GARLAND
TECHNOLOGY®
See every bit, byte, and packet® + BLUERIDGE® NETWORKS

Comprehensive Network Visibility and Threat Mitigation for ICS/OT Environments
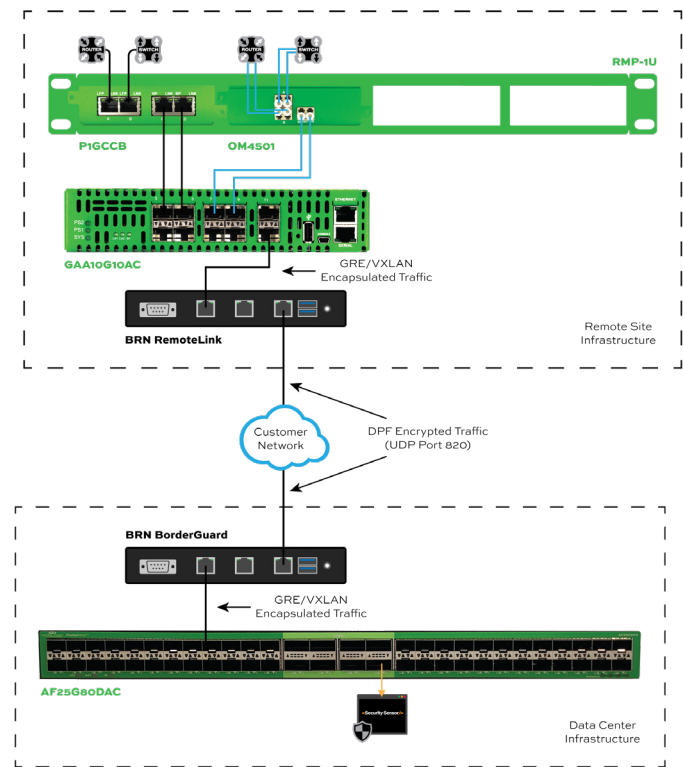
▌Challenge

Digital Transformation within industrial environments, enterprises, and critical infrastructure continues to drive the convergence of IT and OT data, systems, and services. The result is an increase in attack surface, threat vectors, and potential asset exposure, necessitating a comprehensive approach that enhances threat monitoring and threat detection.

Ensuring the security of inherently insecure ICS networks has shifted to the purview of both IT and Security Operations Center (SOC) teams. At issue: Traditional IT security tools and methods are often not adapted effectively to suit OT environment safety, productivity and reliability, rendering them invisible to SOC teams. This invisibility poses significant challenges, including an incomplete inventory of IT/OT assets and an inability to effectively detect, assess, and mitigate the threats and associated risks they pose. To address this issue, organizations must develop a cohesive strategy that combines threat mitigation and threat visibility and monitoring.

How It Works

- Deployed at strategic locations at the remote sites, Garland's Copper and Fiber Network TAPs provide a complete copy of the network traffic.
- Tapped network feeds plus SPAN/Mirror feeds are then aggregated by a Garland Packet Broker before being encapsulated via GRE or VXLAN.
- Powered by Blue Ridge's patented technology DPF (Data Privacy Facility), CyberCloak™ isolates, conceals, encrypts, and authenticates network communications, securing traffic end to end, in a zero-trust context.
- Within the data center infrastructure, traffic flows back into a separate Packet Broker to send onwards to various security and monitoring tools.
- The BorderGuard is the root of trust and the secure connection controller for all data and management plane communications. It serves as the backbone of the LinkGuard solution. It can handle multiple LinkGuard Clients, RemoteLink, and EdgeGuard connections.
- A RemoteLink is a plug-and-play client device that creates secure enclaves. Using crypto-ignition tokens, A RemoteLink securely connects local devices or network segments over any communication medium to the rest of the enterprise via connection to one or more BorderGuards.

Garland Technology + Blue Ridge Networks Tech Partner Solution Brief   GarlandTechnology.com/blue-ridge-networks

LinkGuard CyberCloak and Garland Technology Joint Benefits

- Cloaking of critical infrastructure OT systems within LinkGuard-enabled Zero Trust secure enclaves.
- Encrypted secure communications only from authorized devices and users within secure enclaves.
- Reduces network complexity. Integrates seamlessly with existing network infrastructure.
- Agnostic to transport and communications protocol, 100% packet visibility across the OT/ICS network.
- Data Diode functionality built into Network TAPs guarantees unidirectional traffic.
- Easy to deploy, manage, operate, rapid scalability and compatibility, cost effective and efficient operations.

Blue Ridge Networks & Garland Technology

Together, Blue Ridge's LinkGuard and Garland Technology's solutions deliver an integrated, multilayered defense that unifies network and endpoint security. This comprehensive approach reduces the attack surface, minimizes cyber risk, and strengthens overall resilience, empowering organizations to take a proactive stand in safeguarding critical operations.

About Blue Ridge Networks

Blue Ridge Networks, Inc., (BRN) is a recognized leader in providing advanced zero-trust segmentation and secure access cybersecurity solutions that dramatically reduce the cyberattack surface and vulnerabilities to potential breaches. CyberCloak™ utilizes BRN patented methodologies to isolate, conceal, encrypt, and authenticate network communications in a zero-trust context. Solutions built and deployed on the CyberCloak™ foundation have consistently proven to be the most resilient, compatible, least disruptive, and cost effective to deliver high assurance cybersecurity protection. For more information on Blue Ridge's technology, visit BlueRidgeNetworks.com.

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, Texas. 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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