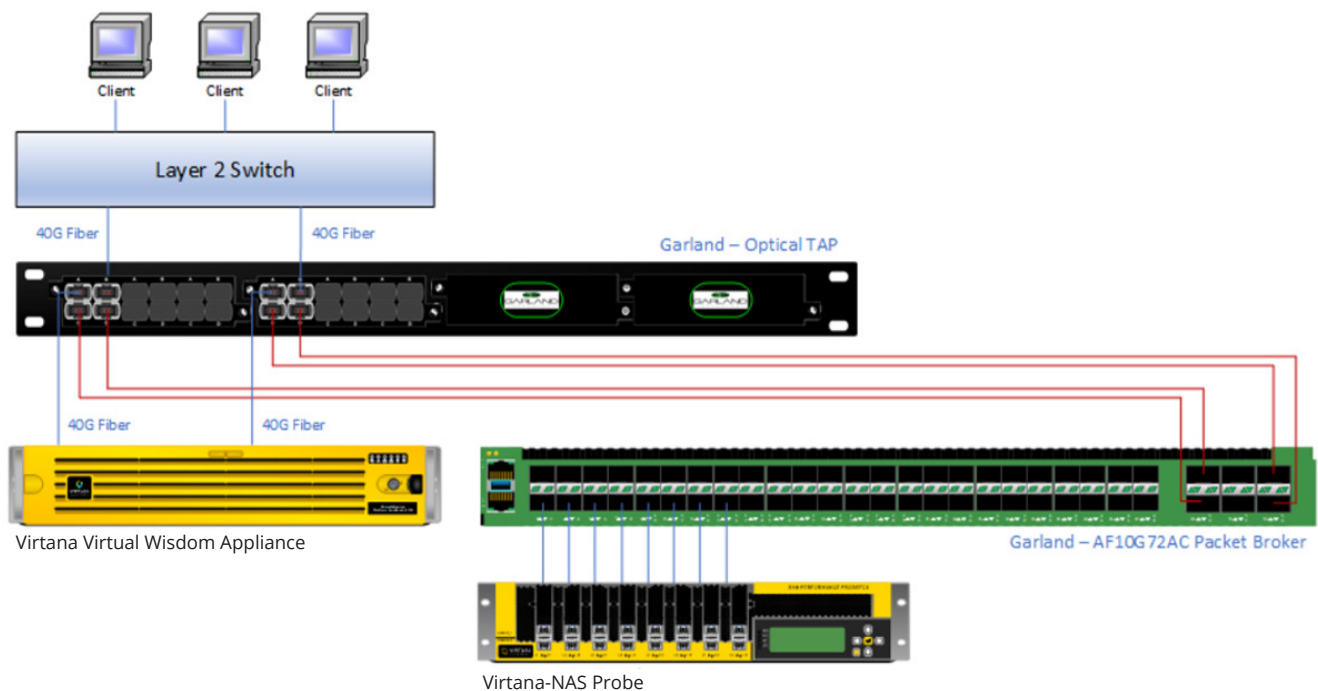# Achieve Dynamic Application Performance with Elevated Network Visibility

Leverage your storage server and data center by gaining traffic visibility for key performance insights and metrics

As a data center continues to scale and evolve, navigating dynamic workloads becomes increasingly challenging. Ensuring the strength of your network with real-time insights can present both performance and costly risks. When performing mission-critical applications, infrastructures must be optimized to accurately monitor and analyze reliable data to support the bandwidth in worst-case scenarios. IT professionals should be equipped to garner network insights and leverage performance monitoring tools to provide the information they can trust to mitigate application performance issues.

How it works

1. Data is driven from the Virtana Virtual Wisdom Appliance through Garland Technology's high-density Optical TAP for 100% packet-level visibility, supporting various split ratio and allowing many ports for scalability of future growth.
2. The mirrored packet traffic is delivered from the TAP to Garland's PacketMAX™ Advanced Features packet broker, where the data is filtered, aggregated, time-stamped, and load balanced.
3. The load-balanced data is then delivered to the Virtana Virtual Wisdom NAS probe to be holistically monitored and analyzed for optimization of hybrid IT infrastructure within the context of the application.

IT Operations and Sec Ops Team Benefits

- Proactive manage insights and metrics via personalized dashboards for each level of the organization.
- Improve collaboration with unified, full-stack and visibility - Break down silos and collaborate across teams with deep visibility across all network, application layers and infrastructures.
- Full visibility across on-premise data centers, private, public (AWS, Azure, Google), or multi-cloud environments.
- Reduce network downtime, improve reliability, reduce costs and gain better device utilization by spreading the load data across multiple tools.
- Native scale and proactively optimize an infrastructure with monitoring data to forecast storage port capacity, detect multipathing issues and provide depth setting for the host.
- Capacity management to align applications dynamically and optimize workload behavior and network performance.
- Enable automated recommendations to leverage workload balancing, simplify problem remediation, and maintain smooth operations.
- Leverage powerful AI-based analytics for deeper and more real-time data to drive better decision-making.

About Garland Technology

Garland Technology is an industry leader delivering network products and solutions for enterprise, service providers, and government agencies worldwide. Since 2011, Garland Technology has developed the industry's most reliable test access points (TAPs) and packet brokers, enabling data centers to address IT challenges and gain complete network visibility. For more information, or learn more about the inventor of the first bypass TAP, visit GarlandTechnology.com or @GarlandTech.

About Virtana

Virtana is a leader in hybrid infrastructure management for mission-critical workloads, providing comprehensive hybrid IT infrastructure monitoring and real-time, AI-powered analytics for the modern enterprise data center. The company's solutions give IT operations teams deep workload visibility and actionable insights into their end-to-end systems that support mission-critical applications. Virtana customers include leaders in enterprise IT, cloud service providers and federal agencies, that are leveraging the company's platforms to maximize the performance, health, and utilization of their hybrid IT infrastructure. The privately-held company is headquartered in San Jose, Calif. For more information, please visit Virtana.com.

Integration Benefits

When extracting and analyzing data from an ethernet storage center, obtaining deep, granular network visibility is crucial to reduce risk, reduce cost, and optimize performance. Virtana's Virtual Wisdom Appliance provides ethernet storage environments to support transaction processing needs. Feeding data at 40g through Garland Technology's purpose-built passive TAPs for complete packet capture, a copy of the network traffic is delivered to the Advanced Feature sequentially load balancing and filtering the data to the Virtana NAS Probe.

Learn More
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