

Intro | Agenda

- 1. Introduction to Garland
- 2. TAP vs SPAN
- 3. Product Review
- 4. Tech partners
- 5. Solutions
- 6. Partner Portal
- 7. Design-IT



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Garland Technology

Providing the Visibility Foundation

Network Administrators and SecOps team need to ensure that the data being fed into their analytic and security tools is complete and accurate.

Garland Technology specializes in providing the products needed to deliver every "bit, byte & packet" to the monitoring and security tools, on-prem or in the cloud.



Garland Technology is global





New York | Texas | UK | Poland | Australia



Deployed in every vertical





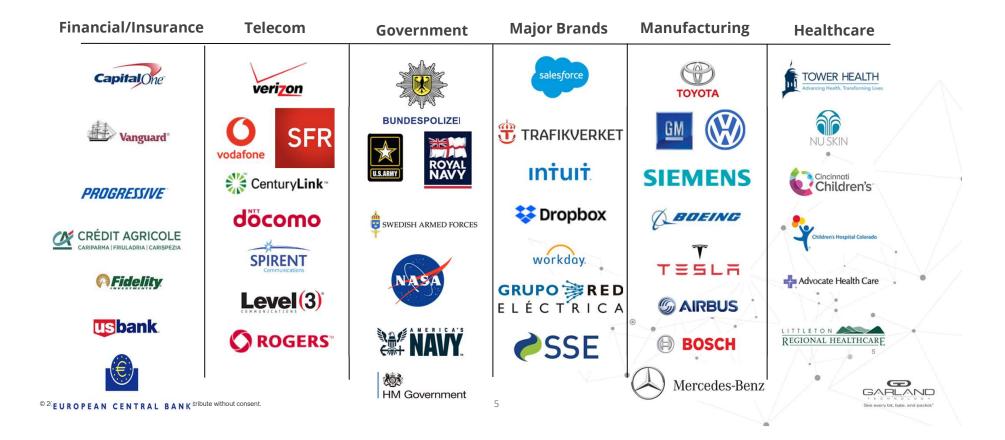






Telcos • Government • Healthcare • Defense • Manufacturing • Financial • Retail • Energy • Entertainment • Technology • Pharmaceuticals • Education • Transportation • Gaming • Any enterprise IT network

Who has gained visibility with Garland



Your 360°

Network Visibility Fabric

Starts with Garland Technology



Physical Layer TAPs

- 100% visibility for out-of-band monitoring tools
- Continued development [First to release OM5, customized solutions]



Purpose-built Packet Brokers

- Aggregation layer supports filtering, aggregation, and load balancing
- Advanced features support deduplication, packet slicing, time stamping and more



Inline Edge Security

- Reduce the risk of downtime
- Adds resiliency and peace of mind
- Innovative Inline hybrid packet broker



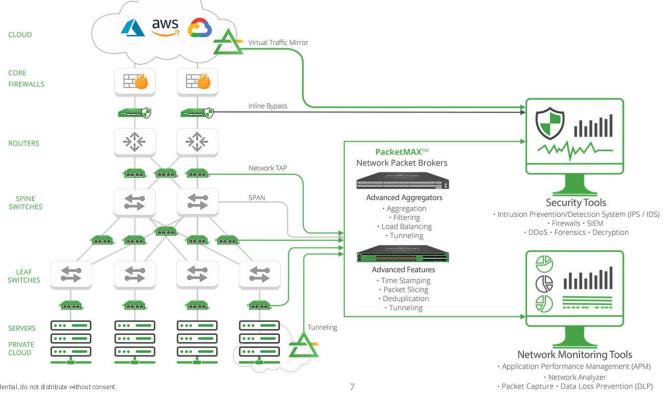
Cloud

- Private
- Public



Scalable visibility fabric for your architecture

Eliminate network and security blind spots, while adding resiliency and high performance for both inline and out-of-band environments



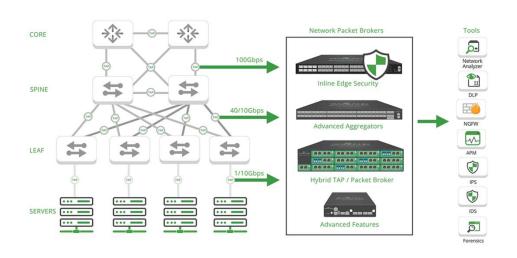


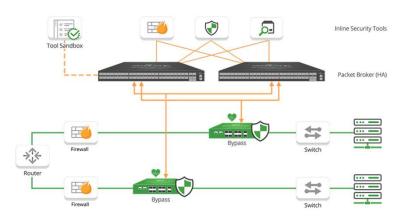
Scalable visibility fabric for your architecture

Eliminate network and security blind spots, while adding resiliency and high performance for both inline and out-of-band environments

Out-of-Band / Passive

Inline / Active





Two Ways to Mirror Traffic

TAP

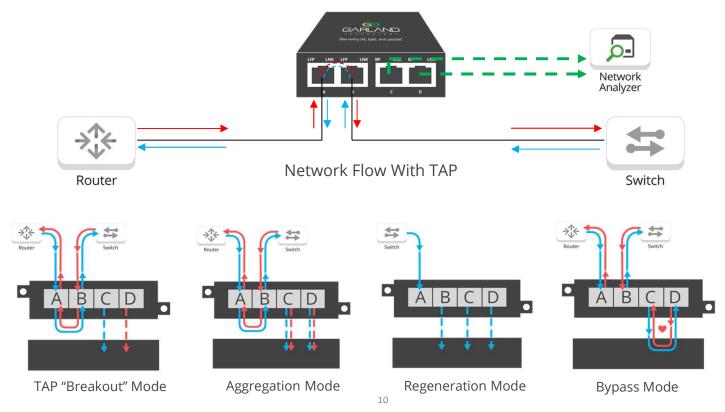
- Does not drop packets, regardless of bandwidth
- Plug & Play, set-up once and never touch again
- Does not alter the time relationships of frames
- Does not impact the live network while monitoring

SPAN

- Packets are dropped when ports are oversubscribed
- Easily misconfigured or turned off
- Can change the timing of the frame interactions
- Degrades performance of live network

Network TAPs 101

Provide 100% access & visibility



GARLAND

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Garland's Extensive Network TAP Portfolio

Supporting a variety of media, speeds and form factors. Whatever your requirements are, we have a TAP for that.

Passive Fiber TAPs	Copper TAPs	RegenTAPs	Aggregator TAPs	XtraTAP™
			aveno	
1G/10G/25G/40G/100G	10/100M & 10/100/1000M	1G/10G	100M/1G/10G	10/100M & 10/100/1000M
Single-mode Multi-mode MPO/MTP® BiDi [Cisco BiDirectional]	• RJ45 • 2 Mighty Mouse 10/100M	Single-modeMulti-modeSFP+	• Single-mode • Multi-mode • RJ45 • 100Base-FX	• Single-mode • Multi-mode • RJ45
-Portable -High Density 1U -High Density Modular 1U	-Portable -1U or 2U Chassis -Military-Grade Industrial Network TAP	-Portable, ½ U Chassis -High Density 1U -High Density Modular 1U	-Portable, ½ U Chassis -1U or 2U Chassis -handheld "mini"	-Portable -1U or 2U Chassis -2U holds up to 12 TAPs
-OM1/OM2/OM3/OM4/OM5 -OM5 fiber supports SWDM	-Failsafe -Supports LFP, LSS and PoE -Plug and play / hot swappable	-Failsafe, OEO, Passive -1x5, 1x3 -Tap + aggregation in one	-Failsafe -4x1 or 4x2 -Media conversion	-Failsafe -Port-to-Port Aggregator with port mapping filtering -Packet slicing and packet injection

Garland's Network Packet Broker Portfolio

Deploy what you need, when you need it, and enhance your existing infrastructure

PacketMAX TM Advanced Aggregator	PacketMAX TM Advanced Features	PacketMAX TM Advanced Features Dedup	EdgeLens® Inline Security Packet Broker
1G/10G/25G/40G/100G	1G/10G/40G/100G	10G	1G/10G/40G
• RJ45 • SFP/SFP+ • QSFP+ • QSFP28	• RJ45 • SFP/SFP+ • QSFP+ • QSFP28	• SFP+	• Single-mode [m] • Multi-mode [m] • SFP/SFP+ [n]
1U or 2U Chassis	1U Chassis	½ Rack Chassis	-1U Chassis / ½ Rack
-Filtering, Aggregation and Load Balancing -Start and Terminate GRE and L2GRE Tunnels -2k filters -No additional per-port license fees	-Time stamping -Packet Slicing -GRE / ERSPAN Termination -Hash-based Round-Robin load balancing and -High Density filtering, aggregation & load balancing	-Large window deduplication -FPGA Based design for increased flexibility	-Heartbeat/Failsafe Technology -Filtering, Aggregation and Load Balancing -Deploy multiple inline, active security tools -High Availability (HA)



Technology Partnerships

Our TAP to Tool™ philosophy empowers the solution by architecting to the tool



















































































How Garland Technology works with your Monitoring Solutions

Deploying or managing one of these tools?







Capture









6-





信

SIEM











Content





Work with any of these companies?









NETFORT

Edge-corE







CYPHORT.





Ouantea









LiveAction



performance vision















Recommended Garland Products



Breakout Network TAPs

• Passive Fiber & Copper

Aggregator Network TAPs

• UniversalTAPs

Xtra TAPs

• All-in-1 Advanced Filtering TAP



Advanced Aggregators

• High Density filtering, aggregation and load balancing

Advanced Features

• DeDup, time stamping

Hybrid NPB System

- Under 200 Ports
- Inline Security



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How Garland Technology works with your **Security Solutions**

Deploying or managing one of these tools?





NGFW

WAF





IPS





DLP









Packet Injection

Work with any of these companies?



















ForeScout









Recommended Garland Inline Edge Security Products



EdgeSafe: Bypass TAPs

- Failsafe & heartbeat technology
- 1G/10G/40G/100G

EdgeLens® In-line Security

Hybrid Packet Broker



Network Packet Brokers

Advanced Aggregators

• High Density filtering, aggregation and load balancing

Advanced Features

• DeDup, time stamping

Hybrid NPB System

• Under 200 Ports



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Ideal Customer Profile



Organization Size

250-500+ employees Mid Size Enterprise (1000+) Global Enterprise (5000+)



Verticals

Healthcare Retail Finance High Tech Industrial/Utilities Federal/SLED





Physical Environments

On-prem Data Centers Campus networking/security requirements



Cloud Environments

Public Private Hybrid



Targets

Network Engineer Network Architect Security Engineer Security Architect IT Manager IT Director Cloud Architect CTO/CIO/CISO/VP of IT



Reseller Positioning



SMB Focused

FieldTAPs
Portable TAPs
EdgeLens Focus
Small packet brokers



Enterprise

Traditional VAR

Network TAPs Advanced Aggregators Advanced Features EdgeLens/EdgeSafe Prisms



Online Reseller

FieldTAPs Copper Breakout TAP



Security Focused

EdgeSafe Bypass TAPs EdgeLens Advanced Features Advanced Aggregators



Identifying an Opportunity Two points of entry

Network Operations (NetOps)

- Improved Enterprise IT productivity
 - (Source: Enterprise Management Associates (EMA) research - 38% of Enterprise respondents)
- Improved responsiveness to business needs and faster delivery of services
 - (Source: EMA research 28%)
- Accelerated detection of incidents
 - (Source: EMA research 26%)
- Opportunity indications
 - Network outages
 - Performance concerns
 - Network infrastructure upgrades

Secure Operations (SecOps)

- Network blind spots are a major obstacle to data protection
 - (source: VansonBourne survey 67% of respondents)
- Accelerated detection of security incidents
 - (Source: EMA research 26%)
- Reduction in security/operational costs
- Opportunity indications
 - Multiple inline security tools NGFW, IPS, DLP, WAF, Ddos gateway, En/Decryption appliances
 - Current/future Behavior Analysis or Forensic tools
 - Concerns about security breaches



3 Talking Points

Customers can't monitor, manage or protect what they cannot see



- If the network does not perform, neither will your business
- You can't protect what you can't see



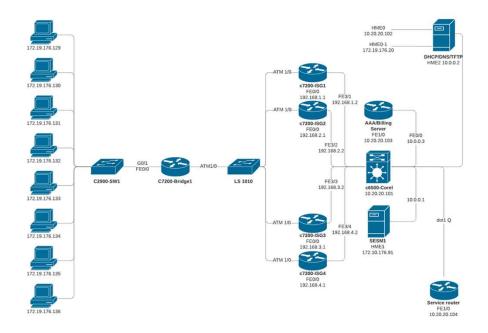
• A network visibility fabric can reduce costs





Security/Monitoring Fabric

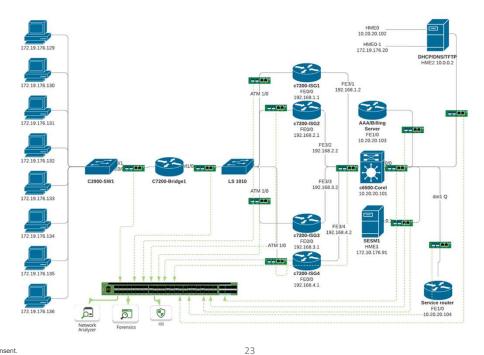
Providing Visibility to ensure Performance & Security





Security/Monitoring Fabric

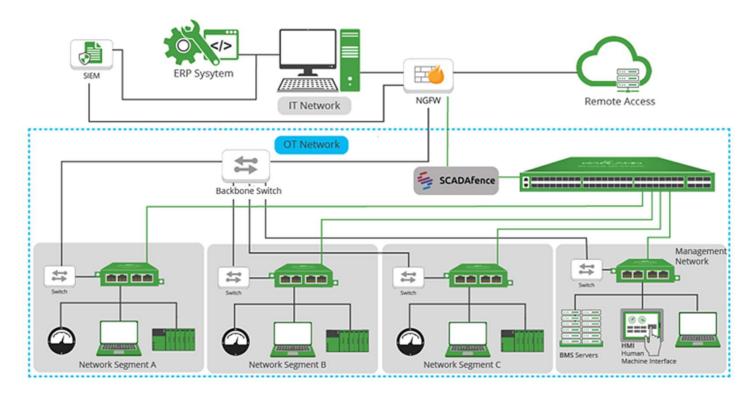
Providing Visibility to ensure Performance & Security





SCADAfence

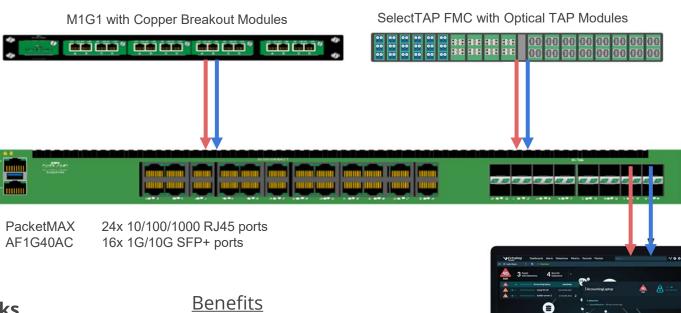
Continuous Monitoring for Industrial Environments





Medium sites

TAP + Aggregation 1-100G Monitoring



TAP many links

- 1/10/25/40/100G Fiber TAP
- 10/100/1000M Copper TAP
- Aggregate many links
- Advanced features
- Minimal Tool ports
- Reduce complexity





Large sites

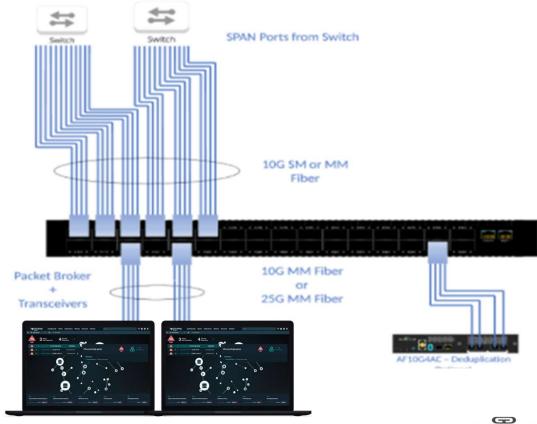
TAP + Aggregation 1-100G Monitoring

10G links

- Aggregate many TAP links
- Aggregate many SPAN links

Benefits

- 100% wire data visibility
- Advanced aggregation and load balancing
- Deduplication
- Load balance 25G links to Tool
- Media Conversion





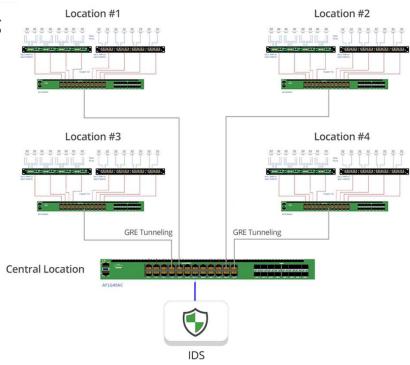
Multi-location Intrusion Detection Solution

Providing Visibility and Reducing Network Complexity

An example solution with a single IDS monitoring multiple locations

Solution: A combination of Network TAPs and PacketMAX packet brokers deployed throughout the network, feeding back to a central location.

- Reduce costs, complexity and administrative overhead
- Enable infrastructure upgrades
- Improve effectiveness of tool performance



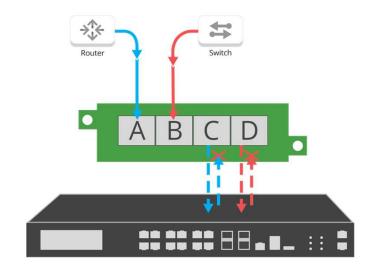
Infrastructure Protection

Providing added Visibility for Airgapped Unidirectional Pathways

Secure out-of-band analysis

Solution: Data Diode TAPs:

- Disallows bidirectional traffic to protect against back flow of traffic into the network
- Secure TAPs do not have a IP address, or MAC address and cannot be hacked.
- Protects additional source of data streams like switch SPAN ports and network links
- Network traffic control is enforced at the physical level





Connecting Inline Security Devices

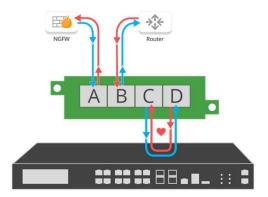
IT Security Solutions Use Case

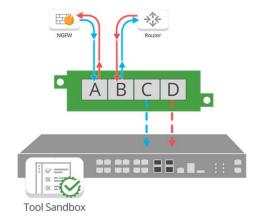
Challenge: Managing the risk of downtime is a critical consideration when deploying security tools.

- Device failures can bring down the network
- Deploying new technologies into the network
- Scheduling off hour planned downtime

Solution: Bypass TAP "inline lifecycle management"

- Easily take tools out-of-band for updates, installing patches, maintenance, or troubleshooting
- Simplify tool piloting and deployment
- Administrative isolation
 - No maintenance windows
 - Reduced network impact and downtime







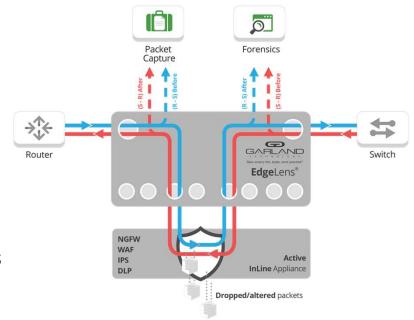
Optimizing Inline Tool Performance

IT Security Solutions Use Case

Challenge: How to troubleshoot inline tools (IPS, firewalls etc) are configured and optimized properly.

Solution: Before and After Optimization & Validation allows you to provide visibility to out-of-band packet capture, storage and analysis tools

- Analyze packet data before and after your inline device to ensure optimal tool performance to validate any updates or troubleshoot why threats weren't blocked
- Enable real-time proof-of-concept evaluations without impacting the network
- Validate tool changes or updates are configured properly





Ensuring Availability

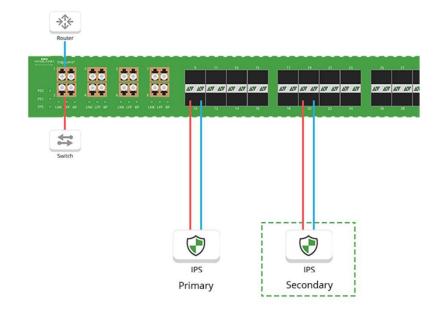
Ensuring Complete High Availability (HA) Redundancy for Critical Links

Large financial corporation ensured all critical links with Garland's HA redundancy so there is no business interruption or downtime, while protecting sensitive data.

Solution: Garland's EdgeLens deployed redundant IPS tools in an active standby scenario.

- One primary or "active" IPS
- And a secondary or "passive" IPS

In the event the primary appliance goes down, the secondary appliance will automatically take over as primary.





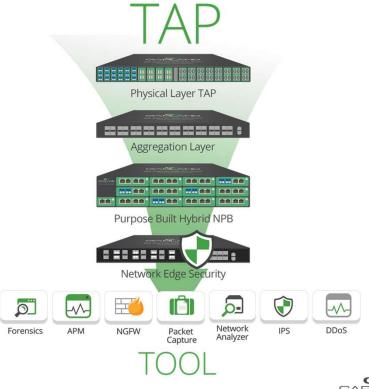


Two Approaches to Your Cybersecurity Profile

What makes Garland Difference





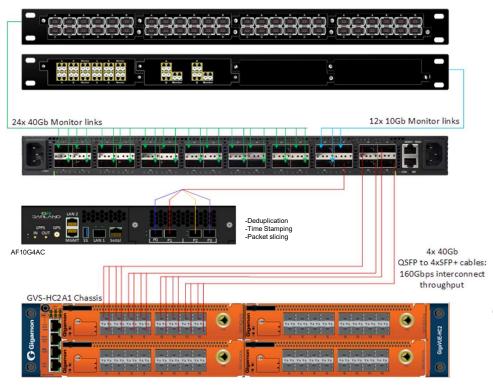


The Garland Advantage

- Customers buying Gigamon & Keysight IXIA NPB's pay a premium product price on the premise that one day they might one day need premium features
- Simple to specify & configure
 - No hidden license costs
 - MSA compliant transceiver support
- Ability to address the full market from midsize to large enterprise
- Significant price/performance advantage
- Full standard discount on maintenance renewals



How Garland works with your existing investment



Upgrading current deployment to 40G

By using Garland's PacketMAX TM : Advanced Aggregator:

- Tapped traffic can be aggregated to fully utilize each monitor link.
- Allows the packet broker to make the most out of each port.
- Less ports on the packet broker will be needed leading to less expensive modules/licenses will be required, which will save the customer money and extend the lifespan of the packet broker.

Adding the PacketMAXTM: Advanced Features for dedup, packet slicing, GRE tunneling and time stamping significantly reduced processing overhead and licensing fees.

Value: Save money, added value

- · Less licenses needed, reduces cost
- Open Vendor transceivers/optics, no vendor lock-in

Savings Example

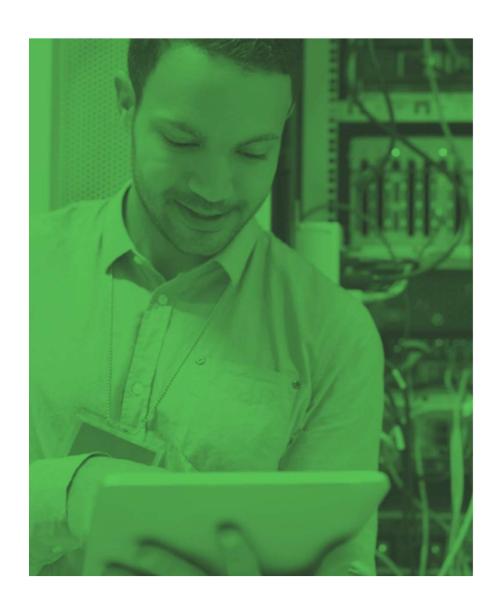
Capital Expenditures

Garland offers the same functionality at a single purchase cost, no additional licenses or fees for more features.

O&M Spend

Competitor's deduplication add-on license to the overall solution cost upwards of \$20,000 a year, every year.

Garland never charges a license fee for any advanced functions.

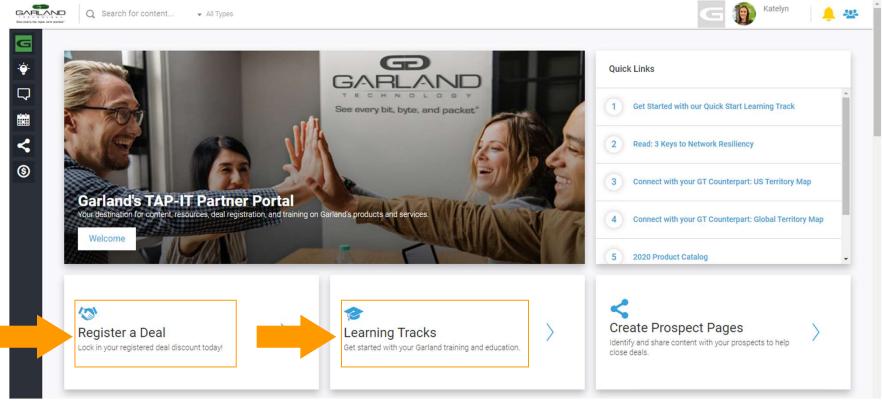


The Garland Difference

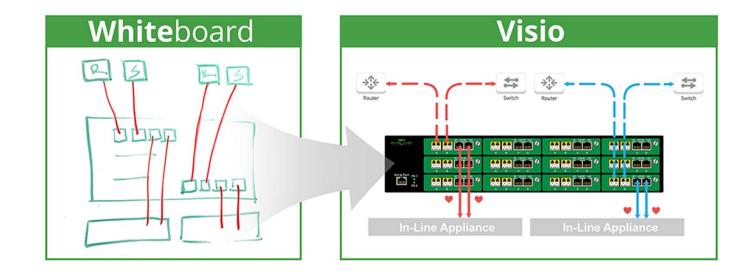
- Clear & Consistent Strategy
 - 100% focus on network visibility products
 - Customer focused
 - 100% channel driven
- High Quality Products
 - Manufactured in the USA
- Scalability
 - Industries' largest & highest density TAP portfolio
- Flexible, Agile and Economical
 - Open approach
 - Custom solutions
 - Responsive to the needs of our customers & partners
- Innovative
 - CTO invented Bypass technology
 - Deconstructed Packet Broker architecture
 - Next generation Hybrid Packet Brokers



Partner Portal



Design-IT: Network Consultation





Thank You



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See every bit, byte, and packet®