GARLAND
TECHNOLOGY
See every bit, byte, and packet®

CRUISING WITH CONFIDENCE:
# Navigating Network Visibility at Sea

▌Challenge

A leading cruise line operating a fleet of luxury ships needed to solve a unique visibility challenge. Each vessel hosted a complex IT infrastructure, having to support guest Wi-Fi, onboard point of sale systems, navigation, and critical safety systems. In order to fully maintain cybersecurity compliance and real time threat detection, the cruise line needed to deploy a centralized Network Detection and Response (NDR) solution. However, the overall architecture lacked an efficient method to aggregate and forward traffic from multiple, distributed network segments throughout the ship to the NDR tool.

▌The TAP to Tool™ Solution

1. Cruise ships operate as highly distributed networks, with critical devices and systems spread across multiple decks and compartments. Each of these systems generates valuable network data that needs to be monitored to ensure both security and operational efficiency. However, capturing and consolidating this traffic without overloading the NDR was a major hurdle.

2. With numerous network segments across the ship requiring visibility, the cruise line needed a way to aggregate traffic from various systems back to the central NDR. Garland Technology proposed of a simple, scalable, and easy-to-deploy solution using a combination of TAP Aggregators, SPAN Aggregators, and a Network Packet Broker.

3. By strategically deploying TAP and SPAN Aggregators throughout the vessel, the cruise line was able to capture traffic from all necessary sources and send it to a centralized Packet Broker. The Packet Broker orchestrates traffic from multiple sources, enabling filtering, load balancing, and deduplication, which ensures all relevant data is delivered to the NDR, without duplication.

4. The result is a streamlined visibility architecture that delivers 100% packet level data to the NDR, empowering it to detect threats faster and more accurately. Not only does this approach provide full visibility across a single ship, but it also offers a repeatable blueprint that can be deployed across the fleet. With Garland Technology's recommendation, the cruise line can now achieve consistent, high-fidelity network monitoring across all of its vessels, improving both security and operational insight from bow to stern.

▌Benefits

- Fleet wide visibility
- Scalable architecture
- Optimized NDR performance
- Perpetual access to hardware with no subscription fees
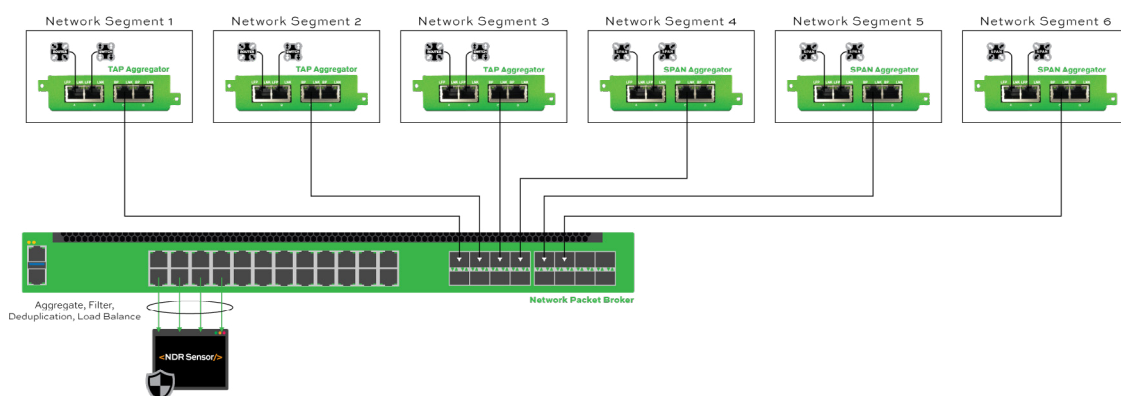
▌Have Questions?

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