0, 1.1, 1.2, and 1.3, as well as SSHv2. The Mira ETO is a port-agnostic appliance that allows decrypting on more than just port 443.
- **Collect anywhere at any speed:** Collect traffic from the physical ingress-egress, the internal network, to virtual and cloud infrastructure. Guarantee no-loss capture at any speed – from a few Gbps to well over 100 Gbps sustained simultaneous data ingest, recording, and distribution.
- **Adaptive traffic distribution and load balancing across multiple analysis applications:** Distribute traffic at controlled, application consumable rates with no loss. Rewind, replay, re-analyze for repeated in-depth analysis, mitigation validation, and training.
- **Protect your sensitive data:** Mira's ETO rules and filtering options allow you to bypass the decryption of specific categories of traffic and protect sensitive user data.
- **Store for in-depth forensic analysis:** Simultaneous read and write at over 100 Gbps for on-disk-storage for days, weeks, or months to ensure you have all the data surrounding any event – even days or weeks later.
- **Ease of Use:** Easy to install, configure, and integrate with other elements of your security monitoring and analysis infrastructure.

Better Security through Market Leading Technology

Our combined solution provides complete visibility into all encrypted network traffic to fill in the visibility gaps for security devices that do not decrypt their own traffic:

Garland EdgeLens

Garland Technology's innovative EdgeLens® is a hybrid bypass TAP and network packet broker solution. It is purpose-built to give you the power of a bypass TAP to manage the availability of inline tools, instrument high availability (HA) deployments, and tool chaining. It also provides packet visibility for out-of-band/passive tools like threat detection, storage and performance monitoring. As well as providing traffic aggregation, filtering and load balancing due to its packet broker functionality.

Mira Encrypted Traffic Orchestration (ETO)

Mira ETO automatically detects SSL, TLS and SSH traffic and feeds it to one or more security tools that detect and mitigate any threats that may be present. No unnecessary interfaces or software changes are required for the security tools. They receive the decrypted traffic from Mira ETO as if it was traffic directly from the network.

This allows for existing security stacks to regain their effectiveness as these encrypted flows may now be inspected for threats without the need for changes or upgrades to the security stacks.

Axellio PacketXpress

Axellio® PacketXpress® captures, stores, and distributes all network traffic in an extremely small footprint at over 100 Gbps with no loss. PacketXpress unique patented capability is to record traffic on disk while simultaneously distributing and providing access to all data directly from disk for real-time or forensic analysis applications. This enhances the performance, efficiency, and accuracy of your existing security analysis applications by avoiding overload situations resulting in lost data and blind spots. For historical forensic analysis as well as mitigation validation, PacketXpress also replays any pre-and post-event packet data at any speed for in-depth analysis.

About Us



Axellio is an innovator in network intelligence platforms for the Department of Defense, the Intelligence Community, and global security operations. With its 20 years of experience in high-speed, high-volume storage, Axellio leverages the latest storage and server architecture technologies for its innovative network intelligence platform, PacketXpress® to capture, store, analyze, and distribute all network traffic in an extremely small footprint at over 100 Gbps with no loss.

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See every bit, byte, and packet®

Garland Technology believes network visibility should be an easy, seamless experience. We work with our customers to identify their unique environment requirements and deliver packet visibility to improve their security and monitoring solutions, offering the industry's most reliable, economical, and easy to deploy network TAPs, network packet brokers, and inline bypass solutions.

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Mira Security has a global team with strong backgrounds in cybersecurity and networking that have been working on and deploying decryption technology for over 10 years. Our mission is to provide visibility into network traffic as our customers transition to higher speeds and new architectures, and to eliminate the compromise between privacy and security along their journey. We will build lasting relationships with our valued customers and partners and deliver innovative encryption software and products.

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